



ANEXA 1

FIȘA DE EVALUARE GENERALĂ A STANDARDELOR UNIVERSITĂȚII

DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTAJE REALIZATE
1. Articole științifice publicate <i>in extenso</i> în reviste cotate <i>Web of Science</i> cu factor de impact	(60 puncte x factor de impact + 25) / număr autori	1784.379
2. Articole științifice publicate <i>in extenso</i> în reviste indexate <i>Web of Science</i> fără factor de impact	20 puncte / număr autori	6.5
3. Articole științifice publicate <i>in extenso</i> în reviste indexate BDI	15 puncte / număr autori	5.5
4. Articole științifice publicate <i>in extenso</i> în volumele conferințelor	indexate ISI: 30 puncte / număr autori	
	indexate în BDI: 15 puncte / număr autori	
	alte categorii: 5 puncte / număr autori	
5. Cărți științifice publicate (doar prima ediție)	edituri academice internaționale: 100 puncte la 100 pagini / număr autori	
	alte edituri internaționale: 70 puncte la 100 pagini / număr autori	19.25
	edituri academice naționale: 50 puncte la 100 pagini / număr autori	
	alte edituri naționale: 20 puncte la 100 pagini / număr autori	2.8
6. Cărți științifice traduse și publicate în edituri din străinătate	100 puncte la 100 pagini / număr autori	
7. Coordonarea și editarea de volume, traduceri și antologii	edituri academice internaționale: 60 puncte / număr autori	
	alte edituri internaționale: 40 puncte / număr autori	
	edituri academice naționale: 30 puncte / număr autori	
	alte edituri naționale: 15 puncte / număr autori	
8. Articole publicate în dicționare și enciclopedii	edituri academice internaționale: 30 puncte / număr autori	
	alte edituri internaționale: 20 puncte / număr autori	
	edituri academice naționale: 15 puncte / număr autori	
	alte edituri naționale: 5 puncte / număr autori	
9. Contracte de cercetare științifică în instituții academice (universități, institute ale Academiei Române, institute naționale de cercetare, institute de cercetare din străinătate, alte categorii de institute academice)	contracte internaționale – director: 100 puncte pentru fiecare 100.000 Euro	
	contracte internaționale – membru: 100 puncte pentru fiecare 100.000 Euro / numărul membrilor echipei de cercetare	
	contracte naționale – director: 50 puncte pentru fiecare 500.000 lei	44.57



DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTAJE REALIZATE
	contracte naționale – membru: 50 puncte pentru fiecare 500.000 lei / numărul membrilor echipei de cercetare	168.271
10. Contracte de cercetare în mediul de afaceri și sectorul public	organizații internaționale: 100 puncte pentru fiecare 100.000 Euro	
	firme multinaționale: 100 puncte pentru fiecare 100.000 Euro	
	firme naționale: 50 puncte pentru fiecare 500.000 Euro	
	organizații administrative naționale: 40 puncte pentru fiecare 500.000 Euro	
	alte organizații publice de nivel național: 30 puncte pentru fiecare 500.000 Euro	
11. Brevete	internaționale: 100 puncte / număr de autori	
	naționale: 30 puncte / număr autori	
12. Citări și recenzii ale lucrărilor științifice	reviste de specialitate din străinătate: (10 + 20 x factor de impact) / număr autori, pentru fiecare citare	6785.47
	reviste de specialitate din țară: (5 + 10 x factor de impact) / număr autori, pentru fiecare citare	
	monografii academice din străinătate: 50 puncte / număr autori, pentru fiecare citare	
	monografii academice din țară: 25 puncte / număr autori, pentru fiecare citare	
13. Lucrări susținute în calitate de invitat la manifestări științifice (conferințe, congrese, simpozioane, seminarii și ateliere de lucru)	străinătate: 25 puncte pentru fiecare activitate	
	țară: 10 puncte pentru fiecare activitate	
14. Profesor/cercetător invitat la universități/institute de cercetare	străinătate: 25 puncte pentru fiecare activitate	125
	țară: 10 puncte pentru fiecare activitate	
15. Editor/Membru în <i>Editorial Board</i> & <i>Advisory Board</i>	reviste cotate <i>Web of Science</i> : editor, 30 puncte pentru fiecare revistă; membru, 20 puncte pentru fiecare revistă	
	reviste internaționale și alte reviste ale Universității: editor, 15 puncte pentru fiecare revistă; membru, 10 puncte pentru fiecare revistă	
16. Premii internaționale obținute printr-un proces de selecție	100 puncte / categorie / număr persoane	
17. Premii ale Academiei Române	50 puncte / categorie / număr persoane	
18. Alte premii naționale ale instituțiilor culturale	20 puncte / categorie / număr persoane	
19. Participări la manifestări	internaționale: președinte comitet	605



DESCRIPTORI	PUNCTAJE ACORDATE	PUNCTAJE REALIZATE
științifice	organizare/consiliu științific, 25 puncte pentru fiecare activitate; membru comitet organizare/consiliu științific, 15 puncte pentru fiecare activitate; moderator de panel, 15 puncte pentru fiecare activitate; raportor pe secțiuni/paneluri, 10 puncte pentru fiecare activitate	
	naționale: președinte comitet organizare/consiliu științific, 15 puncte pentru fiecare activitate; membru comitet organizare/consiliu științific, 5 puncte pentru fiecare activitate; moderator de panel, 5 puncte pentru fiecare activitate; raportor pe secțiuni/paneluri, 2 puncte pentru fiecare activitate	42
	TOTAL	9588.74

Data

BULAI Andreea Georgiana

1. Articole științifice publicate *in extenso* în reviste cotate *Web of Science* cu factor de impact; **12.** Citări și recenzii ale lucrărilor științifice

	Autori	Titlu	An	Jurnal	Volum	Pagina	DOI	Factor impact	Nr. Autori	Punctaj	Citari
1	Tiron V., Jijie R., Dumitru I., Cimpoesu N., Burducea I., Iancu D., Borhan A., Gurlui S., Bulai G.	Piezo-ferroelectric response of bismuth ferrite based thin films and their related photo/piezocatalytic performance	2023	Ceramics International	49	20304	10.1016/j.ceramint.2023.03.154	5.532	8	44.615	
2	Borhan A.I., Ghemes A.I., Husanu M.-A., Popescu D.-G., Borca C.N., Huthwelker T., Radu I., Dirtu A.C., Dirtu D., Bulai G., Lupu N., Palamaru M.N., Iordan A.-R., Ghercă D.	Carbon-based heterostructure from multi-photo-active nanobuilding blocks SrTiO ₃ @NiFe ₂ O ₄ @Fe ₀ @Ni ₀ @C NTs with derived nanoreaction metallic clusters for enhanced solar light-driven photodegradation of harmful antibiotics	2023	Applied Surface Science	622	156987	10.1016/j.apsusc.2023.156987	7.392	14	33.466	
3	Mita C., Cornei N., Bulai G., Dobromir M., Girtan M., Doroshkevich A., Gyorgy E., Mardare D.	The enhancement of the photocatalytic properties of SmFe _{0.7} Co _{0.3} O ₃ thin films by synergistic effect of Sr doping and H ₂ O ₂ as co-catalyst	2023	Ceramics International	49	14225	10.1016/j.ceramint.2023.01.009	5.532	8	44.615	
4	Borhan A.-I., Herea D.-D., Husanu M.-A., Georgeta Popescu D., Nicoleta Borca C., Huthwelker T., Bulai G., Radu I., Constantin Dirtu A., Dirtu D., Mita C., Stoian G., Ababei G., Lupu N., Pui A., Ghercă D.	Straightforward FeOOH nanografting of Al-based SrTiO ₃ perovskite material as core-shell nanoflower-like heteronanostructure with enhanced solar light-driven photodegradation capability	2023	Applied Surface Science	614	156247	10.1016/j.apsusc.2022.156247	7.392	16	29.283	

5	Irimiciuc S.A., Bulai G., Gurlui S.	Rare earth effect on laser produced plasma dynamics during pulsed laser deposition of doped cobalt ferrite	2022	Spectrochimica Acta – Part B Atomic Spectroscopy	198	106565	10.1016/j.sab.2022.106565	3.662	3	81.573	
	Ismail M.M., Shaker S.S., Kamil R.A.	Influence of Pulse Laser Energy on Structural and Magnetic Properties of CoFe ₂ O ₄ and CoLa _{0.01} Fe _{1.99} O ₄ Thin Films	2023	ECS Journal of Solid State Science and Technology	12	33005	10.1149/2162-8777/acc136	2.483			19.887
6	Radu I., Turcan I., Lukacs A.V., Roman T., Bulai G.-A., Olariu M.A., Dumitru I., Pui A.	Structural, dielectric and gas sensing properties of gadolinium (Gd ³⁺) substituted zinc-manganese nanoferrites	2022	Polyhedron	221	115893	10.1016/j.poly.2022.115893	2.975	8	25.438	
7	Irimiciuc S., Zaharia M.G., Cimpoesu R., Bulai G., Gurlui S.O., Cimpoesu N.	On the Deposition Process of Ceramic Layer Thin Films for Low-Carbon Steel Pipe Protection	2022	Materials	15	4673	10.3390/ma15134673	3.748	6	41.647	
8	Tiron V., Ciolan M.A., Bulai G., Mihalache G., Lipsa F.D., Jijie R.	Efficient Removal of Methylene Blue and Ciprofloxacin from Aqueous Solution Using Flower-like, Nanostructured ZnO Coating under UV Irradiation	2022	Nanomaterials	12	2193	10.3390/nano12132193	5.719	6	61.357	
	Motelica L. <i>et al.</i>	Influence of the Alcohols on the ZnO Synthesis and Its Properties: The Photocatalytic and Antimicrobial Activities	2022	Pharmaceutics	14	2842	10.3390/pharmaceutics14122842	6.525			23.417
9	Cocean G., Cocean A., Postolachi C., Garofalide S., Bulai G., Munteanu B.S., Cimpoesu N., Cocean I., Gurlui S.	High-Power Laser Deposition of Chitosan Polymers: Medical and Environmental Applications	2022	Polymers	14	1537	10.3390/polym14081537	4.967	8	40.378	
	Cocean A., Cocean G., Diaconu M., Garofalide S., Husanu F., Munteanu B.S., Cimpoesu N., Motrescu I., Puiu I., Postolachi C.,	Nano-Biocomposite Materials Obtained from Laser Ablation of Hemp Stalks for Medical Applications and Potential Component in New Solar Cells	2023	International Journal of Molecular Sciences	24	3892	10.3390/ijms24043892	6.208			16.770

	Cocean I., Gurlui S.										
	Pahlevanzadeh F. <i>et al.</i>	A Review on Antibacterial Biomaterials in Biomedical Applications: From Materials Perspective to Bioinks Design	2022	Polymers	14	2238	10.3390/polym14112238	4.967			13.668
10	Tiron V., Ursu E.-L., Cristea D., Bulai G., Stoian G., Matei T., Velicu I.-L.	Room Temperature Deposition of Nanocrystalline SiC Thin Films by DCMS/HiPIMS Co-Sputtering Technique	2022	Nanomaterials	12	512	10.3390/nano12030512	5.719	7	52.591	
11	Cocean A., Postolachi C., Cocean G., Bulai G., Munteanu B.S., Cimpoesu N., Cocean I., Gurlui S.	The Origin and Physico-Chemical Properties of Some Unusual Earth Rock Fragments	2022	Applied Sciences (Switzerland)	12	983	10.3390/app12030983	2.838	6	32.547	
	Cocean A. <i>et al.</i>	Nano-Biocomposite Materials Obtained from Laser Ablation of Hemp Stalks for Medical Applications and Potential Component in New Solar Cells	2023	International Journal of Molecular Sciences	24	3892	10.3390/ijms24043892	6.208			22.360
12	Popescu-Lipan L., Les A., Grigoras M., Ababei G., Motrescu I., Bulai G., Brinza F., Creanga D., Balasoiu M.	Antioxidant molecule useful in the stabilization of nanoparticles in water suspension	2022	Soft Materials	20	S76	10.1080/1539445X.2022.2028832	1.619	9	13.571	
13	Baba-Ahmed I., Ghercă D., Iordan A.-R., Palamaru M.N., Mita C., Benamar M.A., Ababei G., Lupu N., Baghdad R., Abderrahmane A., Roman T., Bulai G., Leontie L., Borhan A.I.	Sequential synthesis methodology yielding well-defined porous 75% SiO ₂ /25% NiFe ₂ O ₄ nanocomposite	2022	Nanomaterials	12	138	10.3390/nano12010138	5.719	14	26.296	

	Kadhim A.F., Hashim A.	Fabrication and augmented structural optical properties of PS/SiO ₂ /SrTiO ₃ hybrid nanostructures for optical and photonics applications	2023	Optical and Quantum Electronics	55	432	10.1007/s11082-023-04699-8	2.794			4.706
	Psathas P., Zindrou A., Papachristodoulou C., Boukos N., Deligiannakis Y.	In Tandem Control of La-Doping and CuO-Heterojunction on SrTiO ₃ Perovskite by Double-Nozzle Flame Spray Pyrolysis: Selective H ₂ vs. CH ₄ Photocatalytic Production from H ₂ O/CH ₃ OH	2023	Nanomaterials	13	482	10.3390/nano13030482	5.719			8.884
	Aman S., Ashiq M.N., Kostishyn V.G., Trukhanov S.V., Trukhanov A.V.	Sn-Co co-substituted SrSn _x CoxFe _{12-2x} O ₁₉ strontium hexaferrites: Correlation between chemical composition, magnetic and electrical properties	2022	Journal of Magnetism and Magnetic Materials	564	170207	10.1016/j.jmmm.2022.170207	3.097			5.139
14	Tiron V., Ciolan M.A., Bulai G., Cristea D., Velicu I.-L.	Effect of pulsing configuration and magnetic balance degree on mechanical properties of crn coatings deposited by bipolar-hipims onto floating substrate	2021	Coatings	11	1526	10.3390/coatings11121526	3.236	5	43.832	
	Law M.A. <i>et al.</i>	Evidence for fireballs in bipolar HiPIMS plasmas	2023	Plasma Sources Science and Technology	32	25015	10.1088/1361-6595/acbc97	4.124			18.496
15	Tiron V., Bulai G., Costin C., Velicu I.-L., Dincă P., Iancu D., Burducea I.	Growth and characterization of W thin films with controlled Ne and Ar contents deposited by bipolar HiPIMS	2021	Nuclear Materials and Energy	29	101091	10.1016/j.nme.2021.101091	3.037	7	29.603	
	Flores-Cova L., Broitman E., Jimenez O., Flores-Martínez M.	Tribological behavior of WC/WCN/CNx coatings deposited by high power impulse magnetron sputtering	2023	Journal of Vacuum Science and Technology A:	41	33105	10.1116/6.0002421	3.234			10.669
	Dinca P., <i>et al.</i>	Deuterium Retention in Mixed Layers with Application in Fusion Technology	2022	Coatings	12	951	10.3390/coatings12070951	3.236			10.674
16	Koutsoumbou X., Tsiaoussis I., Bulai G.A., Caltun O.F.,	CoFe ₂ -xRExO ₄ (RE=Dy, Yb, Gd) magnetic nanoparticles for biomedical applications	2021	Physica B: Condensed Matter	606	412849	10.1016/j.physb.2021.412849	2.988	6	34.047	

	Kalogirou O., Sarafidis C.										
	Suthar M., Khare D., Gangwar A., Banerjee S., Prasad N.K., Dubey A.K., Roy P.K.	Structural, magnetic, and biocompatibility evaluations of chromium substituted barium hexaferrite (Co ₂ -Y) for hyperthermia application	2023	Materials Chemistry and Physics	296	127348	10.1016/j.matchemphys.2023.127348	4.778			17.593
	Kamran M., Anis-ur-Rehman M.	Influence of La ³⁺ substitutions on structural, dielectric and electrical properties of spinel cobalt ferrite	2023	Ceramics International	49	7017	10.1016/j.ceramint.2022.10.127	5.532			20.107
	Ahmad S.I.	Nano cobalt ferrites: Doping, Structural, Low-temperature, and room temperature magnetic and dielectric properties – A comprehensive review	2022	Journal of Magnetism and Magnetic Materials	562	169840	10.1016/j.jmmm.2022.169840	3.097			11.990
	Nandhini G., Shobana M.K.	Role of ferrite nanoparticles in hyperthermia applications	2022	Journal of Magnetism and Magnetic Materials	552	169236	10.1016/j.jmmm.2022.169236	3.097			11.990
	Gingas D. <i>et al.</i>	Soft Chemistry Synthesis and Characterization of CoFe _{1.8} RE _{0.2} O ₄ (RE ³⁺ = Tb ³⁺ , Er ³⁺) Ferrite	2022	Magnetochemistry	8	12	10.3390/magnetochemistry8020012	3.336			12.787
17	Boukhoubza I., Khenfouch M., Leontie L., Achehboune M., Doroftei C., Carlescu A., Bulai G., Mothudi B.M., Zorkani I., Jorio A.	Enhancement of the structural and morphological properties of ZnO/rGO nanocomposites synthesized by hydrothermal method	2021	Materials Today: Proceedings	53	324	10.1016/j.matpr.2021.04.634	0	9	2.778	
18	Achehboune M., Khenfouch M., Boukhoubza I., Leontie L., Doroftei C., Carlescu A., Bulai G., Mothudi B., Zorkani I., Jorio A.	Microstructural, FTIR and Raman spectroscopic study of Rare earth doped ZnO nanostructures	2021	Materials Today: Proceedings	53	319	10.1016/j.matpr.2021.04.144	0	9	2.778	

	Lokhande S.D. <i>et al.</i>	Microstructural, optical and Raman properties of Zn _{1-x} CoxO nanoparticles for optoelectronics device applications	2023	Materials Letters	337	133919	10.1016/j.matlet.2023.133919	3.574			9.053
	Gunasekaran A. <i>et al.</i>	Synthesis and Characterization of ZnO Doped TiO ₂ Nanocomposites for Their Potential Photocatalytic and Antimicrobial Applications	2023	Catalysts	13	215	10.3390/catal13020215	4.501			11.113
	Birajdar S.D. <i>et al.</i>	Intrinsic defect-induced magnetism and enhanced photocatalytic activity in Zn _{1-x} ZrxO (0.0 ≤ x ≤ 0.07) nanoparticles for spintronic device and photocatalytic application	2022	Journal of Alloys and Compounds	929	167272	10.1016/j.jallcom.2022.167272	6.371			15.269
	Piras A. <i>et al.</i>	Photocatalytic Performance of Undoped and Al-Doped ZnO Nanoparticles in the Degradation of Rhodamine B under UV-Visible Light: The Role of Defects and Morphology	2022	International Journal of Molecular Sciences	23	15459	10.3390/ijms232415459	6.208			14.907
	Bouaziz L. <i>et al.</i>	Sensor prospect of iodine-doped ZnO materials for ethyl paraben detection	2022	Microchemical Journal	183	108132	10.1016/j.microc.2022.108132	5.304			12.898
	Forouzandeh-Malati M., Ganjali F., Zamiri E., Zarei-Shokat S., Jalali F., Padervand M., Taheri-Ledari R., Maleki A.	Efficient Photodegradation of Eriochrome Black-T by a Trimetallic Magnetic Self-Synthesized Nanophotocatalyst Based on Zn/Au/Fe-Embedded Poly(vinyl alcohol)	2022	Langmuir	38	13728	10.1021/acs.langmuir.2c01822	4.331			10.736
	Aggarwal N. <i>et al.</i>	Magnetic metamorphosis of structurally enriched hexagonal Tb ³⁺ modified ZnO nanoparticles	2022	Journal of Sol-Gel Science and Technology	103	108	10.1007/s10971-022-05811-2	2.606			6.902
19	Kadri L., Bulai G., Carlescu A., George S., Gurlui S., Leontie L., Doroftei C., Adnane M.	Effect of target sintering temperature on the morphological and optical properties of pulsed laser deposited TiO ₂ thin films	2021	Coatings	11	561	10.3390/coatings11050561	3.236	8	27.395	
	Tsega Yihunie M.	Effect of Temperature Sintering on Grain Growth and Optical	2023	Journal of Nanomaterials	2023	3098452	10.1155/2023/3098452	3.791			10.728

		Properties of TiO ₂ Nanoparticles									
	Kouao D.-S., Grochowska K., Siuzdak K.	The Anodization of Thin Titania Layers as a Facile Process towards Semitransparent and Ordered Electrode Material	2022	Nanomaterials	12	1131	10.3390/nano12071131	5.719			15.548
	More-Chevalier J. <i>et al.</i>	Tailoring pulsed laser deposition of phosphorus doped Wox films from (PO ₂) ₄ (WO ₃) ₄ target by space-resolved optical emission spectroscopy.	2022	Thin Solid Films	742	139042	10.1016/j.tsf.2021.139042	2.358			7.145
20	Bulai G., Epure L., Strat M., Toma S., Cimpoesu N., Gurlui S., Constantinel R., Hurdud N.	Azo-polysiloxanes spontaneous surface relief grating by pulsed laser irradiation	2020	Applied Physics A: Materials Science and Processing	126	616	10.1007/s00339-020-03800-2	2.983	8	25.498	
	Zhang D., Liu D., Ubukata T., Seki T.	Unconventional Approaches to Light-Promoted Dynamic Surface Morphing on Polymer Films	2022	Bulletin of the Chemical Society of Japan	95	138	10.1246/bcsj.20210348	5.121			14.053
21	Chiriac V., Bulai G., Curecheriu L., Topala I., Dumitrascu N.	Synthesis and characterization of (co)polymeric films obtained under atmospheric plasma conditions	2020	Materials Letters	264	127062	10.1016/j.matlet.2019.127062	3.423	4	57.595	
	Cheng L., Ghobeira R., Cools P., Luthringer B., Asadian M., De Geyter N., Liu Z., Yan K., Morent R.	Comparing medium pressure dielectric barrier discharge (DBD) plasmas and classic methods of surface cleaning/activation of pure Mg for biomedical applications	2021	Surface and Coatings Technology	410	126934	10.1016/j.surfcoat.2021.126934	4.865			26.825
22	Irimiciuc S.A., Hodoroaba B.C., Bulai G., Gurlui S., Craciun V.	Multiple structure formation and molecule dynamics in transient plasmas generated by laser ablation of graphite	2020	Spectrochimica Acta – Part B Atomic Spectroscopy	165	105774	10.1016/j.sab.2020.105774	3.752	5	50.024	
	Petrescu T., Mihai P., Voordijk J.T., Nedeff V., Văideanu D., Nedeff F., Babor T., Vasincu D., Agop M.	Complex Behavior in the Dynamics of a Polymeric Biocomposite Material—“Liquid Wood”. Experimental and Theoretical Aspects	2022	Polymers	14	64	10.3390/polym14010064	4.967			21.868

