

Fișă de evaluare generala conform standardelor universitatii

1. Lucrări științifice publicate in extenso in reviste ISI

Nr.	Lucrarea publicata	FI	Nr. aut	Punct aj
1	L. Sirghi, V. Tiron, D. Ciurac, Mechanical properties of AFM probes with deposited thin films, Thin solid Films (2014)	1.6	3	40.33
2	Apetrei, A; Sirghi, L, Stochastic Adhesion of Hydroxylated Atomic Force Microscopy Tips to Supported Lipid Bilayers, LANGMUIR 29 (2013) 16098.	4.18	2	137.9
3	Ruiz, A; Zychowicz, M; Ceriotti, L; Mehn, D; Sirghi, L; Rauscher, H; Mannelli, I; Colpo, P; Buzanska, L; Rossi, F, Microcontact printing and microspotting as methods for direct protein patterning on plasma deposited polyethylene oxide: application to stem cell patterning, BIOMEDICAL MICRODEVICES 15 (2013) 495.	2.71	10	18.76
4	Tiron, V; Coman, T; Sirghi, L; Popa, G, Atomic force microscopy investigation of piezoelectric response of ZnO thin films deposited by HIPIMS, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS 15 (2013) 77.	0.51	4	13.9
5	Tiron, V; Sirghi, L; Popa, G, Control of aluminum doping of ZnO:Al thin films obtained by high-power impulse magnetron sputtering, THIN SOLID FILMS 520 (2012) 4305.	1.6	3	40.33
6	Sirghi, L, Transport Mechanisms in Capillary Condensation of Water at a Single-Asperity Nanoscopic Contact, LANGMUIR 28 (2012) 2558.	4.18	1	275.8
7	Kulisch, W; Popov, C; Sasaki, T; Sirghi, L; Rauscher, H; Rossi, F; Reithmaier, JP, On the development of the morphology of ultrananocrystalline diamond films, PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE 208 (2011) 70.	1.67	7	17.89
8	Sirghi, L, PLASMA CLEANING OF SILICON SURFACE OF ATOMIC FORCE MICROSCOPY PROBES, ROMANIAN JOURNAL OF PHYSICS 56 (2011) 144.	0.52	1	56.2
9	von Keudell, A; Awakowicz, P; Benedikt, J; Raballand, V; Yanguas-Gil, A; Opretzka, J; Flotgen, C; Reuter, R; Byelykh, L; Halfmann, H; Stapelmann, K; Denis, B; Wunderlich, J; Muranyi, P; Rossi, F; Kylian, O; Hasiwa, N; Ruiz, A; Rauscher, H; Sirghi, L; Comoy, E; Dehen, C; Challier, L; Deslys, JP, Inactivation of Bacteria and Biomolecules by Low-Pressure Plasma Discharges, PLASMA PROCESSES AND POLYMERS 7 (2010) 327.	3.73	23	10.82
10	Sirghi, L; Rossi, F, The effect of adhesion on the contact radius in atomic force microscopy indentation, NANOTECHNOLOGY 20 (2009) .	3.84	2	127.7