	Gavriluț G., Topliceanu L., Gîrțu M., Rotundu A.M., Irimiciuc S.A., Agop M.	Assessment of complex system dynamics via harmonic mapping in a multifractal paradigm	2021	Mathematics	9	3298	10.3390/math9243298	2.592			12.368
	Peptu C.A., Băcăiță E.S., Logigan C.-L.S., Luțcanu M., Agop M.	Hydrogels based on alginates and carboxymethyl cellulose with modulated drug release—an experimental and theoretical study	2021	Polymers	13	4461	10.3390/polym13244461	4.967			21.868
	Irimiciuc S.A., Chertopalov S., Novotný M., Craciun V., Lancok J.	On the dynamics of transient plasmas generated by nanosecond laser ablation of several metals	2021	Materials	14	7336	10.3390/ma14237336	3.748			16.992
	Băcăiță E.S., Peptu C.A., Logigan C.-L.S., Luțcanu M., Agop M.	Manifest/non-manifest drug release patterns from polysaccharide based hydrogels—case study on cyclodextrin—k carrageenan crosslinked hydrogels	2021	Polymers	13	4147	10.3390/polym13234147	4.967			21.868
	Irimiciuc S.A. <i>et al.</i>	In situ optical and electrical analysis of transient plasmas generated by ns-laser ablation for Ag nanostructured film production	2021	Vacuum	193	110528	10.1016/j.vacuum.2021.110528	4.11			18.440
	Harris S.B., Paiste J.H., Edoki J., Arslanbekov R.R., Camata R.P.	Experimentally constrained multidimensional simulation of laser-generated plasmas and its application to UV nanosecond ablation of Se and Te	2021	Plasma Sources Science and Technology	30	105013	10.1088/1361-6595/ac2677	4.124			18.496
	Irimiciuc S. <i>et al.</i>	In-situ plasma monitoring by optical emission spectroscopy during pulsed laser deposition of doped Lu2O3	2021	Applied Physics B: Lasers and Optics	127	140	10.1007/s00340-021-07689-4	2.171			10.684
	Irimiciuc S.A., Chertopalov S., Lancok J., Craciun V.	Langmuir probe technique for plasma characterization during pulsed laser deposition process	2021	Coatings	11	762	10.3390/coatings11070762	3.236			14.944

	Toma B.F., Socolov R., Popa O., Socolov D., Nica I., Agop M., Vasincu D., Grigore M., Ochiuz L.	Prospects and Challenges of the Drug Delivery Systems in Endometriosis Pain Management: Experimental and Theoretical Aspects	2021	Journal of Immunology Research	2021	2727174	10.1155/2021/2727174	4.493			19.972
	Irimiciuc S.A., Chertopalov S., Craciun V., Novotný M., Lancok J.	Investigation of laser-produced plasma multistructuring by floating probe measurements and optical emission spectroscopy	2020	Plasma Processes and Polymers	17	2000136	10.1002/ppap.202000136	3.877			17.508
	Fernández-Menéndez L.J., Méndez-López C., Alvarez-Llamas C., González-Gago C., Pisonero J., Bordel N.	Spatio-temporal distribution of atomic and molecular excited species in Laser-Induced Breakdown Spectroscopy: Potential implications on the determination of halogens	2020	Spectrochimica Acta – Part B Atomic Spectroscopy	168	105848	10.1016/j.sab.2020.105848	3.752			17.008
23	Stoica I., Sava I., Bulai G., Stoian G., Strat M., Gurlui S., Oprisan B.	Development and morphological characterization of novel polyimide/Metal nano hybrid materials	2020	Materiale Plastice	57	94	10.37358/MP.20.2.5355	0.593	6	10.097	
	Barzic A.I., Diaconu A.-D., Condurache B.-C., Soroceanu M., Albu R.M., Stoica I.	Assessment of optical and thermal properties of polyimide/metal oxide composites for photovoltaic uses	2023	Bulletin of Materials Science	46	18	10.1007/s12034-023-02889-4	1.878			7.927
24	Cimpoesu N., Gurlui S., Bulai G., Cimpoesu R., Paun V.-P., Irimiciuc S.A., Agop M.	In-situ plasma monitoring during the pulsed laser deposition of Ni60Ti40 thin films	2020	Symmetry	12	5605	10.3390/SYM12010109	2.713	7	26.826	
	Băcăiță E.S., Peptu C.A., Logigan C.-L.S., Luțcanu M., Agop M.	Manifest/non-manifest drug release patterns from polysaccharide based hydrogels—case study on cyclodextrin—k carrageenan crosslinked hydrogels	2021	Polymers	13	4147	10.3390/polym13234147	4.967			15.620
	Dascălu A., Istrate B., Munteanu C., Paleu Cirlan C., Paleu V.	Morphological and tribological studies of thermal plasma jet deposited coatings used in cardan joints	2020	IOP Conference Series: Materials Science and Engineering	997	12022	10.1088/1757-899X/997/1/012022	0			1.429

25	Tiron V., Ursu E.-L., Cristea D., Munteanu D., Bulai G., Ceban A., Velicu I.-L.	Overcoming the insulating materials limitation in HiPIMS: Ion-assisted deposition of DLC coatings using bipolar HiPIMS	2019	Applied Surface Science	494	871	10.1016/j.apsusc.2019.07.239	6.182	7	56.560	
	Flores-Cova L., Broitman E., Jimenez O., Flores-Martínez M.	Tribological behavior of WC/WCN/CNx coatings deposited by high power impulse magnetron sputtering	2023	Journal of Vacuum Science and Technology A	41	33105	10.1116/6.0002421	3.234			10.669
	Fukue H., Nakatani T., Okano T., Kuroiwa M., Kunitsugu S., Oota H., Yonezawa K.	Effect of tail time of discharge current on film properties in diamond-like carbon deposition by high-frequency inclusion high-power impulse magnetron sputtering	2023	Diamond and Related Materials	135	109868	10.1016/j.diamond.2023.109868	3.806			12.303
	Li Q., Huang T., Yang M., Gao T., Ji B., Zhang S., Zhang L., Tu R.	Effects of gradient structure and modulation period of Ta/TaN/Ta(C,N)/Ta-DLC multilayer coatings prepared by HiPIMS	2023	Surface and Coatings Technology	459	129406	10.1016/j.surfcoat.2023.129406	4.865			15.329
	Ganesan R. <i>et al.</i>	Pulse length selection in bipolar HiPIMS for high deposition rate of smooth, hard amorphous carbon films	2023	Surface and Coatings Technology	454	129199	10.1016/j.surfcoat.2022.129199	4.865			15.329
	Law M.A. <i>et al.</i>	Evidence for fireballs in bipolar HiPIMS plasmas	2023	Plasma Sources Science and Technology	32	25015	10.1088/1361-6595/acbc97	4.124			13.211
	Song R., Chen S., Liu Z., Huo C., Chen Q.	Effect of W-doping on the structure and properties of DLC films prepared by combining physical and chemical vapor deposition	2023	Diamond and Related Materials	132	109687	10.1016/j.diamond.2023.109687	3.806			12.303
	Han M., Luo Y., Li H., Tang L., Li D., Gu J., Li L., Xu Y., Luo S.	Formations of anode double layer and ion beam in bipolar-pulse HiPIMS (BP-HiPIMS)	2022	Plasma Sources Science and Technology	31	105014	10.1088/1361-6595/ac9752	4.124			13.211
	Li L., Gu J., Xu Y., Han M., Marie Bilek M.M.	Application of positive pulse to extract ions from HiPIMS ionization region	2022	Vacuum	204	111383	10.1016/j.vacuum.2022.111383	4.11			13.171

	Luo Y., Han M., Su Y., Li H., Li D., Tang L., Deng D., Gu J., Yan X., Xu Y., Luo S., Li L.	Adjustment of high-energy ion flux in BP-HiPIMS via pulsed coil magnetic field: plasma dynamics and film deposition	2022	Plasma Sources Science and Technology	31	95015	10.1088/1361-6595/ac907f	4.124			13.211
	Mednikov A. <i>et al.</i>	Study of stress state changes in steel with Ti-TiC-DLC coating under high speed droplet impact	2022	Tribology International	173	107626	10.1016/j.triboint.2022.107626	5.62			17.486
	Huang S.-Y., Hsieh P.-Y., Chung C.-J., Chou C.-M., He J.-L.	Nanoarchitectonics for Ultrathin Gold Films Deposited on Collagen Fabric by High-Power Impulse Magnetron Sputtering	2022	Nanomaterials	12	1627	10.3390/nano12101627	5.719			17.769
	Han M., Luo Y., Li L., Li H., Xu Y., Luo S.	Ion energy distribution and non-linear ion dynamics in BP-HiPIMS and ACBP-HiPIMS discharge	2022	Plasma Sources Science and Technology	31	25016	10.1088/1361-6595/ac4b69	4.124			13.211
	Zanáška M. <i>et al.</i>	Dynamics of bipolar HiPIMS discharges by plasma potential probe measurements	2022	Plasma Sources Science and Technology	31	25007	10.1088/1361-6595/ac4b65	4.124			13.211
	Shandrikov M.V., Cherkasov A.A., Oks E.M., Vizir A.V.	Modified residual gas analyzer for measuring the ion mass-to-charge composition of a repetitively pulsed plasma	2022	AIP Advances	12	25017	10.1063/5.0081234	1.697			6.277
	Han M., Luo Y., Tang L., Gu J., Li H., Xu Y., Luo S., Li L.	Plasma flux and energy enhancement in BP-HiPIMS discharge via auxiliary anode and solenoidal coil	2021	Plasma Sources Science and Technology	30	115002	10.1088/1361-6595/ac2c8c	4.124			13.211
	Law M.A., Estrin F.L., Bowden M.D., Bradley J.W.	Diagnosing asymmetric bipolar HiPIMS discharges using laser Thomson scattering	2021	Plasma Sources Science and Technology	30	105019	10.1088/1361-6595/ac2be4	4.124			13.211
	Michiels M. <i>et al.</i>	On the relationship between the plasma characteristics, the microstructure and the optical properties of reactively sputtered TiO ₂ thin films	2021	Journal of Physics D: Applied Physics	54	415202	10.1088/1361-6463/ac118e	3.409			11.169
	Han M., Luo Y., Li L., Gu J., Xu Y., Luo S.	Optimizing the ion diffusion in bipolar-pulse HiPIMS discharge (BP-HiPIMS) via an auxiliary anode	2021	Plasma Sources Science and Technology	30	95016	10.1088/1361-6595/ac1383	4.124			13.211

	Du H., Zanáška M., Brenning N., Helmersson U.	Bipolar HiPIMS: The role of capacitive coupling in achieving ion bombardment during growth of dielectric thin films	2021	Surface and Coatings Technology	416	127152	10.1016/j.surfcoat.2021.127152	4.865			15.329
	Zhang Y.-G., Sun W.-C., Dong Y.-R., Ma M., Liu Y.-W., Tian S.-S., Xiao Y., Jia Y.-P.	Electrodeposition and microstructure of Ni and B co-doped diamond-like carbon (Ni/B-DLC) films	2021	Surface and Coatings Technology	405	126713	10.1016/j.surfcoat.2020.126713	4.865			15.329
	Baba S. <i>et al.</i>	High performance power supplies for plasma materials processing	2021	IEEE Access	9	9334997	10.1109/ACCESS.2021.3054051	3.476			11.360
	Viloan R.P.B., Zanáška M., Lundin D., Helmersson U.	Pulse length selection for optimizing the accelerated ion flux fraction of a bipolar HiPIMS discharge	2020	Plasma Sources Science and Technology	29	125013	10.1088/1361-6595/abc6f6	3.584			11.669
	Pajdarová A.D., Kozák T., Hubička Z., Čada M., Mareš P., Čapek J.	Plasma parameters in positive voltage pulses of bipolar HiPIMS discharge determined by Langmuir probe with a sub-microsecond time resolution	2020	Plasma Sources Science and Technology	29	85016	10.1088/1361-6595/aba773	3.584			11.669
	Batková Š., Čapek J., Rezek J., Čerstvý R., Zeman P.	Effect of positive pulse voltage in bipolar reactive HiPIMS on crystal structure, microstructure and mechanical properties of CrN films	2020	Surface and Coatings Technology	393	125773	10.1016/j.surfcoat.2020.125773	4.158			13.309
	Kubart T. <i>et al.</i>	High power impulse magnetron sputtering of diamond-like carbon coatings	2020	Journal of Vacuum Science and Technology A	38	43408	10.1116/6.0000070	2.427			8.363
	Kozák T., Pajdarová A.D., Čada M., Hubička Z., Mareš P., Čapek J.	Ion energy distributions at substrate in bipolar HiPIMS: Effect of positive pulse delay, length and amplitude	2020	Plasma Sources Science and Technology	29	65003	10.1088/1361-6595/ab8fbb	3.584			11.669
	Vitelaru C. <i>et al.</i>	A strategy for alleviating micro arcing during HiPIMS deposition of DLC coatings	2020	Materials	13	1038	10.3390/ma13051038	3.623			11.780
	Tiron V., Velicu I.-L.	Understanding the ion acceleration mechanism in bipolar HiPIMS: The role of the double layer structure developed in the after-glow plasma	2020	Plasma Sources Science and Technology	29	15003	10.1088/1361-6595/ab6156	3.584			11.669

26	Enescu F., Irimiciuc S.A., Cimpoesu N., Bedeleian H., Bulai G., Gurlui S., Agop M.	Investigations of laser produced plasmas generated by laser ablation on geomaterials. Experimental and theoretical aspects	2019	Symmetry	11	1391	10.3390/sym11111391	2.645	7	26.243	
	Irimiciuc S.A., Agop M.	Multifractal model for transient phenomena analysis in laser produced plasmas	2021	Symmetry	13	1968	10.3390/sym13101968	2.94			9.829
	Lutcanu M., Istrate B., Coteata M., Chicet D.L., Ionita I., Paraschiv C., Stirbu I., Badarau G., Cimpoesu N.	Structural aspects and chemical analyses on cutting process of metallic-ceramic materials	2021	IOP Conference Series: Materials Science and Engineering	1037	12033	10.1088/1757-899X/1037/1/012033	0			1.429
	Irimiciuc S., Enescu F., Bedeleian H., Gurlui S., Agop M.	Space-and time-resolved optical investigations on ns-laser produced plasmas on various geological samples	2020	Spectrochimica Acta – Part B Atomic Spectroscopy	170	105904	10.1016/j.sab.2020.105904	3.752			12.149
	Tan S., Wang M., Wu J., Zhang Y., Li J.	A Study on the Plasma Plume Expansion Dynamics of Nanosecond Laser Ablating Al/PTFE	2020	Energies	13	3321	10.3390/en13133321	3.252			10.720
	Agop M., Craus M.	Towards stochasticity through joint invariant functions of two isomorphic lie algebras of SL(2R) type	2020	Symmetry	12	226	10.3390/sym12020226	2.713			9.180
	Agop M., Cimpoesu N., Gurlui S., Irimiciuc S.A.	Investigations of transient plasma generated by laser ablation of hydroxyapatite during the pulsed laser deposition process	2020	Symmetry	12	132	10.3390/SYM12010132	2.713			9.180
27	Bulai G., Trandafir V., Irimiciuc S.A., Ursu L., Focsa C., Gurlui S.	Influence of rare earth addition in cobalt ferrite thin films obtained by pulsed laser deposition	2019	Ceramics International	45	20165	10.1016/j.ceramint.2019.06.284	3.83	5	50.960	
	Sun L., Li X., Zhang Y., Song H., Zhang W., Kou Z., Zhang D., Liu X., Fei H., Pan M., Zhao Z., Zhai Y.	An exchange bias observed in Tb/Cr/FeCo trilayers with ultrathin Cr layer at low temperature	2022	Current Applied Physics	44	158	10.1016/j.cap.2022.10.008	2.856			13.424

	Vadivel M., Ramesh Babu R., Sridharan M.	Spray-Deposited Rare Earth Metal Ions (La ³⁺ and Sm ³⁺) Substituted CoFe ₂ O ₄ Thin Films for NH ₃ Gas-Sensing Applications	2022	Journal of Superconductivity and Novel Magnetism	35	2563	10.1007/s10948-022-06309-2	1.675			8.700
	Ghorbani H. <i>et al.</i>	Effect of Yb doping on the structural and magnetic properties of cobalt ferrite nanoparticles	2022	Materials Research Bulletin	147	111642	10.1016/j.materresbull.2021.111642	5.6			24.400
	Agop M., Mihaila I., Nedeff F., Irimiciuc S.A.	Charged particle oscillations in transient plasmas generated by nanosecond laser ablation on MG target	2020	Symmetry	12	292	10.3390/sym12020292	2.713			12.852
	Agop M., Cimpoesu N., Gurlui S., Irimiciuc S.A.	Investigations of transient plasma generated by laser ablation of hydroxyapatite during the pulsed laser deposition process	2020	Symmetry	12	132	10.3390/SYM12010132	2.713			12.852
28	Cocean I., Cocean A., Postolachi C., Pohoata V., Cimpoesu N., Bulai G., Iacom F., Gurlui S.	Alpha keratin amino acids BEHAVIOR under high FLUENCE laser interaction. Medical applications	2019	Applied Surface Science	488	418	10.1016/j.apsusc.2019.05.207	6.182	7	56.560	
	Cocean A. <i>et al.</i>	Nano-Biocomposite Materials Obtained from Laser Ablation of Hemp Stalks for Medical Applications and Potential Component in New Solar Cells	2023	International Journal of Molecular Sciences	24	3892	10.3390/ijms24043892	6.208			19.166
	Garofalide S. <i>et al.</i>	Saharan Dust Storm Aerosol Characterization of the Event (9 to 13 May 2020) over European AERONET Sites	2022	Atmosphere	13	493	10.3390/atmos13030493	3.11			10.314
	Cao H., Ma X., Wei Z., Tan Y., Chen S., Ye T., Yuan M., Yu J., Wu X., Yin F., Xu F.	Behavior and mechanism of the adsorption of lead by an eco-friendly porous double-network hydrogel derived from keratin	2022	Chemosphere	289	133086	10.1016/j.chemosphere.2021.133086	8.943			26.980
	Cocean A. <i>et al.</i>	Study of physico-chemical interactions during the production of silver citrate nanocomposites with hemp fiber	2021	Nanomaterials	11	2560	10.3390/nano11102560	5.719			17.769

	Cocean A. <i>et al.</i>	Laser induced method to produce curcuminoid-silanol thin films for transdermal patches using irradiation of turmeric target	2021	Applied Sciences (Switzerland)	11	4030	10.3390/app11094030	2.838			9.537
	Cocean I., Diaconu M., Cocean A., Postolachi C., Gurlui S.	Landfill Waste Fire Effects over Town Areas under Rainwaters	2020	IOP Conference Series: Materials Science and Engineering	877	12048	10.1088/1757-899X/877/1/012048	0			1.429
	Cocean A., Cocean I., Postolachi C., Pricop D., Husanu F., Gurlui S.	Laser Induced Dyeing (LID) with Reactive Blue 21 on Hemp Fibers	2020	IOP Conference Series: Materials Science and Engineering	877	12022	10.1088/1757-899X/877/1/012022	0			1.429
	Cocean A. <i>et al.</i>	Copper Sulfate Pentahydrate Target Behavior during Pulsed Laser Deposition to Produce Dichroic Coatings for Beam Splitters	2020	IOP Conference Series: Materials Science and Engineering	877	12005	10.1088/1757-899X/877/1/012005	0			1.429
29	Bedo T., Varga B., Cristea D., Nitoi A., Gatto A., Bassoli E., Bulai G., Velicu I.-L., Ghiuta I., Munteanu S., Pop M.A., Gabor C., Cosnita M., Parv L., Munteanu D.	Metastable Al–Si–Ni alloys for additive manufacturing: Structural stability and energy release during heating	2019	Metals	9	483	10.3390/met9050483	2.117	14	10.859	
30	Bulai G., Pompilian O., Gurlui S., Nemec P., Nazabal V., Cimpoesu N., Chazallon B., Focsa C.	Ge-Sb-Te chalcogenide thin films deposited by nanosecond, picosecond, and femtosecond laser ablation	2019	Nanomaterials	9	676	10.3390/nano9050676	4.324	7	40.634	
	Jemelka J., Palka K., Jancalek J., Kurka M., Slang S., Vlcek M.	Preparation of solution-processed thin films of As-S-Se system from As ₄₀ S ₆₀ solution modified by amorphous selenium	2023	Journal of Non-Crystalline Solids	605	122159	10.1016/j.jnoncrysol.2023.122159	4.458			14.166
	Schneider C.W., Lippert T.	PLD plasma plume analysis: a summary of the PSI contribution	2023	Applied Physics A	129	138	10.1007/s00339-023-06408-4	2.983			9.951

	Singh A.K., Shkir M., Jen T.-C.	Impact of Temperature on GST/ITO/Soda-Lime Glass Substrate Thin Film Devices	2022	Journal of Electronic Materials	51	1838	10.1007/s11664-022-09458-1	2.047			7.277
	Garibova S.N., Isaev A.I., Mekhtieva S.I., Ataeva S.U., Alekberov R.I.	The Effect of Synthesis and Heat Treatment Modes on the Local Structure of a Ge ₂ Sb ₂ Te ₅ Chalcogenide Semiconductor	2022	Semiconductors	56	175	10.1134/S1063782622020063	0.66			3.314
	Huang R. <i>et al.</i>	Analysis of Topological Aspects for Metal-Insulator Transition Superlattice Network	2022	Complexity	2022	8344699	10.1155/2022/8344699	2.121			7.489
	Jancalek J. <i>et al.</i>	Preparation of quaternary solution processed chalcogenide thin films using mixtures of separate As ₄₀ S ₆₀ and Ge ₂₀ Sb ₅ S ₇₅ glass solutions	2021	Journal of Non-Crystalline Solids	564	120833	10.1016/j.jnoncrysol.2021.120833	4.458			14.166
	Bilovol V., Arcondo B., Rocca J.A., Di Liscia E.J., Ureña M.A.	SnSb ₂ Te ₄ : Microcrystalline sample vs thin film	2020	Journal of Solid State Chemistry	285	121249	10.1016/j.jssc.2020.121249	3.498			11.423
	Irimiciuc S.A., Nica P.-E., Agop M., Focsa C.	Target properties – Plasma dynamics relationship in laser ablation of metals: Common trends for fs, ps and ns irradiation regimes	2020	Applied Surface Science	506	144926	10.1016/j.apsusc.2019.144926	6.707			20.591
	Mihailescu I.N.	Synthesis and modification of nanostructured thin films	2019	Nanomaterials	9	1427	10.3390/nano9101427	4.324			13.783
31	Resmerita A.-M., Asandulesa M., Bulai G., Farcas A.	Novel supramolecular networks based on PEG and PEDOT cross-linked polyrotaxanes as electrical conductive materials	2019	European Polymer Journal	114	39	10.1016/j.eurpolymj.2019.02.015	3.862	4	64.180	
	Resmerita A.-M., Silion M., Cojocaru C., Farcas A.	Structural and morphological characterization of a new semi-polyrotaxane architecture based on 2-hydroxypropyl- β -cyclodextrins and polyisoprene	2022	Reactive and Functional Polymers	181	105459	10.1016/j.reactfunctpolym.2022.105459	4.966			27.330

	Resmerita A.-M., Asandulesa M., Farcas A.	Evaluation of the Chemical, Morphological and Dielectric Properties of Supramolecular Networks Consisting of Polyethylene Glycol Polyrotaxanes and Polystyrene/Semi-Rotaxane with Hydroxypropyl- β -Cyclodextrins	2022	Macromolecular Chemistry and Physics	223	2100383	10.1002/macp.202100383	2.996			17.480
	Resmerita A.-M., Asandulesa M., Farcas A.	Morphological and Electronic Properties of Poly(ethylene glycol)/RAMEB Polyrotaxane and Polypyrrole Supramolecular Networks	2020	Macromolecular Chemistry and Physics	221	2000011	10.1002/macp.202000011	2.996			17.480
	Liang X., Ding H., Wang Q., Sun G.	Tough physical hydrogels reinforced by hydrophobic association with remarkable mechanical property, rapid stimuli-responsiveness and fast self-recovery capability	2019	European Polymer Journal	120	109278	10.1016/j.eurpolymj.2019.109278	3.862			21.810
32	Irimiciuc S.A., Bulai G., Gurlui S., Agop M.	On the separation of particle flow during pulse laser deposition of heterogeneous materials – A multi-fractal approach	2018	Powder Technology	339	273	10.1016/j.powtec.2018.08.019	4.142	4	68.380	
	Mandalian T.-L. <i>et al.</i>	Statistical Analysis and Machine Learning Used in the Case of Two Behavioral Tests Applied in Zebrafish Exposed to Mycotoxins	2022	Applied Sciences (Switzerland)	12	2908	10.3390/app12062908	2.838			16.690
	Irimiciuc S.A., Agop M.	Multifractal model for transient phenomena analysis in laser produced plasmas	2021	Symmetry	13	1968	10.3390/sym13101968	2.94			17.200
	Irimiciuc S.-A. <i>et al.</i>	Non-linear behaviors of transient periodic plasma dynamics in a multifractal paradigm	2020	Symmetry	12	1356	10.3390/sym12081356	2.713			16.065
	Irimiciuc S., Enescu F., Bedeleian H., Gurlui S., Agop M.	Space-and time-resolved optical investigations on ns-laser produced plasmas on various geological samples	2020	Spectrochimica Acta – Part B Atomic Spectroscopy	170	105904	10.1016/j.sab.2020.105904	3.752			21.260
	Iftime M.M., Irimiciuc S.A., Agop M., Angheloiu M., Ochiuz L.,	A theoretical multifractal model for assessing urea release from chitosan based formulations	2020	Polymers	12	1264	10.3390/POLYM12061264	4.329			24.145

	Vasincu D.										
	Agop M., Craus M.	Towards stochasticity through joint invariant functions of two isomorphic lie algebras of SL(2R) type	2020	Symmetry	12	226	10.3390/sym12020226	2.713			16.065
	Iftime M.M., Dobreci D.L., Irimiciuc S.A., Agop M., Petrescu T., Doroftei B.	A theoretical mathematical model for assessing diclofenac release from chitosan-based formulations	2020	Drug Delivery	27	1125	10.1080/10717544.2020.1797242	6.419			34.595
	Agop M., Cimpoesu N., Gurlui S., Irimiciuc S.A.	Investigations of transient plasma generated by laser ablation of hydroxyapatite during the pulsed laser deposition process	2020	Symmetry	12	132	10.3390/SYM12010132	2.713			16.065
	Irimiciuc S.A., Gurlui S., Agop M.	Particle distribution in transient plasmas generated by ns-laser ablation on ternary metallic alloys	2019	Applied Physics B: Lasers and Optics	125	190	10.1007/s00340-019-7302-0	1.817			11.585
	Irimiciuc S.A., Enescu F., Agop A., Agop M.	Lorenz type behaviors in the dynamics of laser produced plasma	2019	Symmetry	11	1135	10.3390/sym11091135	2.645			15.725
33	Irimiciuc S., Bulai G., Agop M., Gurlui S.	Influence of laser-produced plasma parameters on the deposition process: in situ space- and time-resolved optical emission spectroscopy and fractal modeling approach	2018	Applied Physics A: Materials Science and Processing	124	615	10.1007/s00339-018-2035-1	1.784	4	33.010	
	Modabberasl A. <i>et al.</i>	Atomic force microscopy and multifractal analysis in diamond-like carbon films	2022	Applied Physics A	128	802	10.1007/s00339-022-05933-y	2.983			17.415
	Harilal S.S., Phillips M.C., Froula D.H., Anoop K.K., Issac R.C., Beg F.N.	Optical diagnostics of laser-produced plasmas	2022	Reviews of Modern Physics	94	35002	10.1103/RevModPhys.94.035002	50.485			254.925
	Mandalian T.-L. <i>et al.</i>	Statistical Analysis and Machine Learning Used in the Case of Two Behavioral Tests Applied in Zebrafish Exposed to Mycotoxins	2022	Applied Sciences (Switzerland)	12	2908	10.3390/app12062908	2.838			16.690

	Cesaria M., Mazzeo M., Quarta G., Aziz M.R., Nobile C., Carallo S., Martino M., Calcagnile L., Caricato A.P.	Pulsed laser deposition of cspbbr3 films: Impact of the composition of the target and mass distribution in the plasma plume	2021	Nanomaterials	11	3210	10.3390/nano11123210	5.719			31.095
	Irimiciuc S.A., Agop M.	Multifractal model for transient phenomena analysis in laser produced plasmas	2021	Symmetry	13	1968	10.3390/sym13101968	2.94			17.200
	Irimiciuc S.A. <i>et al.</i>	Novel approach for eeg signal analysis in a multifractal paradigm of motions. Epileptic and eclamptic seizures as scale transitions	2021	Symmetry	13	1024	10.3390/sym13061024	2.94			17.200
	Agop M. <i>et al.</i>	Toward complex systems dynamics through flow regimes of multifractal fluids	2021	Symmetry	13	754	10.3390/sym13050754	2.94			17.200
	Himiniuc L., Agop M., Ghizdov V., Paun M.-A., Paun V.-A., Baciuc C., Paun V.-P., Toma B.	A drug release mechanism controlled by hydrophobic/hydrophilic balance of the matrix. Theoretical and experimental perspectives	2021	Materiale Plastice	57	155	10.37358/MP.20.4.5415	0.782			6.410
	Ailincăi D. <i>et al.</i>	Theoretical model for the diclofenac release from PEGylated chitosan hydrogels	2021	Drug Delivery	28	261	10.1080/10717544.2021.1876181	6.819			36.595
	Irimiciuc S.-A. <i>et al.</i>	Non-linear behaviors of transient periodic plasma dynamics in a multifractal paradigm	2020	Symmetry	12	1356	10.3390/sym12081356	2.713			16.065
	Irimiciuc S., Enescu F., Bedeleian H., Gurlui S., Agop M.	Space-and time-resolved optical investigations on ns-laser produced plasmas on various geological samples	2020	Spectrochimica Acta – Part B	170	105904	10.1016/j.sab.2020.105904	3.752			21.260
	Popov S.A., Dubrovskaya E.L., Batrakov A.V.	Experimental Study of Space Charge Structure and Expansion Dynamics of Laser Ablation Plasma	2020	Russian Physics Journal	63	508	10.1007/s11182-020-02063-x	0.664			5.820
	Agop M., Mihaila I., Nedeff F., Irimiciuc S.A.	Charged particle oscillations in transient plasmas generated by nanosecond laser ablation on MG target	2020	Symmetry	12	292	10.3390/sym12020292	2.713			16.065

	Agop M., Craus M.	Towards stochasticity through joint invariant functions of two isomorphic lie algebras of SL(2R) type	2020	Symmetry	12	226	10.3390/sym12020226	2.713			16.065
	Agop M., Cimpoesu N., Gurlui S., Irimiciuc S.A.	Investigations of transient plasma generated by laser ablation of hydroxyapatite during the pulsed laser deposition process	2020	Symmetry	12	132	10.3390/SYM12010132	2.713			16.065
	Irimiciuc S.A., Enescu F., Agop A., Agop M.	Lorenz type behaviors in the dynamics of laser produced plasma	2019	Symmetry	11	1135	10.3390/sym11091135	2.645			15.725
34	Cocean A., Cocean I., Cazacu M.M., Bulai G., Iacomi F., Gurlui S.	Atmosphere self-cleaning under humidity conditions and influence of the snowflakes and artificial light interaction for water dissociation simulated by the means of COMSOL	2018	Applied Surface Science	443	83	10.1016/j.apsusc.2018.02.156	5.155	6	55.717	
	Cocean I., Diaconu M., Cocean A., Postolachi C., Gurlui S.	Landfill Waste Fire Effects over Town Areas under Rainwaters	2020	IOP Conference Series: Materials Science and Engineering	877	12048	10.1088/1757-899X/877/1/012048	0			1.667
	Garofalide S., Diaconu M., Cocean I., Cocean A., Pelin V., Gurlui S., Leontie L.	Study of Physico-Chemical Characteristics of Some Major Urban Air Pollutants	2020	IOP Conference Series: Materials Science and Engineering	877	12049	10.1088/1757-899X/877/1/012049	0			1.667
	Cocean I., Cocean A., Iacomi F., Gurlui S.	City water pollution by soot-surface-active agents revealed by FTIR spectroscopy	2020	Applied Surface Science	499	142487	10.1016/j.apsusc.2019.04.179	6.707			24.023
35	Lutic D., Petrovski D., Ignat M., Crețescu I., Bulai G.	Mesoporous cerium-doped titania for the photocatalytic removal of persistent dyes	2018	Catalysis Today	306	300	10.1016/j.cattod.2016.12.018	4.888	5	63.656	
	Ramesh S., Punithamoorthy K.	Synthesis and characterization of ternary nanocomposites of TiO ₂ /rGO/CdS as an efficient catalyst for photo-degradation of methyl orange	2023	Journal of the Chinese Chemical Society	70	24	10.1002/jccs.202200473	1.753			9.012

	Wu K., Shi Z., Wang X., Wang J.	Effect of Ce-Doping on Microstructure and Adsorption-Photodegradation Behaviors of the Hydrothermally-Synthesized TiO ₂ Nanotubes	2022	Crystals	12	1094	10.3390/cryst12081094	2.67			12.680
	Li Y., Li Y., Lv J., Zhao Z., Sun G.	Heterogeneous Fenton Degradation of Methyl Orange Using Fe–Al–Ce Bentonite As Catalyst	2022	Russian Journal of Physical Chemistry A	96	302	10.1134/S0036024422020303	0.791			5.164
	Ikram M. <i>et al.</i>	A review of photocatalytic characterization, and environmental cleaning, of metal oxide nanostructured materials	2021	Sustainable Materials and Technologies	30	e00343	10.1016/j.susmat.2021.e00343	10.681			44.724
	Favier L., Sescu A.M., Abdelkader E., Berthou L.O., Lutic D.	Urea-assisted synthesis of mesoporous TiO ₂ photocatalysts for the efficient removal of clofibric acid from water	2021	Materials	14	6035	10.3390/ma14206035	3.748			16.992
	Luo H., Yu S., He F., Li L., Zhong M., Dong N., Su B.	An important phenomenon in Fe ₂ O ₃ -TiO ₂ photocatalyst: Ion-inter-doping	2021	Solid State Sciences	113	106538	10.1016/j.solidstatesciences.2021.106538	3.752			17.008
	Sescu A.M., Favier L., Lutic D., Soto-Donoso N., Ciobanu G., Harja M.	TiO ₂ doped with noble metals as an efficient solution for the photodegradation of hazardous organic water pollutants at ambient conditions	2021	Water (Switzerland)	13	19	10.3390/w13010019	3.53			16.120
	Wang J., Yang J., Fang J., Li Y., Zhang H., Zhao Z., Ao Y.	Photocatalytic Activity of Nonprecious Metal WSe ₂ /g-C ₃ N ₄ Composite under Visible Light Irradiation	2020	Nano	15	2050042	10.1142/S1793292020500423	1.556			8.224
	Huang X., Tian C., Qin H., Guo W., Gao P., Xiao H.	Preparation and characterization of Al ³⁺ -doped TiO ₂ tight ultrafiltration membrane for efficient dye removal	2020	Ceramics International	46	4679	10.1016/j.ceramint.2019.10.199	4.527			20.108
	Menezes B.A.T., Moreira D.E.B., Oliveira H.A., Marques L.F., Lima J.F.	Solvothermal synthesis of cerium-doped titania nanostructured materials modified with acetylacetone for solar-driven photocatalysis	2020	Journal of the Brazilian Chemical Society	31	153	10.21577/0103-5053.20190148	1.838			9.352

	Neolaka Y.A.B. <i>et al.</i>	Simple design and preliminary evaluation of continuous submerged solid small-scale laboratory photoreactor (CS4PR) using TiO ₂ /NO ₃ -@TC for dye degradation	2019	Journal of Environmental Chemical Engineering	7	103482	10.1016/j.jece.2019.103482	4.3			19.200
	Liu J., Liu J., Shi F., Hu S., Jiang S., Liu S., Liu D., Tian X.	F/W co-doped TiO ₂ -SiO ₂ composite aerogels with improved visible light-driven photocatalytic activity	2019	Journal of Solid State Chemistry	275	8	10.1016/j.jssc.2019.03.042	2.726			12.904
	Cai L., Yao J., Li J., Zhang Y., Wei Y.	Sonochemical synthesis of BiOI-TiO ₂ heterojunction with enhanced visible-light-driven photocatalytic activity	2019	Journal of Alloys and Compounds	783	300	10.1016/j.jallcom.2018.12.387	4.65			20.600
	Yang X., Liu Y., Li J., Zhang Y.	Effects of calcination temperature on morphology and structure of CeO ₂ nanofibers and their photocatalytic activity	2019	Materials Letters	241	76	10.1016/j.matlet.2019.01.006	3.204			14.816
	Chen M., Qu G., Yang W., Li W., Tang Y.	Celgard membrane-mediated ion diffusion for synthesizing hierarchical Co(OH) ₂ nanostructures for electrochemical applications	2018	Chemical Engineering Journal	350	209	10.1016/j.cej.2018.05.183	8.355			35.420
	Bharatvaj J., Preethi V., Kanmani S.	Hydrogen production from sulphide wastewater using Ce ³⁺ -TiO ₂ photocatalysis	2018	International Journal of Hydrogen Energy	43	3935	10.1016/j.ijhydene.2017.12.069	4.048			18.192
36	Bulai G., Rusu O., Cazacu M.M., Tudorache F., Chazallon B., Focsa C., Gurlui S.	Structural, magnetic and humidity sensing properties of rare earth doped cobalt ferrite thin films synthesized by pulsed laser deposition	2018	Journal of Ovonic Research	14	119		0.701	7	9.580	
	Nikmanesh H., Jaberolansar E., Kameli P., Varzaneh A.G.	Effect of praseodymium in cation distribution, and temperature-dependent magnetic response of cobalt spinel ferrite nanoparticles	2022	Nanotechnology	33	275709	10.1088/1361-6528/ac5ee4	3.953			12.723
	Labchir N., Hannour A., Hssi A.A., Vincent D., Abouabassi K., Ihlal A., Sajjeddine M.	Synthesis and characterization of CoFe ₂ O ₄ thin films for solar absorber application	2020	Materials Science in Semiconductor Processing	111	104992	10.1016/j.mssp.2020.104992	4.644			14.697

	Labchir N. <i>et al.</i>	Highly efficient nanostructured CoFe ₂ O ₄ thin film electrodes for electrochemical degradation of rhodamine B	2020	Water Environment Research	92	759	10.1002/wer.1272	1.946			6.989
	Paul J., Philip J.	Design optimization and stability enhancement of modified inter-digital capacitive humidity transducer with cobalt ferrite nanoparticles as dielectric	2020	Transactions of the Institute of Measurement and Control	42	917	10.1177/0142331219889485	1.796			6.560
	Farhadi M., Jafari M.R., Shahmansouri M.	Effective mass dependence of the gyrotropic nihility in a BaM/6H-SiC multilayer structure	2020	Applied Physics A: Materials Science and Processing	126	49	10.1007/s00339-019-3231-3	2.584			8.811
37	Irimiciuc, S., Boidin, R., Bulai, G., Gurlui, S., Nemec, P., Nazabal, V., Focsa, C.	Laser ablation of (GeSe ₂) _{100-x} (Sb ₂ Se ₃) _x chalcogenide glasses: Influence of the target composition on the plasma plume dynamics	2017	Applied Surface Science	418	594 – 600	10.1016/j.apsusc.2016.09.016	4.439	7	41.620	
	Volfová L. <i>et al.</i>	Tailoring pulsed laser deposition fabricated copper oxide film by controlling plasma parameters	2023	Applied Surface Science	608	155128	10.1016/j.apsusc.2022.155128	7.392			22.549
	More-Chevalier J. <i>et al.</i>	Tailoring pulsed laser deposition of phosphorus doped Wox films from (PO ₂) ₄ (WO ₃) ₄ target by space-resolved optical emission spectroscopy.	2022	Thin Solid Films	742	139042	10.1016/j.tsf.2021.139042	2.358			8.166
	Irimiciuc S.A.	In situ optical and electrical analysis of transient plasmas generated by ns-laser ablation for Ag nanostructured film production	2021	Vacuum	193	110528	10.1016/j.vacuum.2021.110528	4.11			13.171
	Irimiciuc S. <i>et al.</i>	In-situ plasma monitoring by optical emission spectroscopy during pulsed laser deposition of doped Lu ₂ O ₃	2021	Applied Physics B: Lasers and Optics	127	140	10.1007/s00340-021-07689-4	2.171			7.631
	Irimiciuc S.A., Chertopalov S., Lancok J., Craciun V.	Langmuir probe technique for plasma characterization during pulsed laser deposition process	2021	Coatings	11	762	10.3390/coatings11070762	3.236			10.674

	Nica P.-E., Ursu C., Focsa C.	Long-range oscillations of a laser-produced carbon plasma recorded by an electrostatic energy analyzer	2021	Journal of Applied Physics	129	53305	10.1063/5.0031275	2.877			9.649
	Irimiciuc S.A., Chertopalov S., Craciun V., Novotný M., Lancok J.	Investigation of laser-produced plasma multistructuring by floating probe measurements and optical emission spectroscopy	2020	Plasma Processes and Polymers	17	2000136	10.1002/ppap.202000136	3.872			12.491
	Irimiciuc S.A., Nica P.-E., Agop M., Focsa C.	Target properties – Plasma dynamics relationship in laser ablation of metals: Common trends for fs, ps and ns irradiation regimes	2020	Applied Surface Science	506	144926	10.1016/j.apsusc.2019.144926	6.707			20.591
	Agop M., Cimpoesu N., Gurlui S., Irimiciuc S.A.	Investigations of transient plasma generated by laser ablation of hydroxyapatite during the pulsed laser deposition process	2020	Symmetry	12	132	10.3390/SYM12010132	2.713			9.180
	Irimiciuc S.A., Gurlui S., Agop M.	Particle distribution in transient plasmas generated by ns-laser ablation on ternary metallic alloys	2019	Applied Physics B: Lasers and Optics	125	190	10.1007/s00340-019-7302-0	1.817			6.620
	Liu L., Zheng X., Xiao X., Xu Y., Cui X., Cui J., Guo C., Yang J., Guo H.	Femtosecond laser ablation and photo-induced effects of As ₄₀ S ₆₀ , Ga _{0.8} As _{39.2} S ₆₀ and Ga _{0.8} As _{29.2} Sb ₁₀ S ₆₀ chalcogenide glasses	2019	Optical Materials Express	9	3582	10.1364/OME.9.003582	3.064			10.183
	Irimiciuc S.A., Enescu F., Agop A., Agop M.	Lorenz type behaviors in the dynamics of laser produced plasma	2019	Symmetry	11	1135	10.3390/sym11091135	2.645			8.986
	Focsa C., Gurlui S., Nica P., Agop M., Ziskind M.	Plume splitting and oscillatory behavior in transient plasmas generated by high-fluence laser ablation in vacuum	2017	Applied Surface Science	424	299	10.1016/j.apsusc.2017.03.273	4.439			14.111
38	Irimiciuc, S.A., Gurlui, S., Bulai, G., Nica, P., Agop, M., Focsa, C.	Langmuir probe investigation of transient plasmas generated by femtosecond laser ablation of several metals: Influence of the target physical properties on the plume dynamics	2017	Applied Surface Science	417	108 – 118	10.1016/j.apsusc.2017.03.055	4.439	6	48.557	
	Ajith A., Swapna M.N.S., Cabrera H., Sankararaman S.I.	Comprehensive Analysis of Copper Plasma: A Laser-Induced Breakdown Spectroscopic Approach	2023	Photonics	10	199	10.3390/photonics10020199	2.536			10.120

	Udrea R., Irimiciuc S.A., Craciun V.	Subthreshold Laser Ablation Measurements by Langmuir Probe Method for ns Irradiation of HfO ₂ and ZrO ₂	2023	Materials	16	536	10.3390/ma16020536	3.748			14.160
	Kautz E.J., Zelenyuk A., Gwalani B., Phillips M.C., Harilal S.S.	Gas-phase oxidation and nanoparticle formation in multi-element laser ablation plumes	2022	Physical Chemistry Chemical Physics	7		10.1039/d2cp02437c	3.945			14.817
	Irimiciuc S.A. <i>et al.</i>	Insight into the plasma oxidation process during pulsed laser deposition	2022	Plasma Processes and Polymers	19	2100102	10.1002/ppap.202100102	3.877			14.590
	More-Chevalier J. <i>et al.</i>	Tailoring pulsed laser deposition of phosphorus doped Wox films from (PO ₂) ₄ (WO ₃) ₄ target by space-resolved optical emission spectroscopy.	2022	Thin Solid Films	742	139042	10.1016/j.tsf.2021.139042	2.358			9.527
	Irimiciuc S.A. <i>et al.</i>	Understanding pulsed laser deposition process of copper halides via plasma diagnostics techniques	2021	Journal of Applied Physics	130	243302	10.1063/5.0077082	2.877			11.257
	Irimiciuc S.A. <i>et al.</i>	On the dynamics of transient plasmas generated by nanosecond laser ablation of several metals	2021	Materials	14	7336	10.3390/ma14237336	3.748			14.160
	Irimiciuc S.A. <i>et al.</i>	In situ optical and electrical analysis of transient plasmas generated by ns-laser ablation for Ag nanostructured film production	2021	Vacuum	193	110528	10.1016/j.vacuum.2021.110528	4.11			15.367
	Joy N., Kietzig A.-M.	In situ collection of nanoparticles during femtosecond laser machining in air	2021	Nanomaterials	11	2264	10.3390/nano11092264	5.719			20.730
	Wu D., Chan G.C.-Y., Mao X., Li Y., Russo R.E., Ding H., Zorba V.	Temporal and spatial study of differently charged ions emitted by ns-laser-produced tungsten plasmas using time-of-flight mass spectroscopy	2021	Plasma Science and Technology	23	95505	10.1088/2058-6272/ac08e1	1.842			7.807
	Irimiciuc S.A., Chertopalov S., Lancok J., Craciun V.	Langmuir probe technique for plasma characterization during pulsed laser deposition process	2021	Coatings	11	762	10.3390/coatings11070762	3.236			12.453
	Irimiciuc S.A. <i>et al.</i>	Novel approach for eeg signal analysis in a multifractal paradigm	2021	Symmetry	13	1024	10.3390/sym13061024	2.94			11.467

		of motions. Epileptic and eclamptic seizures as scale transitions									
	Irimiciuc S.A., Nica P.-E., Agop M., Focsa C.	Target properties – Plasma dynamics relationship in laser ablation of metals: Common trends for fs, ps and ns irradiation regimes	2020	Applied Surface Science	506	144926	10.1016/j.apsusc.2019.144926	6.707			24.023
	Agop M., Mihaila I., Nedeff F., Irimiciuc S.A.	Charged particle oscillations in transient plasmas generated by nanosecond laser ablation on MG target	2020	Symmetry	12	292	10.3390/sym12020292	2.713			10.710
	Nica P., Gurlui S., Agop M., Focsa C.	Oscillatory regimes of Langmuir probe current in femtosecond laser-produced plasmas: Experimental and theoretical investigations	2019	Applied Surface Science	481	125	10.1016/j.apsusc.2019.03.098	6.182			22.273
	Wu D., Sun L., Liu J., Yu X., Hai R., Feng C., Wang Z., Ding H.	Dynamics of prompt electrons, ions, and neutrals of nanosecond laser ablation of tungsten investigated using optical emission	2019	Physics of Plasmas	26	13303	10.1063/1.5081969	1.83			7.767
	Focsa C., Gurlui S., Nica P., Agop M., Ziskind M.	Plume splitting and oscillatory behavior in transient plasmas generated by high-fluence laser ablation in vacuum	2017	Applied Surface Science	424	299	10.1016/j.apsusc.2017.03.273	4.439			16.463
	Shaim Md.H.A., Wilson F.G., Elsayed-Ali H.E.	Aluminum multicharged ion generation from femtosecond laser plasma	2017	Journal of Applied Physics	121	185901	10.1063/1.4983008	2.176			8.920
39	Caraman, I., Dmitroglu, L., Evtodiev, I., Leontie, L., Untila, D., Hamzaoui, S., Zerdali, M., Şuşu, O., Bulai, G., Gurlui, S.	Optical properties of ZnO thin films obtained by heat treatment of Zn thin films on amorphous SiO ₂ substrates and single crystalline GaSe lamellas	2016	Thin Solid Films	617	103 – 107	10.1016/j.tsf.2016.01.027	1.879	10	13.774	
40	Gafton, E.V., Bulai, G., Caltun, O.F., Cervera, S., Macé, S., Trassinelli, M., Steydli, S., Vernhet, D.	Structural and magnetic properties of zinc ferrite thin films irradiated by 90 keV neon ions	2016	Applied Surface Science	379	171 – 178	10.1016/j.apsusc.2016.04.035	3.387	8	28.528	