11	Kulisch, W; Popov, C; Gilliland, D; Ceccone, G; Sirghi, L; Ruiz, A; Rossi, F, Surface properties of differently prepared ultrananocrystalline diamond surfaces, DIAMOND AND RELATED MATERIALS 18 (2009) 745.	1.7	7	18.14
12	Kulisch, W; Gilliland, D; Ceccone, G; Sirghi, L; Rauscher, H; Gibson, PN; Zurn, M; Bretagnol, F; Rossi, F, Ion beam sputtering of Ta(2)O(5) films on thermoplast substrates as waveguides for biosensors, JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B 27 (2009) 1180.	1.26	9	11.18
13	Kylian, O; Benedikt, J; Sirghi, L; Reuter, R; Rauscher, H; von Keudell, A; Rossi, F, Removal of Model Proteins Using Beams of Argon Ions, Oxygen Atoms and Molecules: Mimicking the Action of Low-Pressure Ar/O-2 ICP Discharges, PLASMA PROCESSES AND POLYMERS 6 (2009) 255.	3.73	7	35.54
14	Sirghi, L; Ruiz, A; Colpo, P; Rossi, F, Atomic force microscopy indentation of fluorocarbon thin films fabricated by plasma enhanced chemical deposition at low radio frequency power, THIN SOLID FILMS 517 (2009) 3310.	1.6	4	30.25
15	Sirghi, L; Bretagnol, F; Mornet, S; Sasaki, T; Gilliland, D; Colpo, P; Rossi, F, Atomic force microscopy characterization of the chemical contrast of nanoscale patterns fabricated by electron beam lithography on polyethylene glycol oxide thin films, ULTRAMICROSCOPY 109 (2009) 222.	2.47	7	24.74
16	Cerioti, L; Buzanska, L; Rauscher, H; Mannelli, I; Sirghi, L; Gilliland, D; Hasiwa, M; Bretagnol, F; Zychowicz, M; Ruiz, A; Bremer, S; Coecke, S; Colpo, P; Rossi, F, Fabrication and characterization of protein arrays for stem cell patterning, SOFT MATTER 5 (2009) 1406.	3.9	8	32.38
17	Ruiz, A; Buzanska, L; Gilliland, D; Rauscher, H; Sirghi, L; Sobanski, T; Zychowicz, M; Cerioti, L; Bretagnol, F; Coecke, S; Colpo, P; Ross, F, Micro-stamped surfaces for the patterned growth of neural stem cells, BIOMATERIALS 29 (2008) 4766.	7.6	12	40.08
18	Mornet, S; Bretagnol, F; Mannelli, I; Valsesia, A; Sirghi, L; Colpo, P; Rossi, F, Large-Scale Fabrication of Bi-Functional Nanostructured Polymer Surfaces for Selective Biomolecular Adhesion, SMALL 4 (2008) 1919.	7.82	7	70.6
19	Rossi, F; Kylian, O; Rauscher, H; Gilliland, D; Sirghi, L, Use of a low-pressure plasma discharge for the decontamination and sterilization of medical devices, PURE AND APPLIED CHEMISTRY 80 (2008) 1939.	3.38	5	45.56
20	Kulisch, W; Popov, C; Rauscher, H; Sirghi, L; Sasaki, T; Bliznakov, S; Rossi, F, Investigation of the nucleation and growth mechanisms of nanocrystalline diamond/amorphous carbon nanocomposite films, DIAMOND AND RELATED MATERIALS 17 (2008) 1116.	1.7	7	18.14
21	Popov, C; Kulisch, W; Bliznakov, S; Ceccone, G; Gilliland, D; Sirghi, L; Rossi, F, Surface modification of nanocrystalline diamond/amorphous carbon composite films, DIAMOND AND RELATED MATERIALS 17 (2008) 1229.	1.7	7	18.14

22	Sirghi, L; Ponti, J; Broggi, F; Rossi, F, Probing elasticity and adhesion of live cells by atomic force microscopy indentation, EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS 37 (2008) 935.	2.27	4	40.3
23	Kulisch, W; Gilliland, D; Ceccone, G; Rauscher, H; Sirghi, L; Colpo, P; Rossi, F, Ion beam deposition of tantalum pentoxide thin film at room temperature, JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A 26 (2008) 991.	1.43	7	15.83
24	Heinz, P; Bretagnol, F; Mannelli, I; Sirghi, L; Valsesia, A; Ceccone, G; Gilliland, D; Landfester, K; Rauscher, H; Rossi, F, Poly(N-isopropylacrylamide) grafted on plasma-activated poly(ethylene oxide): Thermal response and interaction with proteins, LANGMUIR 24 (2008) 6166.	4.18	10	27.58
25	Bretagnol, F; Sirghi, L; Mornet, S; Sasaki, T; Gilliland, D; Colpo, P; Rossi, F, Direct fabrication of nanoscale bio-adhesive patterns by electron beam surface modification of plasma polymerized poly ethylene oxide-like coatings, NANOTECHNOLOGY 19 (2008) .	3.84	7	36.49
26	Kulisch, W; Popov, C; Bliznakov, S; Ceccone, G; Gilliland, D; Sirghi, L; Rossi, F, Surface and bioproperties of nanocrystalline diamond/amorphous carbon nanocomposite films, THIN SOLID FILMS 515 (2007) 8407.	1.6	7	17.29
27	Gohier, A; Djouadi, MA; Dubosc, M; Granier, A; Minea, TM; Sirghi, L; Rossi, F; Paredes, P; Alvarez, F, Single- and few-walled carbon nanotubes grown at temperatures as low as 450 degrees C: Electrical and field emission characterization, JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY 7 (2007) 3350.	1.14	9	10.38
28	Belegriou, S; Mannelli, I; Sirghi, L; Bretagnol, F; Valsesia, A; Rauscher, H; Rossi, F, Formation of viscoelastic protein droplets on a chemically functionalized surface, JOURNAL OF PHYSICAL CHEMISTRY B 111 (2007) 8713.	3.6	7	34.43
29	Sirghi, L; Kylian, O; Gilliland, D; Ceccone, G; Rossi, F, Cleaning and hydrophilization of atomic force microscopy silicon probes, JOURNAL OF PHYSICAL CHEMISTRY B 110 (2006) 25975.	3.6	5	48.2
30	Sirghi, L; Rossi, F, Adhesion and elasticity in nanoscale indentation, APPLIED PHYSICS LETTERS 89 (2006) .	3.79	2	126.2
31	Sirghi, L; Popa, G; Hatanaka, Y, Heating of polymer substrate by discharge plasma in radiofrequency magnetron sputtering deposition, THIN SOLID FILMS 515 (2006) 1334.	1.6	3	40.33
32	Sirghi, L; Szożkiewicz, R; Riedo, E, Volume of a nanoscale water bridge, LANGMUIR 22 (2006) 1093.	4.18	3	91.93
33	Sirghi, L; Hatanaka, Y; Aoki, T, Photocatalytic chemisorption of water on titanium dioxide thin films obtained by radio frequency magnetron deposition, APPLIED SURFACE SCIENCE 244 (2005) 408.	2.11	3	50.53