	Qayoom M., Shah K.A., Asokan K., Sulania I., Dar G.N.	Modification of structural, topographical and magnetic properties induced by Ag ion irradiations in pure and divalent metal (Zn ²⁺ and Co ²⁺)-doped iron oxide thin films	2022	Journal of Materials Science: Materials in Electronics	33	5661	10.1007/s10854-022-07752-6	2.779			8.198
	Johan A., Adi W.A., Arsyad F.S., Setiabudidaya D.	Analysis crystal structure of magnetic materials Co _{1-x} Zn _x Fe ₂ O ₄	2019	Journal of Physics: Conference Series	1282	12032	10.1088/1742-6596/1282/1/012032	0			1.250
	Trandafir E.V. <i>et al.</i>	Effect of slow charged 90 keV Ne ⁸⁺ ions on zinc ferrite nanoparticles	2019	Materials Research Express	6	95077	10.1088/2053-1591/ab3174	1.929			6.073
	Singh J.P., Lee B.-H., Lim W.C., Shim C.-H., Lee J., Chae K.H.	Microstructure, local electronic structure and optical behaviour of zinc ferrite thin films on glass substrate	2018	Royal Society Open Science	5	181330	10.1098/rsos.181330	2.515			7.538
41	Virlan, C., Bulai, G., Caltun, O.F., Hempelmann, R., Pui, A.	Rare earth metals' influence on the heat generating capability of cobalt ferrite nanoparticles	2016	Ceramics International	42	11958 – 11965	10.1016/j.ceramint.2016.04.121	2.986	5	40.832	
	Khan N.-U.-H. <i>et al.</i>	Impact of cerium substitution cobalt–zinc spinel ferrites for the applications of high frequency devices	2023	Physica B: Condensed Matter	660	414873	10.1016/j.physb.2023.414873	2.988			13.952
	Martin E. <i>et al.</i>	Deleterious effect of rare earth elements substitution on the auxetic behavior of CoFe ₂ O ₄ thin films	2023	Journal of Alloys and Compounds	935	168082	10.1016/j.jallcom.2022.168082	6.371			27.484
	Asandulesa M. <i>et al.</i>	Cobalt Ferrite/Polyetherimide Composites as Thermally Stable Materials for Electromagnetic Interference Shielding Uses	2023	International Journal of Molecular Sciences	24	999	10.3390/ijms24020999	6.208			26.832
	Ahmad S.I.	Nano cobalt ferrites: Doping, Structural, Low-temperature, and room temperature magnetic and dielectric properties – A comprehensive review	2022	Journal of Magnetism and Magnetic Materials	562	169840	10.1016/j.jmmm.2022.169840	3.097			14.388

	Rao Daruvuri H., Chandu K., Murali N., Parajuli D., Mulushoa S Y., Dasari M.P.	Effect on structural, dc electrical resistivity, and magnetic properties by the substitution of Zn ²⁺ on Co-Cu nano ferrite	2022	Inorganic Chemistry Communications	143	109794	10.1016/j.inoche.2022.109794	3.428			15.712
	Nandhini G., Shobana M.K.	Role of ferrite nanoparticles in hyperthermia applications	2022	Journal of Magnetism and Magnetic Materials	552	169236	10.1016/j.jmmm.2022.169236	3.097			14.388
	Anjum S., Zeeshan T., Waseem S., Waseem I., Mustafa Z.	Investigation of cationic distribution, Y–K angles, and optical and dielectric properties of as-synthesized cerium-doped cobalt nano-ferrites prepared by co-precipitation method	2022	Applied Physics A: Materials Science and Processing	128	383	10.1007/s00339-022-05470-8	2.983			13.932
	Ghorbani H. <i>et al.</i>	Effect of Yb doping on the structural and magnetic properties of cobalt ferrite nanoparticles	2022	Materials Research Bulletin	147	111642	10.1016/j.materresbull.2021.111642	5.6			24.400
	Kiani M.N. <i>et al.</i>	Synthesis and Characterization of Cobalt-Doped Ferrites for Biomedical Applications	2022	ACS Omega			10.1021/acsomega.2c05226	4.132			18.528
	Parajuli D., Tadesse P., Murali N., Samatha K.	Correlation between the structural, magnetic, and dc resistivity properties of Co _{0.5} M _{0.5} -xCo _x Fe ₂ O ₄ (M = Mg, and Zn) nano ferrites	2022	Applied Physics A: Materials Science and Processing	128	58	10.1007/s00339-021-05211-3	2.983			13.932
	Janani V. <i>et al.</i>	Tailoring the hyperthermia potential of magnetite nanoparticles via gadolinium ION substitution	2021	Ceramics International	47	31399	10.1016/j.ceramint.2021.08.015	5.532			24.128
	Hirosawa F., Iwasaki T.	A comparative study of the magnetic induction heating properties of rare earth (RE = Y, La, Ce, Pr, Nd, Gd and Yb)-substituted magnesium–zinc ferrites	2021	Solid State Sciences	118	106655	10.1016/j.solidstatesciences.2021.106655	3.752			17.008
	Zhang Y., Sun A., Suonan Z.	Effect of rare-earth (Sm, Ce, and La) ions doping on the lattice structure and magnetic properties of Zn–Ba–Co ferrites by sol–gel auto-combustion method	2021	Journal of Materials Science: Materials in Electronics	32	16505	10.1007/s10854-021-06207-8	2.779			13.116

	Himakar P. <i>et al.</i>	Magnetic and DC Electrical Properties of Cu Doped Co–Zn Nanoferrites	2021	Journal of Electronic Materials	50	3249	10.1007/s11664-021-08760-8	2.047			10.188
	Kershi R.M.	Rare-earth ions as a key influencer on the magnetic, spectroscopic and elastic properties of $\text{Er}_x\text{Zn}_{0.2}\text{Co}_{0.8}\text{Fe}_2-\gamma\text{O}_4$ nanoparticles	2021	Journal of Alloys and Compounds	864	158114	10.1016/j.jallcom.2020.158114	6.371			27.484
	Meena S., Anantharaju K.S., Vidya Y.S., Renuka L., Uma B., Sharma S.C., Prasad B D., More S.S.	Enhanced sunlight driven photocatalytic activity and electrochemical sensing properties of Ce-doped MnFe_2O_4 nano magnetic ferrites	2021	Ceramics International	47	14760	10.1016/j.ceramint.2020.11.105	5.532			24.128
	De León Prado L.E., Cortés Hernández D.A., Escobedo Bocardo J.C., Hurtado López G.F.	Influence of the heat treatment conditions on the properties of gallium-strontium-substituted manganese ferrites designed for magnetic hyperthermia applications	2021	Ceramics International	47	7069	10.1016/j.ceramint.2020.11.058	5.532			24.128
	Mmelesi O.K. <i>et al.</i>	Cobalt ferrite nanoparticles and nanocomposites: Photocatalytic, antimicrobial activity and toxicity in water treatment	2021	Materials Science in Semiconductor Processing	123	105523	10.1016/j.mssp.2020.105523	4.644			20.576
	Suo N., Sun A., Yu L., Zuo Z., Pan X., Zhang W., Zhao X., Zhang Y., Shao L.	Effect of different rare earth (RE = Y^{3+} , Sm^{3+} , La^{3+} , and Yb^{3+}) ions doped on the magnetic properties of Ni–Cu–Co ferrite nanomagnetic materials	2021	Journal of Materials Science: Materials in Electronics	32	246	10.1007/s10854-020-04762-0	2.779			13.116
	Jesus Mercy S. <i>et al.</i>	Microstructural, thermal, electrical and magnetic analysis of Mg^{2+} substituted Cobalt ferrite	2020	Applied Physics A: Materials Science and Processing	126	873	10.1007/s00339-020-04048-6	2.584			12.336
	Sharifianjazi F. <i>et al.</i>	Magnetic CoFe_2O_4 nanoparticles doped with metal ions: A review	2020	Ceramics International	46	18391	10.1016/j.ceramint.2020.04.202	4.527			20.108
	Qamar S., Akhtar M.N., Batoo K.M., Raslan E.H.	Structural and magnetic features of Ce doped Co–Cu–Zn spinel nanoferrites prepared using sol gel self-ignition method	2020	Ceramics International	46	14481	10.1016/j.ceramint.2020.02.246	4.527			20.108

	Jaison D. <i>et al.</i>	Effect of Gd ³⁺ -substitution on proton relaxation and magnetic hyperthermia efficiency of cobalt ferrite nanoparticles	2020	Materials Research Express	7	64009	10.1088/2053-1591/ab9378	1.62			8.480
	Kamran M., Anis-ur-Rehman M.	Enhanced transport properties in Ce doped cobalt ferrites nanoparticles for resistive RAM applications	2020	Journal of Alloys and Compounds	822	153583	10.1016/j.jallcom.2019.153583	5.316			23.264
	Virlean C., Tudorache F., Pui A.	Tertiary NiCuZn ferrites for improved humidity sensors: A systematic study	2020	Arabian Journal of Chemistry	13	2066	10.1016/j.arabjc.2018.03.005				2.000
	Ahmad S.I., Rauf A., Mohammed T., Bahafi A., Ravi Kumar D., Suresh M.B.	Dielectric, impedance, AC conductivity and low-temperature magnetic studies of Ce and Sm co-substituted nanocrystalline cobalt ferrite	2019	Journal of Magnetism and Magnetic Materials	492	165666	10.1016/j.jmmm.2019.165666	2.717			12.868
	Almessiere M.A., Slimani Y., Kurtan U., Guner S., Sertkol M., Shirsath S.E., Akhtar S., Baykal A., Ercan I.	Structural, magnetic, optical properties and cation distribution of nanosized Co _{0.7} Zn _{0.3} Tm _x Fe _{2-x} O ₄ (0.0 ≤ x ≤ 0.04) spinel ferrites synthesized by ultrasonic irradiation	2019	Ultrasonics Sonochemistry	58	104638	10.1016/j.ultsonch.2019.104638	6.513			28.052
	Roman T. <i>et al.</i>	Structural changes of cerium doped copper ferrites during sintering process and magneto-electrical properties assessment	2019	Ceramics International	45	17243	10.1016/j.ceramint.2019.05.280	3.83			17.320
	Naik C.C., Salker A.V.	Structural, magnetic and dielectric properties of Dy ³⁺ and Sm ³⁺ substituted Co-Cu ferrite	2019	Materials Research Express	6	66112	10.1088/2053-1591/ab0dd0	1.929			9.716
	Yadav R.S., Kuřitka I., Vilcakova J., Havlica J., Kalina L., Urbánek P., Machovsky M., Skoda D., Masař M.	Influence of Gd ³⁺ -substitution on structural, magnetic, dielectric and modulus spectroscopic characteristics of ZnFe ₂ O ₄ spinel ferrite nanoparticles	2018	Journal of Materials Science: Materials in Electronics	29	15878	10.1007/s10854-018-9674-z	2.195			10.780
	Ahmad S.I., Ansari S.A., Ravi Kumar D.	Structural, morphological, magnetic properties and cation distribution of Ce and Sm co-substituted nano crystalline cobalt	2018	Materials Chemistry and Physics	208	248	10.1016/j.matchemphys.2018.01.050	2.781			13.124

		ferrite									
	Naik C.C., Salker A.V.	Tailoring magnetic and dielectric properties of Co _{0.9} Cu _{0.1} Fe ₂ O ₄ with substitution of small fractions of Gd ³⁺ ions	2018	Journal of Materials Science: Materials in Electronics	29	5380	10.1007/s10854-017-8504-z	2.195			10.780
	Virlean C., Tudorache F., Pui A.	Increased sensibility of mixed ferrite humidity sensors by subsequent heat treatment	2017	International Journal of Applied Ceramic Technology	14	1174	10.1111/ijac.12706	1.165			6.660
	Ahmad F., Zhou Y.	Pitfalls and Challenges in Nanotoxicology: A Case of Cobalt Ferrite (CoFe ₂ O ₄) Nanocomposites	2017	Chemical Research in Toxicology	30	492	10.1021/acs.chemrestox.6b00377	3.432			15.728
	Virlean C., Tudorache F., Pui A.	Increased sensibility of mixed ferrite humidity sensors by subsequent heat treatment	2017	International Journal of Applied Ceramic Technology	14	1174	10.1111/ijac.12706	1.048			6.192
	Ahmad F., Zhou Y.	Pitfalls and Challenges in Nanotoxicology: A Case of Cobalt Ferrite (CoFe ₂ O ₄) Nanocomposites	2017	Chemical Research in Toxicology	30	492	10.1021/acs.chemrestox.6b00377	3.278			15.112
42	Bulai, G., Dumitru, I., Pinteala, M., Focsa, C., Gurlui, S.	Magnetic nanoparticles generated by laser ablation in liquid	2016	Digest Journal of Nanomaterials and Biostructures	11	283 – 291		0.836	5	15.032	
43	Cimpoeșu, N., Trincă, L.C., Dascălu, G., Stanciu, S., Gurlui, S.O., Mareci, D.	Electrochemical characterization of a new biodegradable FeMnSi alloy coated with hydroxyapatite-zirconia by PLD technique	2016	Journal of Chemistry	2016		10.1155/2016/9520972	1.3	6	17.167	
	Nastasa R.O., Tufescu A., Munteanu C., Istrate B., Przybył A., Ianus G.	Contact Stress Simulation for Mg-0.5Ca-xMn Alloys used for Medical Application	2022	Archives of Metallurgy and Materials	67	405	10.24425/amm.2022.137771	0.633			3.777
	Roman A.M. <i>et al.</i>	In-Vitro Analysis of FeMn-Si Smart Biodegradable Alloy	2022	Materials	15	568	10.3390/ma15020568	3.748			14.160
	Wang Y., Venezuela J., Dargusch M.	Biodegradable shape memory alloys: Progress and prospects	2021	Biomaterials	279	121215	10.1016/j.biomaterials.2021.121215	15.304			52.680

	Gășior G., Szczepański J., Radtke A.	Biodegradable iron-based materials—what was done and what more can be done?	2021	Materials	14	3381	10.3390/ma14123381	3.748			14.160
	Trincă L.C. <i>et al.</i>	Evaluation of in vitro corrosion resistance and in vivo osseointegration properties of a FeMnSiCa alloy as potential degradable implant biomaterial	2021	Materials Science and Engineering C	118	111436	10.1016/j.msec.2020.111436	1.842			7.807
	Popescu S.D. <i>et al.</i>	Phases and compounds composition analyze of ZnMgCa biodegradable alloy	2019	IOP Conference Series: Materials Science and Engineering	572	12019	10.1088/1757-899X/572/1/012019	0			1.667
	Cimpoeșu N., Săndulache F., Istrate B., Cimpoeșu R., Zegan G.	Electrochemical behavior of biodegradable FeMnSi–MgCa alloy	2018	Metals	8	541	10.3390/met8070541	2.259			9.197
	Dobrița S. <i>et al.</i>	Preliminary Results on the Corrosion Behaviour of a New Biodegradable Metallic Material Based on Zinc	2018	IOP Conference Series: Materials Science and Engineering	374	12027	10.1088/1757-899X/374/1/012027	0			1.667
	Zaharia M.G., Stanciu S., Cimpoesu R., Ionita I., Cimpoesu N.	Preliminary results on effect of H ₂ S on P265GH commercial material for natural gases and petroleum transportation	2018	Applied Surface Science	438	20	10.1016/j.apsusc.2017.10.093	5.155			18.850
	Wang H., Chang M., Zheng Y., Li N., Chen S., Wan Y., Yuan F., Shao W., Xu S.	Improved Electrochemical Performance of Li _{1.25} Ni _{0.2} Co _{0.333} Fe _{0.133} Mn _{0.333} O ₂ Cathode Material Synthesized by the Polyvinyl Alcohol Auxiliary Sol-Gel Process for Lithium-Ion Batteries	2018	Advances in Condensed Matter Physics	2018	1217639	10.1155/2018/1217639	0.653			3.843
	Prendota W., Goc K., Miyazawa S., Takasaki A., Rybicki D., Kapusta C.	Influence of carbon addition to Fe–Mn–Si type alloy on the structure and shape memory effect	2018	Advances in Materials Science and Engineering	2018	6950876	10.1155/2018/6950876	2.098			8.660
44	Bulai, G., Diamandescu, L., Dumitru, I., Gurlui, S., Feder, M., Caltun, O.F.	Effect of rare earth substitution in cobalt ferrite bulk materials	2015	Journal of Magnetism and Magnetic Materials	390	123 – 131	10.1016/j.jmmm.2015.04.089	2.357	6	27.737	

	Gulati S., Gokhale S., Luthra V.	Effects of Yb ³⁺ Doping on Structural, Morphological, and Temperature Dependent Magnetic Properties of MnFe ₂ O ₄ Nanoparticles	2023	Journal of Superconductivity and Novel Magnetism	36	1033	10.1007/s10948-023-06534-3	1.675			7.250
	Martin E., Grenier S., Barre S., Versini G., Blanc N., Boudet N., Roulland F., Pourroy G., Viart N., Lefèvre C.	Deleterious effect of rare earth elements substitution on the auxetic behavior of CoFe ₂ O ₄ thin films	2023	Journal of Alloys and Compounds	935	168082	10.1016/j.jallcom.2022.168082	6.371			22.903
	Gad S.A., Hammad A.B.A., ElNahrawy A.M., Shaban H., Azab A.A., Moustafa A.M.	Structural, optical, photoluminescence, and magnetic properties of Mo _{0.6-x} Ti _{0.3} Zn _{0.1} Er _x O ₃ nanorods films fabricated by sol-gel/spin coating technique	2023	Journal of Materials Science: Materials in Electronics	34	460	10.1007/s10854-023-09904-8	2.779			10.930
	Yunasfi Y., Mashadi M., Winatapura D.S., Setiawan J., Taryana Y., Gunanto Y.E., Adi W.A.	Enhanced Magnetic and Microwave Absorbing Properties of Nd ³⁺ Ion Doped CoFe ₂ O ₄ by Solid-State Reaction Method	2023	Physica Status Solidi (A) Applications and Materials Science	220	2200718	10.1002/pssa.202200718	0.86			4.533
	Gatchakayala N.B., Dachuru R.S.R.	Synthesis of CoFe ₂ O ₄ Nanomaterials via Sol-Gel Auto-Combustion Method using Different Chelating Agent, and Its Effects on Magnetic and Dielectric Properties	2023	Physica Status Solidi (B) Basic Research			10.1002/pssb.202300010	0.982			4.940
	Kamran M., Anisur-Rehman M.	Study of dielectric and electrical properties in Co-(Fe-Ce-Nd) nanosized spinel ferrites	2023	Materials Science in Semiconductor Processing	153	107111	10.1016/j.mssp.2022.107111	4.644			17.147
	Qin X., Zhang T., Wang J., Zhao R., Ma Y., Wang F., Xu	Influence of Ce-Mn co-doping on the structure and magnetic properties of cobalt ferrites	2022	Journal of Alloys and Compounds	929	167256	10.1016/j.jallcom.2022.167256	6.371			22.903

	Ahmad S.I.	Nano cobalt ferrites: Doping, Structural, Low-temperature, and room temperature magnetic and dielectric properties – A comprehensive review	2022	Journal of Magnetism and Magnetic Materials	562	169840	10.1016/j.jmmm.2022.169840	3.097			11.990
	Nairan A., Khan U., Wu D., Gao J.	Structural and temperature-dependent magnetic characteristics of Ho doped CoFe ₂ O ₄ nanostructures	2022	Ceramics International	48	32164	10.1016/j.ceramint.2022.07.158	5.532			20.107
	Srinivasamurthy K.M., Kubrin S.P., Pattar V., Yahia I.S., Zahran H.Y., V J.A.	Effect of Gamma Irradiation on the Structural and Magnetic Properties of Cerium 1 mol%–Doped Cobalt–Nickel Ferrites	2022	Journal of Superconductivity and Novel Magnetism	35	2873	10.1007/s10948-022-06311-8	1.675			7.250
	Zhu Y., Zhou P., Sun K., Li H.-F.	Structural evolution of single-crystal RECrO ₃ (RE = Y, Eu–Lu) orthochromates	2022	Journal of Solid State Chemistry	313	123298	10.1016/j.jssc.2022.123298	3.656			13.853
	Kamran M., Anisur-Rehman M.	Resistive switching effect in RE-Doped cobalt ferrite nanoparticles	2022	Ceramics International	48	16912	10.1016/j.ceramint.2022.02.246	5.532			20.107
	Mahmoud W.E., Al-Ghamdi A.A., Al-Turki Y.A., Al-Amri A.M.	The physical and photocatalytic properties of thallium doped cobalt ferrites for efficient hydrogen fuel production	2022	Ceramics International	48	15082	10.1016/j.ceramint.2022.02.037	5.532			20.107
	Ghorbani H. <i>et al.</i>	Effect of Yb doping on the structural and magnetic properties of cobalt ferrite nanoparticles	2022	Materials Research Bulletin	147	111642	10.1016/j.materresbull.2021.111642	5.6			20.333
	Srinivasamurthy K.M. <i>et al.</i>	Dosimetry induced modifications in structural, magnetic and Mössbauer spectroscopy studies of ⁶⁰ Co γ -irradiated Co _{0.5} Ni _{0.5} Fe ₂ O ₄	2021	Radiation Physics and Chemistry	189	109781	10.1016/j.radphyschem.2021.109781	2.776			10.920
	Denisenko Y.G. <i>et al.</i>	Exploration of the structural, spectroscopic and thermal properties of double sulfate monohydrate NaSm(SO ₄) ₂ ·H ₂ O and its thermal decomposition product NaSm(SO ₄) ₂	2021	Advanced Powder Technology	32	3943	10.1016/j.appt.2021.08.009	4.969			18.230

	Siva K.V., Kumar A., Arockiarajan A.	Structural, magnetic and magnetoelectric investigations on CoFe ₂ O ₄ prepared via various wet chemical synthesis route : A Comparative Study	2021	Journal of Magnetism and Magnetic Materials	535	168065	10.1016/j.jmmm.2021.168065	3.097			11.990
	Sharma M.P., Uthra D., Tewari H.S.	Synthesis and characterization of cerium substituted cobalt ferrite	2021	AIP Conference Proceedings	2352	20058	10.1063/5.0052392	0			1.667
	Hirosawa F., Iwasaki T.	A comparative study of the magnetic induction heating properties of rare earth (RE = Y, La, Ce, Pr, Nd, Gd and Yb)-substituted magnesium–zinc ferrites	2021	Solid State Sciences	118	106655	10.1016/j.solidstatesciences.2021.106655	3.752			14.173
	Sharma S., Verma M.K., Sharma N.D., Choudhary N., Singh S., Singh D.	Rare-earth doped Ni–Co ferrites synthesized by Pechini method: Cation distribution and high temperature magnetic studies	2021	Ceramics International	47	17510	10.1016/j.ceramint.2021.03.069	5.532			20.107
	Hassan N., Want B.	Improved Magneto-dielectric coupling in Yb-doped PbZrTiO ₃ –Nd-doped CoFe ₂ O ₄ -based multiferroic composites	2021	Applied Physics A: Materials Science and Processing	127	365	10.1007/s00339-021-04538-1	2.983			11.610
	Pydiraju T.R.K., <i>et al.</i>	Co-Cd nanoferrite for high frequency application with phenomenal rise in DC resistivity	2021	Journal of Magnetism and Magnetic Materials	524	167662	10.1016/j.jmmm.2020.167662	3.097			11.990
	Chikhale R.N., Kanade S.A., Bhatia P.G.	Structural, morphological, and magnetic study of low temperature synthesized Co _{0.75} Ni _{0.25} Fe _{1.95} Dy _{0.05} O ₄ nano ferrite	2021	Physica Scripta	96	45801	10.1088/1402-4896/abdd53	3.081			11.937
	Mmelesi O.K., <i>et al.</i>	Cobalt ferrite nanoparticles and nanocomposites: Photocatalytic, antimicrobial activity and toxicity in water treatment	2021	Materials Science in Semiconductor Processing	123	105523	10.1016/j.mssp.2020.105523	4.644			17.147
	Ati A.A., Abdalsalam A.H., Hasan A.S.	Thermal, microstructural and magnetic properties of manganese substitution cobalt ferrite prepared via co-precipitation method	2021	Journal of Materials Science: Materials in Electronics	32	3019	10.1007/s10854-020-05053-4	2.779			10.930

	Samy A.M., Aly E.H.	Effects of Interdomain and Intradomain Pores of Cu-Zn Ferrite Substituted with Nd Investigated Using Positron Annihilation Lifetime Technique	2021	Journal of Materials Engineering and Performance	30	1530	10.1007/s11665-020-05432-2	2.036			8.453
	Reddy M.V., Jayaraman T.V., Patil N., Das D.	Giant magnetoelastic properties in Ce-substituted and magnetic field processed cobalt ferrite	2020	Journal of Alloys and Compounds	837	155501	10.1016/j.jallcom.2020.155501	5.316			19.387
	Albetran H. <i>et al.</i>	Synthesis, characterization and magnetic investigation of Er-substituted electrospun NiFe ₂ O ₄ nanofibers	2020	Physica Scripta	95	75801	10.1088/1402-4896/ab8b7d	2.487			9.957
	Kershi R.M.	Spectroscopic, elastic, magnetic and optical studies of nanocrystallite and nanoferrofluids Co ferrites towards optoelectronic applications	2020	Materials Chemistry and Physics	248	122941	10.1016/j.matchemphys.2020.122941	4.094			15.313
	Mohamed W.S., Abu-Dief A.M.	Impact of rare earth europium (RE-Eu ³⁺) ions substitution on microstructural, optical and magnetic properties of CoFe _{2-x} Eu _x O ₄ nanosystems	2020	Ceramics International	46	16196	10.1016/j.ceramint.2020.03.175	4.527			16.757
	Amiar Rodin N.L., Sahar M.R., Mohd-Noor F.	Magnetic analysis of cobalt oxide nanoparticles comprised boro-tellurite glass with erbium lanthanide	2020	Journal of Magnetism and Magnetic Materials	496	165931	10.1016/j.jmmm.2019.165931	3.097			11.990
	Zheng Z., Wu X., Feng Q., Harris V.G.	Low loss and tailored high-frequency performances of BaO-doped NiZnCo magneto-dielectric ferrites	2020	Journal of the American Ceramic Society	103	1248	10.1111/jace.16831	3.784			14.280
	Caldeira L.E., Guaglianoni W.C., Venturini J., Arcaro S., Bergmann C.P., Bragança S.R.	Sintering-dependent mechanical and magnetic properties of spinel cobalt ferrite (CoFe ₂ O ₄) ceramics prepared via sol-gel synthesis	2020	Ceramics International	46	2465	10.1016/j.ceramint.2019.09.240	4.527			16.757
	Ghone D.M., Premkumar S., Patankar K.K., Kaushik S.D., Mathe V.L.	Enhanced strain derivative of Ho substituted cobalt ferrite and improved magnetoelectric coupling in co-sintered bi-layered ME composites	2020	Sensors and Actuators, A: Physical	301	111716	10.1016/j.sna.2019.111716	3.407			13.023

	Sadaqat A. <i>et al.</i>	Structural, optical and magnetic properties of Tb ³⁺ substituted Co nanoferrites prepared via sonochemical approach	2019	Ceramics International	45	22538	10.1016/j.ceramint.2019.07.280	3.83			14.433
	Keswani B.C., Patil S.I., Kolekar Y.D., Ramana C.V.	Improved magnetostrictive properties of cobalt ferrite (CoFe ₂ O ₄) by Mn and Dy co-substitution for magneto-mechanical sensors	2019	Journal of Applied Physics	126	174503	10.1063/1.5114815	2.286			9.287
	Temerbulatova N.T. <i>et al.</i>	Rare earths doped ferrites, characterized by Time Differential $\gamma\gamma$ Perturbed Angle Correlations method	2019	Journal of Solid State Chemistry	277	281	10.1016/j.jssc.2019.05.029	2.726			10.753
	Dun C., Xi G., Heng X., Zhang Y., Liu Y., Xing X.	Comparative study on the magnetostrictive property of cobalt ferrite synthesized by different methods from spent Li-ion batteries	2019	Ceramics International	45	8539	10.1016/j.ceramint.2019.01.170	3.83			14.433
	Almessiere M.A., Slimani Y., Ali S., Baykal A., Ercan I., Sozeri H.	Nd ³⁺ Ion-Substituted Co _{1-2x} Ni _x Mn _x Fe _{2-y} Nd _y O ₄ Nanoparticles: Structural, Morphological, and Magnetic Investigations	2019	Journal of Inorganic and Organometallic Polymers and Materials	29	783	10.1007/s10904-018-1052-z	1.941			8.137
	Li L.-Z., Zhong X.-X., Wang R., Tu X.-Q., He L., Wang F.-H.	Effects of Ce substitution on the structural and electromagnetic properties of NiZn ferrite	2019	Journal of Magnetism and Magnetic Materials	475	1	10.1016/j.jmmm.2018.11.110	3.097			11.990
	Rather M.U.D., Samad R., Want B.	Magnetic field control of electric properties in gadolinium doped BaTiO ₃ -CoFe ₂ O ₄ particulate multiferroic composites	2019	Materials Research Express	6	66310	10.1088/2053-1591/ab0d9a	1.929			8.097
	Naik C.C., Salker A.V.	Structural, magnetic and dielectric properties of Dy ³⁺ and Sm ³⁺ substituted Co-Cu ferrite	2019	Materials Research Express	6	66112	10.1088/2053-1591/ab0dd0	1.929			8.097
	Dhiman M., Singhal S.	Enhanced catalytic properties of rare-earth substituted cobalt ferrites fabricated by sol-gel auto-combustion route	2019	Materials Today: Proceedings	14	435	10.1016/j.matpr.2019.04.166	0			1.667

	Anwar A., Yousuf M.A., Tahir B., Shahid M., Imran M., Khan M.A., Sher M., Warsi M.F.	New Er ³⁺ -substituted NiFe ₂ O ₄ nanoparticles and their nano-heterostructures with graphene for visible light-driven photo-catalysis and other potential applications	2019	Current Nanoscience	15	267	10.2174/1573413714666180911101337	1.836			7.787
	Dun C., Xi G., Zhang Y., Zhao T., Liu Y., Heng X., Yao L.	Structural, magnetic and magnetostrictive properties of Co _{1-x} Li _x Fe ₂ O ₄ synthesized by cathode materials of spent Li-ion batteries	2018	Ceramics International	44	20984	10.1016/j.ceramint.2018.08.133	3.45			13.167
	Rather M.U.D., Samad R., Want B.	Improved magnetoelectric effect in ytterbium doped BaTiO ₃ – CoFe ₂ O ₄ particulate multiferroic composites	2018	Journal of Alloys and Compounds	755	89	10.1016/j.jallcom.2018.04.289	4.175			15.583
	Jain R., Luthra V., Gokhale S.	Probing influence of rare earth ions (Er ³⁺ , Dy ³⁺ and Gd ³⁺) on structural, magnetic and optical properties of magnetite nanoparticles	2018	Journal of Magnetism and Magnetic Materials	456	179	10.1016/j.jmmm.2018.02.029	2.683			10.610
	Dun C., Xi G., Zhao T., Zhang Y., Liu Y., Yang L.	Influence of Er ³⁺ substitution on the structural, magnetic, and magnetostrictive properties of cobalt ferrite synthesized from spent Li-ion batteries	2018	Ceramics International	44	9276	10.1016/j.ceramint.2018.02.139	3.45			13.167
	Xi G., Zhao T., Wang L., Dun C., Zhang Y.	Effect of doping rare earths on magnetostriction characteristics of CoFe ₂ O ₄ prepared from spent Li-ion batteries	2018	Physica B: Condensed Matter	534	76	10.1016/j.physb.2018.01.036	1.874			7.913
	Naik C.C., Salker A.V.	Tailoring magnetic and dielectric properties of Co _{0.9} Cu _{0.1} Fe ₂ O ₄ with substitution of small fractions of Gd ³⁺ ions	2018	Journal of Materials Science: Materials in Electronics	29	5380	10.1007/s10854-017-8504-z	2.195			8.983
	Šoka M., Ušáková M., Dosoudil R., Ušák E., Lokaj J.	Effect of lanthanum substitution on structural and magnetic properties of nickel zinc ferrites	2018	AIP Advances	8	47802	10.1063/1.4993530	1.579			6.930
	Ghone D.M., Mathe V.L., Patankar K.K., Kaushik S.D.	Microstructure, lattice strain, magnetic and magnetostriction properties of holmium substituted cobalt ferrites obtained by co-precipitation method	2018	Journal of Alloys and Compounds	739	52	10.1016/j.jallcom.2017.12.219	4.175			15.583

	Mammo T.W., Murali N., Sileshi Y.M., Arunamani T.	Effect of Ce-substitution on structural, morphological, magnetic and DC electrical resistivity of Co- ferrite materials	2018	Physica B: Condensed Matter	531	164	10.1016/j.physb.2017.1 2.049	1.874			7.913
	Kharat S.P., Swadiptra R., Kambale R.C., Kolekar Y.D., Ramana C.V.	Enhanced magnetostrictive properties of nanocrystalline Dy ³⁺ substituted Fe-rich Co _{0.8} Fe _{2.2} O ₄ for sensor applications	2017	Journal of Applied Physics	122	164101	10.1063/1.5005519	2.176			8.920
	Anantharamaiah P.N., Joy P.A.	Effect of size and site preference of trivalent non-magnetic metal ions (Al ³⁺ , Ga ³⁺ , In ³⁺) substituted for Fe ³⁺ on the magnetostrictive properties of sintered CoFe ₂ O ₄	2017	Journal of Physics D: Applied Physics	50	435005	10.1088/1361- 6463/aa8af6	2.373			9.577
	Azizi Z.S., Tehranchi M.M., Hamidi S.M., Vakili S.H., Pourmahdian S.	Engineered magneto-optical response of cobalt ferrite thin films deposited on self-assembled colloidal crystal	2017	Thin Solid Films	638	81	10.1016/j.tsf.2017.07.0 32	1.939			8.130
	Ateia E., El- Bassuony A.A.H.	Fascinating improvement in physical properties of Cd/Co nanoferrites using different rare earth ions	2017	Journal of Materials Science: Materials in Electronics	28	11482	10.1007/s10854-017- 6944-0	2.324			9.413
	Sharma R., Komal, Kumar V., Bansal S., Singhal S.	Boosting the catalytic performance of pristine CoFe ₂ O ₄ with yttrium (Y ³⁺) inclusion in the spinel structure	2017	Materials Research Bulletin	90	94	10.1016/j.materresbull. 2017.01.049	2.873			11.243
	Xi G., Wang L., Zhao T.	Magnetic and magnetostrictive properties of RE-doped Cu-Co ferrite fabricated from spent lithium-ion batteries	2017	Journal of Magnetism and Magnetic Materials	424	130	10.1016/j.jmmm.2016.1 0.031	3.046			11.820
	Vadivel M., Ramesh Babu R., Arivanandhan M., Ramamurthi K.	Structural, Spectral, Morphological, Dielectric, Magnetic, and Optical Properties of La-Ni ions co-substituted CoFe ₂ O ₄ Nanoparticles	2017	Journal of Superconductivity and Novel Magnetism	30	441	10.1007/s10948-016- 3760-3	1.142			5.473
	El Foulani A.-H., Aamouche A., Jedaa A., Amjoud M., Ouzaoit K.	Catalytic activity of ferrite nanostructure monitored with infrared spectroscopy	2017	Journal of Materials and Environmental Science	8	863		0			1.667
	Bhame S.D., Joy	Magnetoelastic properties of	2017	Chemical Physics	685	465	10.1016/j.cplett.2017.08	1.815			7.717

	P.A.	terbium substituted cobalt ferrite		Letters			.006				
	Haik Dunn I., Jacobo S.E., Bercoff P.G.	Structural and magnetic influence of yttrium-for-iron substitution in cobalt ferrite	2017	Journal of Alloys and Compounds	691	130	10.1016/j.jallcom.2016. 08.223	3.779			14.263
	Yan Z., Luo J.	Effects of Ce[sbnd]Zn co- substitution on structure, magnetic and microwave absorption properties of nickel ferrite nanoparticles	2017	Journal of Alloys and Compounds	695	1185	10.1016/j.jallcom.2016. 08.333	3.779			14.263
	Alves T.E.P., Pessoni H.V.S., Franco A.	The effect of Y3+ substitution on the structural, optical band-gap, and magnetic properties of cobalt ferrite nanoparticles	2017	Physical Chemistry Chemical Physics	19	16395	10.1039/c7cp02167d	3.906			14.687
	Want B., Samad R., Rather M.U.D.	Effect of neodymium on the magnetic and dielectric properties of Nickel-cobalt ferrite	2017	Journal of Magnetism	22	450	10.4283/JMAG.2017.22 .3.450	0.713			4.043
	Ahmad Z., Atiq S., Abbas S.K., Ramay S.M., Riaz S., Naseem S.	Structural and complex impedance spectroscopic studies of Mg- substituted CoFe2O4	2016	Ceramics International	42	18271	10.1016/j.ceramint.201 6.08.154	2.986			11.620
	Kadam A.A., Rajpure K.Y.	Compositional variation of structural, electrical and magnetic properties of Dy substituted Ni–Co spinel ferrite	2016	Journal of Materials Science: Materials in Electronics	27	10484	10.1007/s10854-016- 5157-2	2.019			8.397
	Huang T.-X., Li L.- Z., Yang J.	Structural and static magnetic properties of ce-substituted NiZnCo ferrite nanopowders	2016	Optoelectronics and Advanced Materials, Rapid Communications	10	590		0.47			3.233
	Anantharamaiah P.N., Joy P.A.	Enhancing the strain sensitivity of CoFe2O4 at low magnetic fields without affecting the magnetostriction coefficient by substitution of small amounts of Mg for Fe	2016	Physical Chemistry Chemical Physics	18	10516	10.1039/c6cp00369a	4.123			15.410
	Kakade S.G., Ma Y.-R., Devan R.S., Kolekar Y.D., Ramana C.V.	Dielectric, Complex Impedance, and Electrical Transport Properties of Erbium (Er3+) Ion-Substituted Nanocrystalline, Cobalt-Rich Ferrite (Co1.1Fe1.9-xEr _x O ₄)	2016	Journal of Physical Chemistry C	120	5682	10.1021/acs.jpcc.5b111 88	4.536			16.787

	Kumar H., Srivastava R.C., Pal Singh J., Negi P., Agrawal H.M., Das D., Hwa Chae K.	Structural and magnetic study of dysprosium substituted cobalt ferrite nanoparticles	2016	Journal of Magnetism and Magnetic Materials	401	16	10.1016/j.jmmm.2015.0 9.077	2.63			10.433
	Wu X., Ding Z., Song N., Li L., Wang W.	Effect of the rare-earth substitution on the structural, magnetic and adsorption properties in cobalt ferrite nanoparticles	2016	Ceramics International	42	4246	10.1016/j.ceramint.201 5.11.100	2.986			11.620
	Kakade S.G., Kambale R.C., Ramanna C.V., Kolekar Y.D.	Crystal strain, chemical bonding, magnetic and magnetostrictive properties of erbium (Er ³⁺) ion substituted cobalt-rich ferrite (Co _{1.1} Fe _{1.9} -XerxO ₄)	2016	RSC Advances	6	33308	10.1039/c6ra03377f	3.289			12.630
	Dippong T., Levei E.A., Diamandescu L., Bibicu I., Leostean C., Borodi G., Barbu Tudoran L.	Structural and magnetic properties of Co _x Fe _{3-x} O ₄ versus Co/Fe molar ratio	2015	Journal of Magnetism and Magnetic Materials	394	111	10.1016/j.jmmm.2015.0 6.055	2.357			9.523
45	Bulai, G., Gurlui, S., Caltun, O.F., Focsa, C.	Pure and rare earth doped cobalt ferrite laser ablation: Space and time resolved optical emission spectroscopy	2015	Digest Journal of Nanomaterials and Biostructures	10	1043 – 1053		0.756	4	17.590	
	Focsa C., Gurlui S., Nica P., Agop M., Ziskind M.	Plume splitting and oscillatory behavior in transient plasmas generated by high-fluence laser ablation in vacuum	2017	Applied Surface Science	424	299	10.1016/j.apsusc.2017.0 3.273	4.439			24.695
46	Pompilian, O.G., Dascalu, G., Mihaila, I., Gurlui, S., Olivier, M., Nemec, P., Nazabal, V., Cimpoesu, N., Focsa, C.	Pulsed laser deposition of rare- earth-doped gallium lanthanum sulphide chalcogenide glass thin films	2014	Applied Physics A: Materials Science and Processing	117	197 – 205	10.1007/s00339-014- 8359-6	1.704	9	14.138	

	Blanc W., Gyu Choi Y., Zhang X., Nalin M., Richardson K.A., Righini G.C., Ferrari M., Jha A., Massera J., Jiang S., Ballato J., Petit L.	The past, present and future of photonic glasses: A review in homage to the United Nations International Year of glass 2022	2023	Progress in Materials Science	134	101084	10.1016/j.pmatsci.2023.101084	48.165			108.144
	Awasthi S., Gong B., Fuerbach A., Marjo C.E., Kane D.M.	ToF-SIMS of femtosecond laser irradiated muscovite with topography: Evidence of Na and K enrichment near the surface	2022	Applied Surface Science	581	151746	10.1016/j.apsusc.2021.151746	7.392			17.538
	Abdel Maksoud M.I.A., Abdelhaleem S., Tawfik E.K., Bedir A.G., Morshedy A.S.	Tailoring the structural, thermal, photoluminescence, and optical properties of flexible PVA/Gd ₂ O ₃ nanocomposite films by gamma irradiation	2021	Applied Physics A: Materials Science and Processing	127	801	10.1007/s00339-021-04940-9	2.983			7.740
	Zhang Z., Zhao H., Zhang C., Luo F., Du Y.	Rare-earth-incorporated low-dimensional chalcogenides: Dry-method syntheses and applications	2020	InfoMat	2	466	10.1002/inf2.12083	25.405			57.567
	Albarkaty K.S., Kumi-Barimah E., Craig C., Hewak D., Jose G., Chandrappan J.	Erbium-doped chalcogenide glass thin film on silicon using femtosecond pulsed laser with different deposition temperatures	2019	Applied Physics A: Materials Science and Processing	125	1	10.1007/s00339-018-2286-x	1.81			5.133
	Cimpoeșu N., Trincă L.C., Dascălu G., Stanciu S., Gurlui S.O., Mareci D.	Electrochemical characterization of a new biodegradable FeMnSi alloy coated with hydroxyapatite-zirconia by PLD technique	2016	Journal of Chemistry	2016	9520972	10.1155/2016/9520972	1.3			4.000
	Xiao L., Zhu J., Ding T., Wang Y., Fan Y., Bo Q.	Synthesis and characterization of Ce-incorporated CuInS ₂ chalcopyrites	2015	Materials Letters	159	392	10.1016/j.matlet.2015.07.005	2.437			6.527
	Tao G. <i>et al.</i>	Infrared fibers	2015	Advances in Optics and Photonics	7	379	10.1364/AOP.7.000379	12.368			28.596
	Wu C., Mao D., Liu Z., Liang Q., Chen S., Yu Y., Wang L., Luo L., Xu J.	N-type In ₂ S ₃ films deposited by pulsed laser deposition: Effect of laser power on the properties of the films	2015	Materials Research Express	2	56401	10.1088/2053-1591/2/5/056401	0.968			3.262
	Popescu M. <i>et al.</i>	Thin films of amorphous	2015	Materials Letters	142	229	10.1016/j.matlet.2014.1	2.437			6.527

		Ga ₂ S ₃ and rare-earth sulphides					2.028				
47	Rațoi, M., Dascălu, G., Stanciu, T., Gurlui, S.O., Stanciu, S., Istrate, B., Cimpoesu, N., Cimpoesu, R.	Preliminary results of FeMnSi+Si(PLD) alloy degradation	2014	Key Engineering Materials	638	117 – 122	10.4028/www.scientific.net/KEM.638.117	0	8	2.500	
	Săndulache F. <i>et al.</i>	Preliminary Results on the Surface of a New Fe-Based Metallic Material after “in Vivo” Maintaining	2017	IOP Conference Series: Materials Science and Engineering	209	12049	10.1088/1757-899X/209/1/012049	0			1.250
	Cimpoeșu N., Trincă L.C., Dascălu G., Stanciu S., Gurlui S.O., Mareci D.	Electrochemical characterization of a new biodegradable FeMnSi alloy coated with hydroxyapatite-zirconia by PLD technique	2016	Journal of Chemistry	2016	9520972	10.1155/2016/9520972	1.3			4.500
48	Dascaľu, G., Pompilian, G., Chazallon, B., Caltun, O.F., Gurlui, S., Focsa, C.	Femtosecond pulsed laser deposition of cobalt ferrite thin films	2013	Applied Surface Science	278	38 – 42	10.1016/j.apsusc.2013.02.107	2.538	6	29.547	
	Ismail M.M., Shaker S.S., Kamil R.A.	Influence of Pulse Laser Energy on Structural and Magnetic Properties of CoFe ₂ O ₄ and CoLa _{0.01} Fe _{1.99} O ₄ Thin Films	2023	ECS Journal of Solid State Science and Technology	12	33005	10.1149/2162-8777/acc136	2.483			9.943
	Nandy S., Latwal M., Pandey G., Chae K.H.	Synthesis of Nanostructured Ferrites and Cation Distribution Studies by X-ray Magnetic Circular Dichroism, Mössbauer Spectroscopy, and X-ray Absorption Spectroscopy	2022	Journal of Electronic Materials	51	6663	10.1007/s11664-022-09951-7	2.047			8.490
	Awasthi S., Gong B., Fuerbach A., Marjo C.E., Kane D.M.	ToF-SIMS of femtosecond laser irradiated muscovite with topography: Evidence of Na and K enrichment near the surface	2022	Applied Surface Science	581	151746	10.1016/j.apsusc.2021.151746	7.392			26.307
	Hosni N., Selmi W., Zehani K., Hamzeoui A.H., Maghraoui-Meherzi H.	Low-cost 3D-nanoflowers electrode for energy charge storage to pseudocapacitor device	2021	Journal of Energy Storage	42	103019	10.1016/j.est.2021.103019	8.907			31.357