34	Miron, C; Roca, A; Hoisie, S; Cozorici, P; Sirghi, L, Photoinduced bactericidal activity of TiO ₂ thin films obtained by radiofrequency magnetron sputtering deposition, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS 7 (2005) 915.	0.51	5	11.12
35	Sirghi, L; Aoki, T; Hatanaka, Y, Diagnostics of the radio frequency magnetron discharge plasma used for TiO ₂ thin film sputtering deposition, SURFACE & COATINGS TECHNOLOGY 187 (2004) 358.	1.94	3	47.13
36	Nakamura, M; Makino, K; Sirghi, L; Aoki, T; Hatanaka, Y, Hydrophilic properties of hydro-oxygenated TiO _x films prepared by plasma enhanced chemical vapor deposition, SURFACE & COATINGS TECHNOLOGY 169 (2003) 699.	1.94	5	28.28
37	Sirghi, L, Effect of capillary-condensed water on the dynamic friction force at nanoasperity contacts, APPLIED PHYSICS LETTERS 82 (2003) 3755.	3.79	1	252.4
38	Sirghi, L; Hatanaka, Y, Hydrophilicity of amorphous TiO ₂ ultra-thin films, SURFACE SCIENCE 530 (2003) L323.	1.83	2	67.4
39	Sirghi, L; Aoki, T; Hatanaka, Y, Friction force microscopy study of the hydrophilicity of TiO ₂ thin films deposited by radio frequency magnetron sputtering, SURFACE REVIEW AND LETTERS 10 (2003) 345.	0.27	3	13.73
40	Medvid, A; Berzina, B; Trinkler, L; Fedorenko, L; Lytvyn, P; Yusupov, N; Yamaguchi, T; Sirghi, L; Aoyama, M, Formation of nanostructure on surface of SiC by laser radiation, PHYSICA STATUS SOLIDI A-APPLIED RESEARCH 195 (2003) 199.	1.67	9	13.91
41	Sirghi, L; Popa, G; Hatanaka, Y, Charged particles in the reactor chamber of a remote plasma enhanced CVD system, PLASMA PHYSICS 669 (2003) 369.	0.75	3	23.33
42	Sirghi, L; Aoki, T; Hatanaka, Y, Hydrophilicity of TiO ₂ thin films obtained by radio frequency magnetron sputtering deposition, THIN SOLID FILMS 422 (2002) 55.	1.6	3	40.33
43	Nakamura, M; Sirghi, L; Aoki, T; Hatanaka, Y, Study on hydrophilic property of hydro-oxygenated amorphous TiO _x : OH thin films, SURFACE SCIENCE 507 (2002) 778.	1.83	4	33.7
44	Sirghi, L; Hatanaka, Y; Popa, G, Control of plasma parameters and wall sheath voltage in radio frequency magnetron discharge by grid bias, JOURNAL OF APPLIED PHYSICS 91 (2002) 4026.	2.21	3	52.53
45	Mihaila, I; Popa, G; Anita, V; Costin, C; Sirghi, L; Turcu, I, Electrons distribution function for an Argon magnetron discharge with an Aluminium target, VIDE-SCIENCE TECHNIQUE ET APPLICATIONS 57 (2002) 316.	0	6	4.167
46	Sirghi, L; Nakamura, M; Hatanaka, Y; Takai, O, Atomic force microscopy study of the hydrophilicity of TiO ₂ thin films obtained by radio frequency magnetron sputtering and plasma enhanced chemical vapor depositions, LANGMUIR 17 (2001) 8199.	4.18	4	68.95