	Hosni N. <i>et al.</i>	Experimental design approach for the synthesis of 3D-CoFe ₂ O ₄ nanoflowers thin films by low-cost process	2020	Materials Chemistry and Physics	255	123493	10.1016/j.matchemphys.2020.123493	4.094			15.313
	Irimiciuc S.A., Nica P.-E., Agop M., Focsa C.	Target properties – Plasma dynamics relationship in laser ablation of metals: Common trends for fs, ps and ns irradiation regimes	2020	Applied Surface Science	506	144926	10.1016/j.apsusc.2019.144926	6.707			24.023
	Labchir N. <i>et al.</i>	Tailoring the Optical Bandgap of Pulse Electrodeposited CoFe ₂ O ₄ Thin Films	2020	Journal of Electronic Materials	49	2242	10.1007/s11664-019-07923-y	1.938			8.127
	Hammache Z., Soukeur A., Omeiri S., Bellal B., Trari M.	Physical and photo-electrochemical properties of MgFe ₂ O ₄ prepared by sol gel route: application to the photodegradation of methylene blue	2019	Journal of Materials Science: Materials in Electronics	30	5375	10.1007/s10854-019-00830-2	2.22			9.067
	Eskandari F., Kameli P., Salamati H.	Effect of laser pulse repetition rate on morphology and magnetic properties of cobalt ferrite films grown by pulsed laser deposition	2019	Applied Surface Science	466	215	10.1016/j.apsusc.2018.10.032	6.182			22.273
	Minin R.V., Itin V.I., Zhuravlev V.A., Svetlichnyi V.A.	Synthesis of cubic ferrite CoFe ₂ O ₄ by spray pyrolysis	2018	Journal of Physics: Conference Series	1115	42011	10.1088/1742-6596/1115/4/042011	0			1.667
	Bagade A.A., Rajpure K.Y.	Development of CoFe ₂ O ₄ thin films for nitrogen dioxide sensing at moderate operating temperature	2016	Journal of Alloys and Compounds	657	414	10.1016/j.jallcom.2015.10.115	3.133			12.110
	Lefevre C. <i>et al.</i>	Stabilization of scandium rich spinel ferrite CoFe _{2-x} Sc _x O ₄ (x≤1) in thin films	2015	Journal of Solid State Chemistry	232	118	10.1016/j.jssc.2015.09.012	2.265			9.217
	Wu M.L., Ren C.Z.	Active control of the anisotropic wettability of the carbon fiber reinforced carbon and silicon carbide dual matrix composites (C/C-SiC)	2015	Applied Surface Science	327	424	10.1016/j.apsusc.2014.11.183	3.15			12.167
	Ahmmed K.M.T., Ling E.J.Y., Servio P., Kietzig A.-M.	Introducing a new optimization tool for femtosecond laser-induced surface texturing on titanium, stainless steel, aluminum and copper	2015	Optics and Lasers in Engineering	66	258	10.1016/j.optlaseng.2014.09.017	2.319			9.397

	Bagade A.A., Ganbavle V.V., Rajpure K.Y.	Physicochemical properties of spray-deposited CoFe ₂ O ₄ thin films	2014	Journal of Materials Engineering and Performance	23	2787	10.1007/s11665-014- 1032-6	0.998			4.993
49	Dascalu, G., Popescu, T., Feder, M., Caltun, O.F.	Structural, electric and magnetic properties of CoFe _{1.8} RE _{0.2} O ₄ (RE=Dy, Gd, La) bulk materials	2013	Journal of Magnetism and Magnetic Materials	333	69 – 74	10.1016/j.jmmm.2012.1 2.048	2.002	4	36.280	
	Nosheen S., Iqbal S.S., Sabir A., Alturki A., Hossain N., Bahadar A.	Synthesis and Characterizations of Novel Spinel Ferrites Nanocomposites Al _{0.5} Cr _{0.5} Zn ₀ Fe ₂ O ₄ and Zn _{0.5} Cr _{0.5} Al ₀ Fe ₂ O ₄	2023	Journal of Cluster Science	34	1099	10.1007/s10876-022- 02285-8	3.447			19.735
	Martin E. <i>et al.</i>	Deleterious effect of rare earth elements substitution on the auxetic behavior of CoFe ₂ O ₄ thin films	2023	Journal of Alloys and Compounds	935	168082	10.1016/j.jallcom.2022. 168082	6.371			34.355
	Badiger H., Matteppanavar S., Hegde B.G.	Structural, Electrical and Magnetic Properties of Low Dimensional Pr- Doped Co-Zn Ferrite Nanoparticles	2023	Journal of Superconductivity and Novel Magnetism	36	675	10.1007/s10948-023- 06503-w	1.675			10.875
	Sumalatha E., Hari kumar N., Edukondalu A., Ravinder D.	Effect of La ³⁺ ion doped Co-Zn nano ferrites: Structural, optical, electrical and magnetic properties	2022	Inorganic Chemistry Communications	146	110200	10.1016/j.inoche.2022.1 10200	3.428			19.640
	Ahmad S.I.	Nano cobalt ferrites: Doping, Structural, Low-temperature, and room temperature magnetic and dielectric properties – A comprehensive review	2022	Journal of Magnetism and Magnetic Materials	562	169840	10.1016/j.jmmm.2022.1 69840	3.097			17.985
	Malik H., Khan M.A., Akhtar M.N., Gulbadan S., Ejaz S.R.	Tailoring of structural, dielectric, and magnetic properties of SrBaCu ₂ Fe ₁₂ O ₂₂ hexaferrites by doping with Gd–Co binary mixtures	2022	Applied Physics A: Materials Science and Processing	128	754	10.1007/s00339-022- 05861-x	2.983			17.415

	Arshad M.I., Hasan M.S., Rehman A.U., Akhtar M., Tung L.D., Amin N., Mahmood K., Ali A., Trakoolwilaiwan T., Thanh N.T.K.	Structural, optical, electrical, dielectric, molecular vibrational and magnetic properties of La ³⁺ -doped Mg–Cd–Cu ferrites prepared by Co-precipitation technique	2022	Ceramics International	48	14246	10.1016/j.ceramint.2022.01.313	5.532			30.160
	Sarker M.S.I., Kumar A., Haque M.M., Rahman M.M., Khan M.K.R.	Structural, morphological and magnetic properties of Sn doped CoFe ₂ O ₄ nanoparticles	2022	Journal of Magnetism and Magnetic Materials	541	168542	10.1016/j.jmmm.2021.168542	3.097			17.985
	Yousaf M., Nazir S., Akbar M., Akhtar M.N., Noor A., Hu E., Shah M.A.K.Y., Lu Y.	Structural, magnetic, and electrical evaluations of rare earth Gd ³⁺ -doped in mixed Co–Mn spinel ferrite nanoparticles	2022	Ceramics International	48	578	10.1016/j.ceramint.2021.09.136	5.532			30.160
	Kiran A., Akhtar M.N., Yousaf M., Batoo K.M., Aldossary O.M., Khan S.N.	Influence of Y ³⁺ , Yb ³⁺ , Gd ³⁺ cations on structural and electromagnetic properties of CuFe ₂ O ₄ nanoferrites prepared via one step sol-gel method	2021	Journal of Rare Earths	39	1224	10.1016/j.jre.2020.12.003	4.632			25.660
	Hashim M. <i>et al.</i>	Influence of samarium doping on structural, elastic, magnetic, dielectric, and electrical properties of nanocrystalline cobalt ferrite	2021	Applied Physics A: Materials Science and Processing	127	526	10.1007/s00339-021-04686-4	2.983			17.415
	De León Prado L.E., Cortés Hernández D.A., Escobedo Bocardo J.C., Hurtado López G.F.	Influence of the heat treatment conditions on the properties of gallium-strontium-substituted manganese ferrites designed for magnetic hyperthermia applications	2021	Ceramics International	47	7069	10.1016/j.ceramint.2020.11.058	5.532			30.160
	Chakrabarty S., Bandyopadhyay S., Pal M., Dutta A.	Sol-gel derived cobalt containing Ni–Zn ferrite nanoparticles: Dielectric relaxation and enhanced magnetic property study	2021	Materials Chemistry and Physics	259	124193	10.1016/j.matchemphys.2020.124193	4.778			26.390
	Punia P., Bharti M.K., Chalia S., Dhar R., Ravelo B., Thakur P., Thakur A.	Recent advances in synthesis, characterization, and applications of nanoparticles for contaminated water treatment- A review	2021	Ceramics International	47	1526	10.1016/j.ceramint.2020.09.050	5.532			30.160

	Prabagar C.J., Anand S., Janifer M.A., Pauline S.	Structural and magnetic properties of Mn doped cobalt ferrite nanoparticles synthesized by Sol- Gel auto combustion method	2021	Materials Today: Proceedings	47	2013	10.1016/j.matpr.2021.0 4.209	0			2.500
	Hosamani G., Jagadale B.N., Manjanna J., Shivaprasad S.M., Shukla D.K., Bhat J.S.	Structural, Optical and Magnetic Properties of Dy-doped In ₂ O ₃ Nanoparticles	2021	Journal of Electronic Materials	50	52	10.1007/s11664-020- 08553-5	2.047			12.735
	Dun C., Xi G., Zhang Y., Heng X., Liu Y., Xing X., Liang R.	Magnetic and magnetostrictive properties of non-stoichiometric cobalt ferrite synthesized from spent Li-ion batteries	2020	Journal of Magnetism and Magnetic Materials	513	167185	10.1016/j.jmmm.2020.1 67185	2.993			17.465
	Sinha A., Dutta A.	Structural, optical, and electrical transport properties of some rare- earth-doped nickel ferrites: A study on effect of ionic radii of dopants	2020	Journal of Physics and Chemistry of Solids	145	109534	10.1016/j.jpcs.2020.109 534	3.995			22.475
	Albetran H. <i>et al.</i>	Synthesis, characterization and magnetic investigation of Er- substituted electrospun NiFe ₂ O ₄ nanofibers	2020	Physica Scripta	95	75801	10.1088/1402- 4896/ab8b7d	2.487			14.935
	Mohamed W.S., Abu-Dief A.M.	Impact of rare earth europium (RE- Eu ³⁺) ions substitution on microstructural, optical and magnetic properties of CoFe ₂ -xEu _x O ₄ nanosystems	2020	Ceramics International	46	16196	10.1016/j.ceramint.202 0.03.175	4.527			25.135
	Kanna R.R. <i>et al.</i>	Synthesis of dysprosium/Mn-Cu ferrite binary nanocomposite: Analysis of structural, morphological, dielectric, and optomagnetic properties	2020	Ceramics International	46	13695	10.1016/j.ceramint.202 0.02.157	4.527			25.135
	Abouzir E., Elansary M., Belaiche M., Jaziri H.	Magnetic and structural properties of single-phase Gd ³⁺ -substituted Co-Mg ferrite nanoparticles	2020	RSC Advances	10	11244	10.1039/d0ra01841d	3.361			19.305

	Keswani B.C., Patil S.I., James A.R., Nath R.C., Boomishankar R., Kolekar Y.D., Ramana C.V.	Structural, magnetic and ferroelectric properties of lead free piezoelectric 0.9(0.45Ba0.7Ca0.3TiO3-0.55BaTi0.8Zr0.2O3) and magnetostrictive 0.1(Co0.7Mn0.3Fe1.95Dy0.05O4) magnetoelectric particulate composite	2019	Journal of Applied Physics	126	224101	10.1063/1.5124159	2.286			13.930
	Sadaqat A. <i>et al.</i>	Structural, optical and magnetic properties of Tb3+ substituted Co nanoferrites prepared via sonochemical approach	2019	Ceramics International	45	22538	10.1016/j.ceramint.2019.07.280	3.83			21.650
	Keswani B.C., Patil S.I., Kolekar Y.D., Ramana C.V.	Improved magnetostrictive properties of cobalt ferrite (CoFe2O4) by Mn and Dy co-substitution for magneto-mechanical sensors	2019	Journal of Applied Physics	126	174503	10.1063/1.5114815	2.286			13.930
	Mohamed M.B.	Effect of Er-doping on structural, magnetic and dielectric properties of nano CoFe2O4	2019	Applied Physics A: Materials Science and Processing	125	756	10.1007/s00339-019-3048-0	1.81			11.550
	Azab A.A., El-Khawas E.H., Abdellatif M.H.	Enhancing the Ferroelectric Coupling of Multifunctional Spinel–Perovskite Composite	2019	Journal of Electronic Materials	48	6460	10.1007/s11664-019-07434-w	1.774			11.370
	Samad R., Rather M.D., Asokan K., Want B.	Dielectric and magnetic properties of rare-earth-doped cobalt ferrites and their first-order reversal curve analysis	2019	Applied Physics A: Materials Science and Processing	125	503	10.1007/s00339-019-2804-5	1.81			11.550
	Routray K.L., Behera D.	Dysprosium-substitution induced effects on the structural, dielectric and magnetic properties of CoFe2O4	2019	AIP Conference Proceedings	2115	30057	10.1063/1.5112896	0			2.500
	Dun C., Xi G., Heng X., Zhang Y., Liu Y., Xing X.	Comparative study on the magnetostrictive property of cobalt ferrite synthesized by different methods from spent Li-ion batteries	2019	Ceramics International	45	8539	10.1016/j.ceramint.2019.01.170	3.83			21.650

	Naik C.C., Salker A.V.	Structural, magnetic and dielectric properties of Dy ³⁺ and Sm ³⁺ substituted Co-Cu ferrite	2019	Materials Research Express	6	66112	10.1088/2053-1591/ab0dd0	1.929			12.145
	Almessiere M.A., Slimani Y., Sertkol M., Nawaz M., Sadaqat A., Baykal A., Ercan I., Ozçelik B.	Effect of Nb ³⁺ substitution on the structural, magnetic, and optical properties of Co _{0.5} Ni _{0.5} Fe ₂ O ₄ nanoparticles	2019	Nanomaterials	9	430	10.3390/nano9030430	4.324			24.120
	Almessiere M.A., Demir Korkmaz A., Slimani Y., Nawaz M., Ali S., Baykal A.	Magneto-optical properties of rare earth metals substituted Co-Zn spinel nanoferrites	2019	Ceramics International	45	3449	10.1016/j.ceramint.2018.10.260	3.83			21.650
	Anantharamaiah P.N., Joy P.A.	Effect of co-substitution of Co ²⁺ and V ⁵⁺ for Fe ³⁺ on the magnetic properties of CoFe ₂ O ₄	2019	Physica B: Condensed Matter	554	107	10.1016/j.physb.2018.11.031	1.902			12.010
	Anwar A., Yousuf M.A., Tahir B., Shahid M., Imran M., Khan M.A., Sher M., Warsi M.F.	New Er ³⁺ -substituted NiFe ₂ O ₄ nanoparticles and their nano-heterostructures with graphene for visible light-driven photo-catalysis and other potential applications	2019	Current Nanoscience	15	267	10.2174/1573413714666180911101337	1.836			11.680
	Devi E.C., Soibam I.	Tuning the magnetic properties of a ferrimagnet	2019	Journal of Magnetism and Magnetic Materials	469	587	10.1016/j.jmmm.2018.09.034	2.717			16.085
	Mugutkar A.B., Gore S.K., Mane R.S., Batoo K.M., Adil S.F., Jadhav S.S.	Magneto-structural behaviour of Gd doped nanocrystalline Co-Zn ferrites governed by domain wall movement and spin rotations	2018	Ceramics International	44	21675	10.1016/j.ceramint.2018.08.255	3.45			19.750
	Chakrabarty S., Pal M., Dutta A.	Yttrium doped cobalt ferrite nanoparticles: Study of dielectric relaxation and charge carrier dynamics	2018	Ceramics International	44	14652	10.1016/j.ceramint.2018.05.091	3.45			19.750
	Dun C., Xi G., Zhao T., Zhang Y., Liu Y., Yang L.	Influence of Er ³⁺ substitution on the structural, magnetic, and magnetostrictive properties of cobalt ferrite synthesized from spent Li-ion batteries	2018	Ceramics International	44	9276	10.1016/j.ceramint.2018.02.139	3.45			19.750

	Singamaneni S.R., Martinez L.M., Swadiptra R., Ramana C.V.	Magnetic and electron spin resonance studies of W doped CoFe ₂ O ₄ polycrystalline materials	2018	AIP Advances	8	55801	10.1063/1.5003826	1.579			10.395
	Ghone D.M., Mathe V.L., Patankar K.K., Kaushik S.D.	Microstructure, lattice strain, magnetic and magnetostriction properties of holmium substituted cobalt ferrites obtained by co- precipitation method	2018	Journal of Alloys and Compounds	739	61	10.1016/j.jallcom.2017. 12.219	4.175			23.375
	Hashim M. <i>et al.</i>	Influence of rare earth ion doping (Ce and Dy) on electrical and magnetic properties of cobalt ferrites	2018	Journal of Magnetism and Magnetic Materials	449	319	10.1016/j.jmmm.2017.1 0.023	2.683			15.915
	Malik H., Khan M.A., Hussain A., Warsi M.F., Mahmood A., Ramay S.M.	Structural, spectral, thermal and dielectric properties of Nd-Ni co- doped Sr-Ba-Cu hexagonal ferrites synthesized via sol-gel auto- combustion route	2018	Ceramics International	44	605	10.1016/j.ceramint.201 7.09.219	2.986			17.430
	Orozco C. <i>et al.</i>	Effect of Molybdenum Incorporation on the Structure and Magnetic Properties of Cobalt Ferrite	2017	Journal of Physical Chemistry C	121	25463	10.1021/acs.jpcc.7b081 62	4.536			25.180
	Kharat S.P., Swadiptra R., Kambale R.C., Kolekar Y.D., Ramana C.V.	Enhanced magnetostrictive properties of nanocrystalline Dy ³⁺ substituted Fe-rich Co _{0.8} Fe _{2.2} O ₄ for sensor applications	2017	Journal of Applied Physics	122	164101	10.1063/1.5005519	2.176			13.380
	Kesavamoorthi R., Raja C.R.	Structural and Magnetic Properties of Cobalt and Copper Ions Mixed Nickel Ferrite Nanoparticles	2017	Journal of Superconductivity and Novel Magnetism	30	2535	10.1007/s10948-017- 4055-z	1.142			8.210
	Chen W., Wu W., Liu D., Wu J.	Improvement of the coercivity of rod-like NiCuMg ferrites induced by substitution of Dy ³⁺ ions for Fe ³⁺ ions	2017	Journal of Materials Science: Materials in Electronics	28	2901	10.1007/s10854-016- 5875-5	2.324			14.120
	Sumathi S., Lakshmipriya V.	Structural, magnetic, electrical and catalytic activity of copper and bismuth co-substituted cobalt ferrite nanoparticles	2017	Journal of Materials Science: Materials in Electronics	28	2795	10.1007/s10854-016- 5860-z	2.324			14.120

	Chen W., Liu D., Wu W., Zhang H., Wu J.	Structure and magnetic properties evolution of rod-like $\text{Co}_{0.5}\text{Ni}_{0.25}\text{Zn}_{0.25}\text{Dy}_x\text{Fe}_{2-x}\text{O}_4$ synthesized by solvothermal method	2017	Journal of Magnetism and Magnetic Materials	422	49	10.1016/j.jmmm.2016.08.067	2.863			16.815
	Zubair A. <i>et al.</i>	Structural, morphological and magnetic properties of Eu-doped CoFe_2O_4 nano-ferrites	2017	Results in Physics	7	3203	10.1016/j.rinp.2017.08.035	0.946			7.230
	Kakade S.G., Kambale R.C., Kolekar Y.D., Ramana C.V.	Dielectric, electrical transport and magnetic properties of Er^{3+} substituted nanocrystalline cobalt ferrite	2016	Journal of Physics and Chemistry of Solids	98	20	10.1016/j.jpcs.2016.03.015	2.059			12.795
	Kakade S.G., Ma Y.-R., Devan R.S., Kolekar Y.D., Ramana C.V.	Dielectric, Complex Impedance, and Electrical Transport Properties of Erbium (Er^{3+}) Ion-Substituted Nanocrystalline, Cobalt-Rich Ferrite ($\text{Co}_{1.1}\text{Fe}_{1.9-x}\text{Er}_x\text{O}_4$)	2016	Journal of Physical Chemistry C	120	5682	10.1021/acs.jpcc.5b11188	4.536			25.180
	Kadam R.H., Desai K., Shinde V.S., Hashim M., Shirsath S.E.	Influence of Gd^{3+} ion substitution on the MnCrFeO_4 for their nanoparticle shape formation and magnetic properties	2016	Journal of Alloys and Compounds	657	487	10.1016/j.jallcom.2015.10.164	3.133			18.165
	Chen H.-Y., Hu J., Zhang J., Guo K., Li Y., Lan B.-H.	Separation of particles of rare earth oxides by dielectrophoresis	2016	Materials Science Forum	852	542	10.4028/www.scientific.net/MSF.852.542	0			2.500
	Kakade S.G., Kambale R.C., Ramanna C.V., Kolekar Y.D.	Crystal strain, chemical bonding, magnetic and magnetostrictive properties of erbium (Er^{3+}) ion substituted cobalt-rich ferrite ($\text{Co}_{1.1}\text{Fe}_{1.9-x}\text{Er}_x\text{O}_4$)	2016	RSC Advances	6	33308	10.1039/c6ra03377f	3.289			18.945
	Jauhar S., Kaur J., Goyal A., Singhal S.	Tuning the properties of cobalt ferrite: A road towards diverse applications	2016	RSC Advances	6	97694	10.1039/c6ra21224g	3.289			18.945
	Heiba Z.K., Bakr Mohamed M., Arda L., Dogan N.	Cation distribution correlated with magnetic properties of nanocrystalline gadolinium substituted nickel ferrite	2015	Journal of Magnetism and Magnetic Materials	391	195	10.1016/j.jmmm.2015.05.003	2.357			14.285

	Opuchovic O. <i>et al.</i>	Sol-gel synthesis, characterization and application of selected sub-microsized lanthanide (Ce, Pr, Nd, Tb) ferrites	2015	Dyes and Pigments	118	176	10.1016/j.dyepig.2015.03.017	4.055			22.775
	Yadav R.S. <i>et al.</i>	Structural and Magnetic Properties of $\text{CoFe}_{2-x}\text{Gd}_x\text{O}_4$ ($0.0 \leq x \leq 0.1$) Spinel Ferrite Nanoparticles Synthesized by Starch-Assisted Sol-Gel Auto-combustion Method	2015	Journal of Superconductivity and Novel Magnetism	28	1797	10.1007/s10948-015-2951-7	1.1			8.000
	Wu X., Wu W., Qin L., Wang K., Ou S., Zhou K., Fan Y.	Structure and magnetic properties evolution of nickel-zinc ferrite with lanthanum substitution	2015	Journal of Magnetism and Magnetic Materials	379	232	10.1016/j.jmmm.2014.12.057	2.357			14.285
	Khan M.A. <i>et al.</i>	Impacts of Tb substitution at cobalt site on structural, morphological and magnetic properties of cobalt ferrites synthesized via double sintering method	2015	Ceramics International	41	2286	10.1016/j.ceramint.2014.10.033	2.758			16.290
	Lin Q., Lin J., He Y., Wang R., Dong J.	The structural and magnetic properties of gadolinium doped CoFe nanoferrites	2015	Journal of Nanomaterials	2015	294239	10.1155/2015/294239	1.758			11.290
	Majumder A. <i>et al.</i>	Anisotropy, Magnetostriction and Converse Magnetoelectric Effect in Dy Substituted Ni Ferrite	2015	Physics Procedia	75	238	10.1016/j.phpro.2015.12.029	0			2.500
	Mahmoudi M., Kavanlouei M., Maleki-Ghaleh H.	Effect of composition on structural and magnetic properties of nanocrystalline ferrite $\text{Li}_{0.5}\text{Sm}_x\text{Fe}_{2.5-x}\text{O}_4$	2015	Powder Metallurgy and Metal Ceramics	54	31	10.1007/s11106-015-9676-9	0.235			3.675
	Jnaneshwara D.M. <i>et al.</i>	Role of Cu^{2+} ions substitution in magnetic and conductivity behavior of nano- CoFe_2O_4	2014	Spectrochimica Acta – Part A	132	256	10.1016/j.saa.2014.04.179	2.353			14.265
	Kumar L., Kumar P., Kar M.	Non-linear behavior of coercivity to the maximum applied magnetic field in La substituted nanocrystalline cobalt ferrite	2014	Physica B: Condensed Matter	448	38	10.1016/j.physb.2014.04.025	1.319			9.095
	Zhao X., Wang W., Zhang Y., Wu S., Li F., Liu J.P.	Synthesis and characterization of gadolinium doped cobalt ferrite nanoparticles with enhanced adsorption capability for Congo Red	2014	Chemical Engineering Journal	250	164	10.1016/j.cej.2014.03.113	4.321			24.105

	Panda R.K., Behera D.	Investigation of electric transport behavior of bulk CoFe ₂ O ₄ by complex impedance spectroscopy	2014	Journal of Alloys and Compounds	587	481	10.1016/j.jallcom.2013.10.195	2.999			17.495
	Inbanathan S.S.R., Vaithyanathan V., Arout Chelvane J., Markandeyulu G., Kamala Bharathi K.	Mössbauer studies and enhanced electrical properties of R (R=Sm, Gd and Dy) doped Ni ferrite	2014	Journal of Magnetism and Magnetic Materials	353	41	10.1016/j.jmmm.2013.10.019	1.97			12.350
	Naidu V., Chandra S., Durairaj K.S.P., Sundar J.K., Sivabharathy M.	Effect of structural, electrical, and magnetic properties of nano-sized Mg ErxDyFe _{2-x-y} O ₄	2014	International Journal of ChemTech Research	6	5595		0			2.500
	Ahamed Kandu Sahib S.K.A., Suganthi M., Naidu V., Pandian S., Sivabharathy M.	Synthesis of double lanthanide doped nano ferrite meta material for microstrip patch antenna application	2014	Klinicka Farmakologie a Farmacie	28	4615		0			2.500
	Ahamed Kandu Sahib S.K.A. <i>et al.</i>	Synthesis of double lanthanide doped nano ferrite meta material for microstrip patch antenna application	2014	International Journal of ChemTech Research	6	4615		0			2.500
	Wells S., Ramana C.V.	Effect of hafnium-incorporation on the microstructure and dielectric properties of cobalt ferrite ceramics	2013	Ceramics International	39	9549	10.1016/j.ceramint.2013.05.073	2.086			12.930
50	Dascalu, G., Pompilian, G., Chazallon, B., Nica, V., Caltun, O.F., Gurlui, S., Focsa, C.	Rare earth doped cobalt ferrite thin films deposited by PLD	2013	Applied Physics A: Materials Science and Processing	110	915 – 922	10.1007/s00339-012-7196-8	1.694	7	18.091	
	Chen A., Wang G., Du Z., Wang Z., Liu Y., Cao J.	Constructing multi-effect synergistic rare-earth doped CoFe ₂ O ₄ /CoFe composites for improved microwave absorption performance	2023	Ceramics International	49	20890	10.1016/j.ceramint.2023.03.222	5.532			17.234
	Mashadi M., Suyanti S., Setiawan J., Yunasfi Y., Adi W.A.	Magnetic and Microwave Absorbing Properties of Cerium Substituted Zinc Ferrite Synthesized Using Milling Technique	2023	Journal of Superconductivity and Novel Magnetism	36	721	10.1007/s10948-023-06518-3	1.675			6.214

Nandy S., Latwal M., Pandey G., Chae K.H.	Synthesis of Nanostructured Ferrites and Cation Distribution Studies by X-ray Magnetic Circular Dichroism, Mössbauer Spectroscopy, and X-ray Absorption Spectroscopy	2022	Journal of Electronic Materials	51	6663	10.1007/s11664-022-09951-7	2.047			7.277
Ravi Kumar S. <i>et al.</i>	Influence of Nd ³⁺ substituted Co _{0.5} Ni _{0.5} Fe ₂ O ₄ ferrite on structural, morphological, dc electrical resistivity and magnetic properties	2022	Inorganic Chemistry Communications	136	109132	10.1016/j.inoche.2021.109132	3.428			11.223
Reddy R.A. <i>et al.</i>	Structural, electrical and magnetic properties of cobalt ferrite with Nd ³⁺ doping	2022	Rare Metals	41	240	10.1007/s12598-019-01285-4	6.318			19.480
Jadhav G.L., Khirade P.P., Chavan A.R., Kale C.M., Jadhav K.M.	Structural, Optical and Magnetic Properties of Diamagnetic Cd ²⁺ Incorporated Cobalt Ferrite Thin Films Deposited by Spray Pyrolysis	2021	Journal of Electronic Materials	50	6525	10.1007/s11664-021-09199-7	2.047			7.277
Mmelesi O.K.	Cobalt ferrite nanoparticles and nanocomposites: Photocatalytic, antimicrobial activity and toxicity in water treatment	2021	Materials Science in Semiconductor Processing	123	105523	10.1016/j.mssp.2020.105523	4.644			14.697
Nekvapil F., Bunge A., Radu T., Cinta Pinzaru S., Turcu R.	Raman spectra tell us so much more: Raman features and saturation magnetization for efficient analysis of manganese zinc ferrite nanoparticles	2020	Journal of Raman Spectroscopy	51	959	10.1002/jrs.5852	3.133			10.380
Shakil M.	Influence of zinc and cadmium co-doping on optical and magnetic properties of cobalt ferrites	2020	Ceramics International	46	7767	10.1016/j.ceramint.2019.11.280	4.527			14.363
Ursu C., Nica P., Rusu B.G., Focsa C.	V-shape plasma generated by excimer laser ablation of graphite in argon: Spectroscopic investigations	2020	Spectrochimica Acta – Part B Atomic Spectroscopy	163	105743	10.1016/j.sab.2019.105743	3.752			12.149
Phor L., Kumar V.	Structural, magnetic and dielectric properties of lanthanum substituted Mn _{0.5} Zn _{0.5} Fe ₂ O ₄	2019	Ceramics International	45	22972	10.1016/j.ceramint.2019.07.341	3.83			12.371
Ansari M.M.N., Khan S., Ahmad N.	Influence of Dy ³⁺ and Cu substitution on the structural, electrical and dielectric properties	2019	Journal of Materials Science: Materials in	30	17630	10.1007/s10854-019-02112-3	2.22			7.771

		of CoFe ₂ O ₄ nanoferrites		Electronics							
	Nica P., Gurlui S., Agop M., Focsa C.	Oscillatory regimes of Langmuir probe current in femtosecond laser-produced plasmas: Experimental and theoretical investigations	2019	Applied Surface Science	481	125	10.1016/j.apsusc.2019.03.098	6.182			19.091
	Kokare M.K., Jadhav N.A., Singh V., Rathod S.M.	Effect of Sm ³⁺ substitution on the structural and magnetic properties of Ni-Co nanoferrites	2019	Optics and Laser Technology	112	107	10.1016/j.optlastec.2018.10.045				1.429
	Shinde V.S., Vinayak V., Jadhav S.P., Shinde N.D., Humbe A.V., Jadhav K.M.	Structure, Morphology, Cation Distribution and Magnetic Properties of Cr ³⁺ -Substituted CoFe ₂ O ₄ Nanoparticles	2019	Journal of Superconductivity and Novel Magnetism	32	945	10.1007/s10948-018-4778-5	1.244			4.983
	Kokare M.K., Jadhav N.A., Kumar Y., Jadhav K.M., Rathod S.M.	Effect of Nd ³⁺ doping on structural and magnetic properties of Ni _{0.5} Co _{0.5} Fe ₂ O ₄ nanocrystalline ferrites synthesized by sol-gel auto combustion method	2018	Journal of Alloys and Compounds	748	1053	10.1016/j.jallcom.2018.03.168	4.175			13.357
	Lefevre C. <i>et al.</i>	Stabilization of scandium rich spinel ferrite CoFe ₂ -xSc _x O ₄ (x≤1) in thin films	2015	Journal of Solid State Chemistry	232	118	10.1016/j.jssc.2015.09.012	2.265			7.900
	Wang P., Jin C., Zheng D.X., Bai H.L.	Strain-mediated magnetic and transport properties of epitaxial LuFe ₃ -xO ₄ films	2015	Journal of Applied Physics	118	133901	10.1063/1.4931980	2.101			7.431
	Rahman M.T., Vargas M., Ramana C.V.	Structural characteristics, electrical conduction and dielectric properties of gadolinium substituted cobalt ferrite	2014	Journal of Alloys and Compounds	617	547	10.1016/j.jallcom.2014.07.182	2.999			9.997
	Rahman M.T., Ramana C.V.	Impedance spectroscopic characterization of gadolinium substituted cobalt ferrite ceramics	2014	Journal of Applied Physics	116	164108	10.1063/1.4896945	2.183			7.666
	Prathapani S., Jayaraman T.V., Varaprasadarao E.K., Das D.	Structural and ambient/sub-ambient temperature magnetic properties of Er-substituted cobalt-ferrites synthesized by sol-gel assisted auto-combustion method	2014	Journal of Applied Physics	116	23908	10.1063/1.4889929	2.183			7.666
	Rahman M.T., Ramana C.V.	Gadolinium-substitution induced effects on the structure and AC electrical properties of cobalt ferrite	2014	Ceramics International	40	14533	10.1016/j.ceramint.2014.05.140	2.605			8.871

	Mohammadifar Y., Shokrollahi H., Karimi Z., Karimi L.	The synthesis of Co _{1-x} Dy _x Fe ₂ O ₄ nanoparticles and thin films as well as investigating their magnetic and magneto-optical properties	2014	Journal of Magnetism and Magnetic Materials	366	44	10.1016/j.jmmm.2014.04.017	1.97			7.057
	Virlean C., Tudorache F., Pui A.	Increased sensibility of mixed ferrite humidity sensors by subsequent heat treatment	2017	International Journal of Applied Ceramic Technology	14	1174	10.1111/ijac.12706	1.048			4.423
	Mandal S.K., Singh S., Dey P., Roy J.N., Mandal P.R., Nath T.K.	Temperature and frequency dependence of AC electrical properties of Zn and Ni doped CoFe ₂ O ₄ nanocrystals	2017	Philosophical Magazine	97	1628	10.1080/14786435.2017.1312021	1.505			5.729
	Cocean A., Cocean I., Gurlui S., Iacomini F.	Study of the pulsed laser deposition phenomena by means of COMSOL multiphysics	2017	UPB Scientific Bulletin, Series A	79	263		0.279			2.226
	Want B., Samad R., Rather M.U.D.	Effect of neodymium on the magnetic and dielectric properties of Nickel-cobalt ferrite	2017	Journal of Magnetism	22	450	10.4283/JMAG.2017.22.3.450	0.713			3.466
	Lefevre C. <i>et al.</i>	Stabilization of scandium rich spinel ferrite CoFe _{2-x} Sc _x O ₄ (x ≤ 1) in thin films	2015	Journal of Solid State Chemistry	232	118	10.1016/j.jssc.2015.09.012	2.265			7.900
	Wang P., Jin C., Zheng D.X., Bai H.L.	Strain-mediated magnetic and transport properties of epitaxial LuFe _{3-x} O ₄ films	2015	Journal of Applied Physics	118	133901	10.1063/1.4931980	2.101			7.431
	Rahman M.T., Vargas M., Ramana C.V.	Structural characteristics, electrical conduction and dielectric properties of gadolinium substituted cobalt ferrite	2014	Journal of Alloys and Compounds	617	547	10.1016/j.jallcom.2014.07.182	2.999			9.997
	Prathapani S., Jayaraman T.V., Varaprasadarao E.K., Das D.	Structural and ambient/sub-ambient temperature magnetic properties of Er-substituted cobalt-ferrites synthesized by sol-gel assisted auto-combustion method	2014	Journal of Applied Physics	116	23908	10.1063/1.4889929	2.183			7.666
	Rahman M.T., Ramana C.V.	Gadolinium-substitution induced effects on the structure and AC electrical properties of cobalt ferrite	2014	Ceramics International	40	14533	10.1016/j.ceramint.2014.05.140	2.605			8.871

	Mohammadifar Y., Shokrollahi H., Karimi Z., Karimi L.	The synthesis of Co _{1-x} Dy _x Fe ₂ O ₄ nanoparticles and thin films as well as investigating their magnetic and magneto-optical properties	2014	Journal of Magnetism and Magnetic Materials	366	44	10.1016/j.jmmm.2014.04.017	1.97			7.057
	Rahman M.T., Ramana C.V.	Impedance spectroscopic characterization of gadolinium substituted cobalt ferrite ceramics	2014	Journal of Applied Physics	116	164108	10.1063/1.4896945	2.183			7.666
51	Dascalu, G., Durneata, D., Caltun, O.F.	Magnetic measurements of RE-doped cobalt ferrite thin films	2013	IEEE Transactions on Magnetics	49	46 – 49	10.1109/TMAG.2012.220534	1.213	3	32.593	
	Martin E. <i>et al.</i>	Deleterious effect of rare earth elements substitution on the auxetic behavior of CoFe ₂ O ₄ thin films	2023	Journal of Alloys and Compounds	935	168082	10.1016/j.jallcom.2022.168082	6.371			45.807
	Rifai L., Fattouh F., Habanjar K., Yaacoub N., Awad R.	Exchange spring behaviour in BaFe ₁₂ O ₁₉ /CoFe ₂ O ₄ magnetic nanocomposites	2021	Journal of Alloys and Compounds	868	159072	10.1016/j.jallcom.2021.159072	6.371			45.807
	Reddy M.V., Jayaraman T.V., Patil N., Das D.	Giant magnetoelastic properties in Ce-substituted and magnetic field processed cobalt ferrite	2020	Journal of Alloys and Compounds	837	155501	10.1016/j.jallcom.2020.155501	5.316			38.773
	Al-Anazi A. <i>et al.</i>	Cobalt ferrite nanoparticles with controlled composition-peroxymonosulfate mediated degradation of 2-phenylbenzimidazole-5-sulfonic acid	2018	Applied Catalysis B: Environmental	221	266	10.1016/j.apcatb.2017.08.054	9.446			66.307
	Avazpour L., Toroghinejad M.R., Shokrollahi H.	Enhanced magneto-optical Kerr effect in rare earth substituted nanostructured cobalt ferrite thin film prepared by sol-gel method	2016	Applied Surface Science	387	869	10.1016/j.apsusc.2016.06.168	3.387			25.913
	Lefevre C.	Stabilization of scandium rich spinel ferrite CoFe _{2-x} Sc _x O ₄ (x≤1) in thin films	2015	Journal of Solid State Chemistry	232	118	10.1016/j.jssc.2015.09.012	2.265			18.433

	Yadav R.S.	Structural and Magnetic Properties of $\text{CoFe}_{2-x}\text{Gd}_x\text{O}_4$ ($0.0 \leq x \leq 0.1$) Spinel Ferrite Nanoparticles Synthesized by Starch-Assisted Sol–Gel Auto-combustion Method	2015	Journal of Superconductivity and Novel Magnetism	28	1797	10.1007/s10948-015-2951-7	1.1			10.667
	Zhao X., Wang W., Zhang Y., Wu S., Li F., Liu J.P.	Synthesis and characterization of gadolinium doped cobalt ferrite nanoparticles with enhanced adsorption capability for Congo Red	2014	Chemical Engineering Journal	250	164	10.1016/j.cej.2014.03.113	4.321			32.140
	Prathapani S., Jayaraman T.V., Varaprasadarao E.K., Das D.	Structural and ambient/sub-ambient temperature magnetic properties of Er-substituted cobalt-ferrites synthesized by sol-gel assisted auto-combustion method	2014	Journal of Applied Physics	116	23908	10.1063/1.4889929	2.183			17.887
	Saccone F.D., Vavassori P., Berger A.	Structural and magnetic properties of multilayered $\text{TiO}_2/\text{FM}/\text{TiO}_2/\text{FM}/\text{CoFe}_2\text{O}_4$ (FM: Fe or Py) films grown by pulsed laser deposition	2013	IEEE Transactions on Magnetics	49	4542	10.1109/TMAG.2013.258331	1.213			11.420
52	Dascalu, G., Caltun, O.F.	CoFe_2O_4 thin films deposited by PLD with in situ heating and post annealing	2011	Journal of Optoelectronics and Advanced Materials	13	1145 – 1148		0.457	2	26.210	
	De La Figuera J. <i>et al.</i>	Mössbauer and magnetic properties of coherently mixed magnetite-cobalt ferrite grown by infrared pulsed-laser deposition	2015	Croatica Chemica Acta	88	453	10.5562/cca2752	0.732			12.320
							TOTAL			1784.379	6785.47

2. Articole științifice publicate *in extenso* în reviste indexate *Web of Science* fără factor de impact

	Autori	Titlu	An	Jurnal	Volum	Pagina	Factor impact	Nr. Autori	Punctaj
1	Rațoi, M., Dascălu, G., Stanciu, T., Gurlui, S.O., Stanciu, S., Istrate, B., Cimpoesu, N., Cimpoesu, R.	Preliminary results of FeMnSi+Si(PLD) alloy degradation	2014	Key Engineering Materials	638	117 – 122	0	8	2.50
2	Boukhoubza, I., Khenfouch, M., Leontie, L., Achehboune, M., Doroftei, C., Carlescu, A., Bulai, G., Mothudi, B.M., Zorkani, I., Jorio, A.	Enhancement of the structural and morphological properties of ZnO/rGO nanocomposites synthesized by hydrothermal method	2021	Materials Today: Proceedings	53	324-331	0	10	2
3	Achehboune, M., Khenfouch, M., Boukhoubza, I., Leontie, L., Doroftei, C., Carlescu, A., Bulai, G., Mothudi, B., Zorkani, I., Jorio, A.	Microstructural, FTIR and Raman spectroscopic study of Rare earth doped ZnO nanostructures	2021	Materials Today: Proceedings	53	319-323	0	10	2
		TOTAL							6.50

3. Articole științifice publicate *in extenso* în reviste indexate BDI

Nr. crt.	Autori	Titlu	An	Jurnal	Volum	Factor impact	Nr. Autori	Punctaj
1	E.-V. Gafton, F. Haque, F. Hușanu, M. M. Cazacu, G. Bulai, S. Gurlui	Hydrogen passivation effect On ZnO powder	2017	Buletinul Institutului Politehnic din Iași	63		6	2.5
2	F. G. Hușanu, M. M. Cazacu, G. Bulai, S. Gurlui, E. Pettinelli,	Laboratory measurements for the characterization of the physical parameters of geomaterials and planetary analogues,	2018	Buletinul Institutului Politehnic din Iași	64		5	3
		TOTAL						5.5

5. Cărți științifice publicate (doar prima ediție)

Nr. crt.	Capitol carte	Punctaj
1	B. Negulescu, G. Dascalu, O.F. Caltun, "Filme subțiri. Obținerea filmelor subțiri de ferită de cobalt" din "Ferite de cobalt magnetostrictive", coordinator Ovidiu Florin Caltun, Ed. Alexandru Ioan Cuza Iasi, 2009. (pp.: 131-173)	2.8
2	Fundamentals of magnetism, G. Bulai, O.F. Caltun, capitol de carte in Ferrite Nanostructured Magnetic Materials, Editor(s): J.P. Singh, K. H. Chae, R.C. Srivastava, O. F. Caltun, Woodhead Publishing - Elsevier, ISBN 9780128237175, 2023 (pp.: 3-15)	4.2
3	Magnetization processes in ferrite nanoparticles, thin films, and nanowires, I. Dumitru, G. Bulai, O.F. Caltun, capitol de carte in Ferrite Nanostructured Magnetic Materials, Editor(s): J.P. Singh, K. H. Chae, R.C. Srivastava, O. F. Caltun, Woodhead Publishing - Elsevier, ISBN 9780128237175, 2023 (pp.: 55-70)	3.5
4	Pulsed laser deposition of ferrite thin films, G. Bulai, O.F. Caltun, capitol de carte in Ferrite Nanostructured Magnetic Materials, Editor(s): J.P. Singh, K. H. Chae, R.C. Srivastava, O. F. Caltun, Woodhead Publishing - Elsevier, ISBN 9780128237175, 2023 (pp.: 223-240)	5.95
5	Magnetostriction effects in ferrites, G. Bulai, O.F. Caltun, capitol de carte in Ferrite Nanostructured Magnetic Materials, Editor(s): J.P. Singh, K. H. Chae, R.C. Srivastava, O. F. Caltun, Woodhead Publishing - Elsevier, ISBN 9780128237175, 2023 (pp.: 651-667)	5.6
	TOTAL	22.05

9. Contracte de cercetare științifică în instituții academice (universități, institute ale Academiei Române, institute naționale de cercetare, institute de cercetare din străinătate, alte categorii de institute academice)

Nr. crt.	Proiect	Suma	Nr. membri	Punctaj
1	“The study of polymer-laser radiation interactions in controlled atmosphere. Laser ablation nanostructured thin films layers. Applications.”, PN-II-ID-PCE-2011-3-0650, 2011-2014 - membru;	1500000	7	21.428
2	“Fast laser imaging, detection and ranging of aerosol emissions in aircraft plumes”, STAR-ROSA 98/129.11.2013, 2013-2016 - membru;	800000	15	5.33
3	“Dinamica plasmei de ablatie laser: cercetari fundamentale si aplicatii ale depunerii de straturi subtiri prin tehnica PLD”, UEFISCDI, 712/2013, 2013-2014 - membru;	20000	6	0.333
4	”Extreme Light Induced Ablation Plasma Jet And Nanopatterning”, E03/30.06.2014, CAPACITATI / RO-CERN, ELI-NP, 2014-2016 - membru.	626557	21	2.98
5	“Synthesis and characterization of cobalt ferrite and polymers based on magnetic nanocomposites”, project selected within “Alexandru Ioan Cuza” University competition, November 2014 (project code GI-2014-06) – director proiect	20000	1	2
6	LOASL’s Earth Observatory, STAR-ROSA 114/7.11.2016, 2016-2017, Membru	4500000	7	64.28
7	Satellite hybrid micro-thrusters, STAR-ROSA 169/20.07.2017, 2017-2018, Membru	1734745	27	6.67
8	Aerosol properties retrieval from remote sensing spectroscopic measurements, STAR-ROSA 162/20.07.2017, 2017-2019, Membru	693898	22	3.13
9	“The study of water adsorption at nanostructured materials surfaces by using nuclear-physical methods”, DUBNA Proiect 04-4-1122-2015/2020, Nr. Project 54 - IUCN No. 269/20.05.2020, Membru	-	-	-
10	„Validarea unui nou adsorbant anorganic cu morfologie de nano-fibre conectat la carbon activ pentru indepartarea unor produse farmaceutice din ape uzate”, VALID, PN-III-P2-2.1-PED-2019-4215, Contract de finanțare nr. 482PED/2020, Membru	600000	7	8.57

11	„Producerea hidrogenului și tratarea avansată a apei utilizând fotocatalizatori inovativi cu heterostructuri 3D”, Revolution3D, PN-III-P1-1.1-TE-2019-2037, Contract de finanțare nr.TE6/2020, Membru	431900	4	10.79
12	„Accelerarea ionica intensificata prin iradiere cu laser a straturilor speciale de polimeri subtiri care contin nanoparticule”, ENIAN, PN-III-P5-5.2-FAIR-RO-2020-05/2020, Contract de finanțare nr. FAIR_09/24.11.2020, Membru	1600000	9	17.77
13	„MicroLIBS sensors for robotic planetary and astrobiological exploration missions”, ROBIM, PN-III-P4-ID-PCE-2020-0332, 2021-2023, Membru	1171032	9	13.01
14	„Nanoreactoare fotocatalitice inovative de tip miez/manta@gol@manta”, GHOST 3D, PN-III-P4-ID-PCE-2020-1385, Membru	1198032	10	11.98
15	„Research of metastable crystal phases in nanoscale oxide systems based on ZrO2 for applications in adsorption power engineering and electronics using nuclear physics methods”, DUBNA Proiect 04-4-1143-2021/2025, Nr. Proiect 58 - IUCN no. 365/11.05.2021, Membru	-	-	-
16	“Nanostructured double perovskite for solar energy conversion devices”, Acronym: NanoSEC, UEFISCDI, Contract no. TE 11/ 05.05.2020, PN-III-P1-1.1-TE-2021-0265, Coordonator proiect, Suma 445715 lei	445715	-	44.57
TOTAL				212.841

14. Profesor/cercetător invitat la universități/institute de cercetare

Nr. crt.	Cercetator invitat	Punctaj
1	Lille 1 University – Science and Technology, Laboratoire de Physique des Lasers, Atomes et Molécules (UMR CNRS 8523), 59655 Villeneuve d’Ascq, France, 15.11.2010 – 15.07.2011, Research Assistant	25
2	Lille 1 University – Science and Technology, Laboratoire de Physique des Lasers, Atomes et Molécules (UMR CNRS 8523), 59655 Villeneuve d’Ascq, France, 01.07.2013 – 15.07.2013, Research Assistant	25
3	University of Geneva, Condensed Matter Physics Department, Ernest-Ansermet 24, CH-1211 Genève 4, Switzerland, 01.03.2012 – 31.03.2012, Research Assistant	25
4	Institute for Ion Physics and Applied Physics, University of Innsbruck, Innrain 52 A-6020 Innsbruck, Austria 08.09.2014 - 13.09.2014 Research Assistant	25
5	Lille 1 University – Science and Technology, Laboratoire de Physique des Lasers, Atomes et Molécules (UMR CNRS 8523), 59655 Villeneuve d’Ascq, France, 01.05.2014 – 31.05.2014 Research Assistant	25
	TOTAL	125

19. Participări la manifestări științifice

Nr. crt.	Participari la conferinte internatioanale	Punctaj
1	Cocean, A., Cocean, I., Bulai, G. , Postolachi, C., Munteanu, B., Cimpoesu, N., Gurlui, S., Trace elements Photo-Analysis for environmental applications: a case study, The 3rd International Workshop Advances on Photocatalysis including Environmental and Energy Applications AdvPhotoCat-EE 2021, 28-29 Iunie, 2021, Online (Lucrare Invitat)	10
2	Furubayashi, Y., Yamamoto, T., Mimura, H., Alupului, T., Rusu, G. G., Bulai, G. , Toma, M., Punga, L., Toader, M., Iacomi, F., Studies on the structure, optical and electrical properties of $\text{In}_{2-(x+y)}\text{Sn}_x\text{Zn}_y\text{O}_{3-\delta}$ thin films deposited by spincoating, International Conference on Physics of Advanced Materials (ICPAM-13), 24 – 30 Septembrie, 2021, Costa Brava, Spain (Poster)	10
3	Missaoui, G., Ncib, M., Gurlui, S., Leontie, L., Bulai, G. , Motrescu, I., Dobromir, M., Ababei, G., Pohoata, V., Tiron, V., Carlescu, A., Mita, C., Cornei, N., Pt free counter electrode for DSSCs based on reduced graphene doped and codoped with heteroatoms, International Conference on Physics of Advanced Materials (ICPAM-13), 24 – 30 Septembrie, 2021, Costa Brava, Spain (Prezentare orală)	10
4	Cocean, A., Postolachi, C., Garofalide, S., Pata, D., Diaconu, M., Husanu, F., Bulai G. , Munteanu, B., Cimpoesu, N., Dimitriu, D.- G., Cocean, I., Gurlui, S., Dual-pulse ns-laser-induced Raman and breakdown spectroscopy to enhance performance on atoms and molecular detection,	10

	International Conference on Physics of Advanced Materials (ICPAM-13), 24 – 30 Septembrie, 2021, Costa Brava, Spain (Prezentare orală)	
5	Multiple structure formation and molecule dynamics in transient plasmas generated by laser ablation of graphite, Stefan Andrei Irimiciuc, Bianca Hodoroba, Georgiana Bulai, Silviu Gurlui, Valentin Craciun, E-MRS Spring meeting, 27-31 mai 2019, Nice, France	10
6	Florin ENESCU, Stefan-Andrei IRIMICIUC, Nicanor CIMPOIESU, Horea BEDELEAN, Bianca HODOROABA, Georgiana BULAI, Silviu GURLUI, Spatial and temporal analysis on plasma plumes generated by laser ablation on geo-materials, EMRS Spring meeting, 2018, 18-22 iunie, Strasbourg, Franta;	10
7	Stefan Andrei Irimiciuc, Georgiana Bulai, Maricel Agop, Silviu Gurlui, Laser ablation plasma diagnosis for PLD thin layer quality control, EMRS Spring meeting, 2018, 18-22 iunie, Strasbourg, Franta;	10
8	Stefan Andrei Irimiciuc, Georgiana Bulai, Silviu Gurlui, Dan Gheorghe Dimitriu, Role of molecule formation and multiple - structure scenarios in dynamics of laser produced plasmas, 24th Europhysics Conference on Atomic and Molecular Physics of Ionized Gases (ESCAMPIG), 17-21 iulie 2018, Glasgow, Scotland, Anglia;	10
9	Francisca Husanu, Georgiana Bulai, Stefan Irimiciuc, Vasilica Trandafir, Nicanor Cimpoesu, Silviu Gurlui, Investigation of rare earth doped cobalt ferrite thin films deposited by PLD, International Balkan Workshop on Applied Physics and Materials Science, 10-13 iulie 2018, Constanta, Romania;	10
10	G. Bulai, S. Irimiciuc, V. Gafton, N. Cimpoesu, C. Focsa, S. Gurlui, Influence of rare earth addition on cobalt ferrite thin films deposited by pulsed laser deposition, 3-5 septembrie, 2018, Viena, Austria;	10
11	G. Bulai, S. Irimiciuc, A. Cocean, V. Trandafir, F. Husanu, S. Gurlui, Optical emission spectroscopy analysis of laser induced plasmas on magnetic materials, International Conference on Physics of Advanced Materials, 22 – 28 septembrie 2018, Heraklion, Grecia;	10
12	M.M. Cazacu, G. Bulai, A. Timofte, A. Rosu, O. Rusu, F. Husanu, L. Leontie, S. Gurlui „Space-and time-resolved aerosols emission spectroscopy: advanced LIDAR techniques for environmental approach”, Advances On Photocatalysis, AdvPhotoCat-E 2017, The 2nd International Workshop, Technological Educational Institute (TEI) of Crete, Heraklion, Grecia, 2017;	10
13	G. Bulai, A. Timofte, M. Cazacu, S. Gurlui, Laser induced RAMAN & breakdown spectroscopy techniques. Fundamentals and Applications, 11th International Conference Elsedima “Environmental Legislation, Safety Engineering And Disaster Management” Building Disaster Resilience In A Changing World, 2016, Cluj-Napoca, Universitatea Babeş-Bolyai, Romania,	10
14	S. Gurlui, M. M. Cazacu, A. Timofte, O. Rusu, G. Bulai, D. Dan, Space- and time-resolved Raman and breakdown spectroscopy: Advanced lidar techniques, Accepted to: 28th International Laser Radar Conference, Bucharest, Romania, 2017	10
15	G.. Bulai, S. Irimiciuc, F. Husanu, O. Rusu, M. Cazacu, S. Gurlui, Characterization of cobalt ferrite laser induced plasma by optical emission spectroscopy, Accepted to: International Conference on Laser Spectroscopy (ICOLS 2017), Palais des Congres, Arcachon, France, 2017;	10
16	G. Bulai, M. Cazacu, S. Gurlui, Spectrally resolved LIDAR detection of atmospheric and pollutant compounds, Accepted to: International Conference on Laser Spectroscopy (ICOLS 2017), Palais des Congres, Arcachon, Franta, 2017;	10
17	G. Bulai, O. Pompilian, S. Gurlui, P. Nemec, V. Nazabal, B. Chazallon, C. Focsa, Ge-Sb-Te based thin films obtained by pulsed laser deposition in different temporal regimes, The 9th International Conference on Advanced Materials, ROCAM, 2017	10
18	G. Bulai, S. Irimiciuc, F. Husanu, O. Rusu, M. M. Cazacu, S. Gurlui, Optical Emission Spectroscopy Analysis of Fe, Co and CoFe ₂ O ₄ laser induced plasmas, The 9th International Conference on Advanced Materials, ROCAM, 2017.	10

19	S. Gurlui, M.M. Cazacu, G. Bulai, A. Timofte, A. Rosu, E.R. Rotaru, B. Albina, O. Rusu, O.G. Tudose, F. Fusanu, L. Leontie, Map of the pollutants in Iasi City: atmospheric and terrestrial measurements, International Symposium "Present Environment and Sustainable Development", 12th edition, Iasi, Romania, 2017;	10
20	S. Irimiciuc, R. Boidin, G. Bulai, S. Gurlui, P. Nemec, V. Nazabal, C. Focsa, Laser ablation of $(\text{GeSe}_2)_{100-x}(\text{Sb}_2\text{Se}_3)_x$ chalcogenide glasses : Influence of the target composition on the plasma plume dynamics, EMRS Spring Meeting, 2016, Lille, Franta;	10
21	G. Bulai, B. Chazallon, A. Popa, F. Iacomi, S. Gurlui, C. Focsa, Influence of rare earth addition in cobalt ferrite thin films deposited by PLD, EMRS Spring Meeting, 2016, Lille, Franta;	10
22	G. Bulai, O. Pompilian, V. Nazabal, P. Nemec, B. Chazallon, S. Gurlui, C. Focsa, Structural and optical properties of Ge-Sb-Te thin films grown by nanosecond and femtosecond laser ablation, International Conference on Physics of Advanced Materials, ICPAM 2016, Cluj-Napoca, Romania;	10
23	O. Rusu, A. Timofte, M. Cazacu, G. Bulai, S. Gurlui, Preliminary meteorological and air quality studies upon the natural climatic Ciric, Iasi area, ELSEDIMA 11th International Conference, 2016, Cluj-Napoca, Romania;	10
24	G. Bulai, A. Popa, D. Toloman, F. Iacomi, C. Focsa, S. Gurlui, Magnetic properties of Gd and La doped cobalt ferrite thin films, International Conference on NANOstructures and nanomaterials Self-Assembly, 2016, Messina, Italia;	10
25	G. Bulai, B. C. Hodoroba M. Pinteala, C. Focsa, S. Gurlui, Structural and magnetic properties of ferrite nanoparticles generated by laser ablation in liquid, International Conference on Extreme Light (ICEL) 2015, Bucuresti, Romania;	10
26	G. Bulai, B. Chazallon, I. Dumitru, S Gurlui, C. Focsa, Influence of deposition conditions on rare earth doped cobalt ferrite thin films obtained by PLD, Conference on Laser Ablation, 2015, Cairns, Australia;	10
27	G. Bulai, S. Gurlui, B. Parvatheeswara Rao, Ovidiu Florin Caltun, Alternating target laser ablation deposition of Cu doped cobalt ferrite thin films, International Conference on Magnetism, 2015, Barcelona, Spania;	10
28	G. Bulai, A. Fifere, I. Dumitru, M. Pinteala, C. Focsa, S. Gurlui, Structural and magnetic properties of cobalt ferrite nanoparticles obtained by laser ablation in liquid, International Conference on Magnetism, 2015, Barcelona, Spania;	10
29	M. Strat, N. Cimpoesu, V. Pohoata, E. Buruiana, G. Bulai, S. Gurlui, Selforganization of Nanoagregates Polyurethane Coumarins, Frontiers in Polymer Science, 2015, Riva del Garda, Italia;	10
30	G. Bulai, V. Nica, B. Chazallon, S. Gurlui, C. Focsa, Influence of rare earth addition on structural and magnetic properties of cobalt ferrite thin films, EMRS Spring Meeting, 2015, Lille, Franta;	10
31	M. M. Cazacu, A. Timofte, O. Rusu, B. Albina, G. Bulai, L. Leontie, and S. Gurlui, Advanced optical remote sensors for airborne and spaceborne platforms, The 4th International Conference on the Physics of Optical Materials and Devices, 2015, Budva, Muntenegu;	10
32	M. M. Cazacu, A. Timofte, O. Rusu, G. Bulai, S. Gurlui, Study of the physico-chemical properties of the atmosphere dynamics: long distance remote laser induced raman & breakdown spectroscopy, Environment & Progress, Simpozion național cu participare internațională, Cluj-Napoca, Romania, 2015;	10
33	E. V. Gafton, G. Bulai, I. Dumitru, B. P. Rao, O. F. Caltun, Pulsed laser deposition of Cu doped cobalt ferrite thin films, Amorphous and nanostructured magnetic materials, Iasi, Romania, 2015;	10
34	C. Virlan, G. Bulai, O. F. Caltun, R. Hempelmann, A. Pui, Rare earth doped Co ferrite for technological applications, Amorphous and nanostructured magnetic materials, Iasi, Romania, 2015;	10

35	G. Dascalu, S. Gurlui, P. Nemec, O. Pompilian, C. Focsa, Nano-, Pico- and Femto-second Laser Ablation of Pure and Rare-earth-doped Gallium Lanthanum Sulphide: A Comparative Study by Space- and Time-resolved Optical Emission Spectroscopy, International Conference on Laser Induced Breakdown Spectroscopy (LIBS 2014), 2014, Beijing, China;	10
36	G. Dascalu, O. G. Pompilian, I. Mihaila, S. Gurlui, P. Hawlova, P. Nemec, V. Nazabal, C. Focsa, Pure and Rare-Earth Doped Gallium Lanthanum Sulphide Amorphous Thin Films Grown by Pulsed Laser Deposition in Various Temporal Regimes, European Materials Research Society (E-MRS) Spring Meeting, E-MRS 2014, Lille, Franta;	10
37	R. Boidin, S. Gurlui, G. Dascalu, P. Nemec, V. Nazabal, C. Focsa, Pulsed Laser Deposition of Ge-Sb-Se glasses: A plasma plume dynamics study, European Materials Research Society Spring Meeting, E-MRS 2014, Lille, Franta;	10
38	G. Bulai, M. M. Cazacu, S. Gurlui, C. Focsa, Optical and spectral investigations of CoFe ₂ O ₄ and CoFe _{1.8} RE _{0.2} O ₄ (RE=Dy, Gd) plasma plume generated by laser ablation, TIM14 Physics Conference, TIM 14, Timisoara, Romania;	10
39	G. Dascalu, O. Pompilian, N. Cimpoesu, V. Nazabal, P. Nemec, P. Hawlova, B. Chazallon, S. Gurlui, C. Focsa, Improved surface structure and chemical composition of Ge-Sb-Te thin films grown by femtosecond and picosecond PLD, European Materials Research Society Spring Meeting, E-MRS 2014, Lille, France;	10
40	G. Dascalu, O. Pompilian, S. Gurlui, P. Nemec, C. Focsa, Space- and time-resolved optical emission spectroscopy of transient plasma generated by ns and fs laser ablation of Pr- and Er-doped GaLaS, European Materials Research Society Spring Meeting, E-MRS 2014, Lille, France;	10
41	G. Bulai, O. Pompilian, V. Nazabal, P. Nemec, B. Chazallon, S. Gurlui, C. Focsa, Influence of ablation conditions on the structural and optical properties of Ge-Sb-Te based thin films deposited by PLD, Electroceramics Conference, 2014, Bucharest, Romania;	10
42	G. Bulai, L. Diamandescu, I. Dumitru, S. Gurlui, M. Feder, O. F. Caltun, Synthesis and characterization of RE (RE=Dy, Gd, La, Sm, Yb, Er, Ho) doped cobalt ferrite bulk materials, Electroceramics Conference, 2014, Bucharest, Romania;	10
43	G. Bulai, L. Diamandescu, I. Dumitru, S. Gurlui, M. Feder, O. F. Caltun, Magnetic and magnetostrictive behaviour of rare earth doped cobalt ferrite bulk materials, European Conference on Magnetic Sensors and Actuators, EMSA 2014, Vienna, Austria;	10
44	G. Bulai, O. Caltun, S. Gurlui, M. Feder, B. Chazallon, C. Focsa, Structural and magnetic properties of rare earth doped cobalt ferrite thin films grown by pulsed laser deposition, International Conference on Thin Films, 2014, Dubrovnik, Croatia;	10
45	Rémi Boidin, Jean-Marc Kfoury, Silviu Gurlui, Georgiana Dascalu, Petr Nemec, Virginie Nazabal, Cristian Focsa, Space- and Time-Resolved Optical Emission Spectroscopy of Plasma Plume Dynamics in Laser Ablation of Ge-Sb-Se Chalcogenide Glasses, International Conference on Laser Induced Breakdown Spectroscopy (LIBS 2014), 2014, Beijing, China;	10
46	O. G. Pompilian, G. Dascalu, I. Mihaila, S. Gurlui, M. Olivier, P. Nemec, V. Nazabal, N. Cimpoesu, C. Focsa, Pulsed Laser Deposition of Gallium Lanthanum Sulphide Chalcogenide Thin Films, 12th International Conference on Laser Ablation, COLA 2013, Ischia, Italy;	10
47	G. Dascalu, M. S. Stratulat, O. F. Caltun, C. Focsa, Magnetic and magnetostrictive measurements of RE doped cobalt ferrite bulks and thin films, European Magnetic Sensors and Actuators, EMSA 2012, Prague, Czech Republic;	10
48	G. Dascalu, O. F. Caltun, G. S. N. Rao, B. P. Rao, K. H. Rao, Improved magnetostrictive properties of manganese substituted cobalt ferrite for automobile torque sensor applications, European Magnetic Sensors and Actuators, EMSA 2012, Prague, Czech Republic;	10
49	T. Popescu, G. Dascalu, L. Diamandescu, M. Feder, O. F. Caltun, Occurrence of the REFeO ₃ (RE=La, Gd, Dy) orthoferrite phases and their influence on the magnetic and sintering properties of the CoRE _{0.2} Fe _{1.8} O ₄ system, The 8th General Conference of Balkan Physical Union, BPU 2012, Constanta, Romania;	10
50	G. Dascalu, V. Nica, P. Postolache, O. F. Caltun, Rare earth addition in cobalt ferrite thin films, Joint Conference COST MPO904 Action & the 9th Edition IEEE-ROMSC 2012, Iasi, Romania	10

51	G. Dascalu, G. Pompilian, O. F. Caltun, B. Chazallon, C.Focsa, Rare earth doped cobalt ferrite thin films deposited by PLD, Conference On Laser Ablation, COLA 2011, Cancun, Mexico;	10
52	G. Dascalu, G. Pompilian, S. Gurlui, O. F. Caltun, C. Focsa, Structural and magnetic properties of rare earth doped cobalt ferrite thin films, Soft Magnetic Materials Conference, SMM 2011, Kos, Greece;	10
53	G. Dascalu, G. Pompilian, O. F. Caltun, S. Gurlui, C. Focsa, Pulsed Laser Deposition of Rare Earth Doped Cobalt Ferrite Thin Films, International Balkan Workshop on Applied Physics, IBWAP 2011, Constanta, Romania;	10
54	G. Dascalu, I. Mihaila, G. Popa, O. F. Caltun, The influence of the microstructure on the magnetic properties of cobalt ferrite thin films, International Balkan Workshop on Applied Physics, IBWAP 2010, Constanta, Romania;	10
55	G. Dascalu, C. Ursu, C. Focsa, O. Caltun, G. Popa, „Magnetic properties of cobalt ferrite thin films deposited by PLD, Conference on Plasma Physics and Applications, CPPA 2010, Iasi, Romania.	10
56	L. M. Hrib, O. Pompilian, G. Dascalu, O. Caltun, S. Gurlui, C. Focsa, Pulsed laser deposition of $[\text{CoFe}_2\text{O}_4]_x\text{-}[\text{BaTiO}_3]_{1-x}$ thin films: structural and plasma plume investigations, International Balkan Workshop on Applied Physics, IBWAP 2010, Constanta, Romania;	10
57	G. Dascalu, L. Ursu, V. Melnig, O. F. Caltun, Cobalt ferrite thin films deposited by spin coating technique, International Balkan Workshop on Applied Physics, IBWAP 2010, Constanta, Romania;	10
58	G. Dascalu, S. Belosetchi, L. M. Hrib, I. Dumitru, O. F. Caltun, Magnetic and electric properties of composites based on cobalt ferrite and barium titanate, International Balkan Workshop on Applied Physics, IBWAP 2009, Constanta, Romania;	10
59	G. Dascalu, G. Rusu, I. Mihaila, O. F. Caltun, G. Popa, Cobalt ferrite thin films by PLD, International Balkan Workshop on Applied Physics (IBWAP), 2008, Constanta, Romania;	10
60	Membru în Comitetul Local de Organizare „International Conference on Physics of Advanced Materials”, 22 - 28 Septembrie 2014, Iasi, Romania	15
	TOTAL	605

Nr. crt.	Participari la conferinte nationale	Punctaj
1	J. A. Gabor, G. Dascalu, D. G. Dimitriu, O. Pompilian, M. Agop, P. E. Nica, N. Cimpoesu, L. Stratulat, M. Osiac, C. Focsa, S. Gurlui, Laser Ablation Plasma (LAP): Techniques and Applications, Physics and Modern Education Technologies, 2013, Iasi, Romania;	2
2	G. Dascalu, V. Nica, P. Postolache, O. F. Caltun, Influence of rare earth doping ions on the structural and magnetic properties of cobalt ferrite, IEEE ROMSC 2011, Iasi, Romania;	2
3	S. Belosetchi, G. Dascalu, L. Boutiuc Hrib, I. Dumitru, O.F. Caltun, The electric properties of barium titanate - cobalt ferrite composites, Physics and Modern Education Technologies, 2010, Iasi, Romania;	2
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	TOTAL	42

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