47	Nakamura, M; Kato, S; Aoki, T; Sirghi, L; Hatanaka, Y, Formation mechanism for TiOx thin film obtained by remote plasma enhanced chemical vapor deposition in H-2-O-2 mixture gas plasma, THIN SOLID FILMS 401 (2001) 138.	1.6	5	24.2
48	Nakamura, M; Kato, S; Aoki, T; Sirghi, L; Hatanaka, Y, Role of terminal OH groups on the electrical and hydrophilic properties of hydro-oxygenated amorphous TiOx : OH thin films, JOURNAL OF APPLIED PHYSICS 90 (2001) 3391.	2.21	5	31.52
49	Sirghi, L; Nakagiri, N; Sugimura, H; Takai, O, Analysis of atomic force curve data for mapping of surface properties in water, JAPANESE JOURNAL OF APPLIED PHYSICS PART 1-REGULAR PAPERS BRIEF COMMUNICATIONS & REVIEW PAPERS 40 (2001) 1420.	1.06	4	22.15
50	Sirghi, L; Nakagiri, N; Sugisaki, K; Sugimura, H; Takai, O, Effect of sample topography on adhesive force in atomic force spectroscopy measurements in air, LANGMUIR 16 (2000) 7796.	4.18	5	55.16
51	Sirghi, L; Ohe, K; Costin, C; Popa, G, Electron kinetics in the hot-cathode negative glow of a helium discharge, JAPANESE JOURNAL OF APPLIED PHYSICS PART 1-REGULAR PAPERS BRIEF COMMUNICATIONS & REVIEW PAPERS 39 (2000) 1338.	1.06	4	22.15
52	Sirghi, L; Ohe, K; Popa, G, Electron kinetics of ionization waves in helium positive columns, JAPANESE JOURNAL OF APPLIED PHYSICS PART 1-REGULAR PAPERS SHORT NOTES & REVIEW PAPERS 38 (1999) 5251.	1.06	3	29.53
53	Sirghi, L; Ohe, K; Popa, G, The role of the cathode region of a direct current helium discharge for origination of ionization waves, JOURNAL OF PHYSICS D-APPLIED PHYSICS 31 (1998) 551.	2.52	3	58.73
54	Sirghi, L; Ohe, K; Popa, G, Interactions between ionization waves and potential structure formed at a constriction of the dc He positive column, JOURNAL OF PHYSICS D-APPLIED PHYSICS 30 (1997) 2431.	2.52	3	58.73
55	Sirghi, L; Ohe, K; Kimura, T, Nonlocal particle loss effects on the electron kinetics in a direct current helium diffusion-controlled positive column, PHYSICS OF PLASMAS 4 (1997) 1160.	2.37	3	55.73
TOTAL			lucrari =	2639

PUNCTAJ REALIZAT LUCRARI PUBLICATE IN REVISTE ISI = 2639

*NOTA: Lista lucrarilor publicate in reviste de specialitate ISI si numarul de citari pot fi verificata in baza de date ISI Thomson Web of Science cu termenii de cautare Sirghi, L (Author) S-au luat valorile pe anul 2013 ale factorii de impact al revistelor, conform Journal of Citation Report

http://apps.webofknowledge.com/Search.do?product=WOS&SID=Z1oZ9yck2MzuszG6T3m&search_mode=GeneralSearch&prID=b5090dd3-7ddd-4a18-92da-3bce7999277c

12. Citări și recenzii ale lucrărilor științifice

Nr.	Lucrarea citata	Nr citari	FI (v. medie)	Nr. aut	Punct aj
1	Ruiz, A; Zychowicz, M; Ceriotti, L; Mehn, D; Sirghi, L; Rauscher, H; Mannelli, I; Colpo, P; Buzanska, L; Rossi, F, Microcontact printing and microspotting as methods for direct protein patterning on plasma deposited polyethylene oxide: application to stem cell patterning, BIOMEDICAL MICRODEVICES 15 (2013) 495.	1	5.08	10	11.16
2	Tiron, V; Coman, T; Sirghi, L; Popa, G, Atomic force microscopy investigation of piezoelectric response of ZnO thin films deposited by HIPIMS, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS 15 (2013) 77.	1	0.82	4	6.6
3	Tiron, V; Sirghi, L; Popa, G, Control of aluminum doping of ZnO:Al thin films obtained by high-power impulse magnetron sputtering, THIN SOLID FILMS 520 (2012) 4305.	1	1.59	3	13.933
4	Sirghi, L, Transport Mechanisms in Capillary Condensation of Water at a Single-Asperity Nanoscopic Contact, LANGMUIR 28 (2012) 2558.	3	5.67	1	370.2
5	Kulisch, W; Popov, C; Sasaki, T; Sirghi, L; Rauscher, H; Rossi, F; Reithmaier, JP, On the development of the morphology of ultrananocrystalline diamond films, PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE 208 (2011) 70.	6	1.37	7	32.057
6	von Keudell, A; Awakowicz, P; Benedikt, J; Raballand, V; Yanguas-Gil, A; Opretzka, J; Flotgen, C; Reuter, R; Byelykh, L; Halfmann, H; Stapelmann, K; Denis, B; Wunderlich, J; Muranyi, P; Rossi, F; Kylian, O; Hasiwa, N; Ruiz, A; Rauscher, H; Sirghi, L; Comoy, E; Dehen, C; Challier, L; Deslys, JP, Inactivation of Bacteria and Biomolecules by Low-Pressure Plasma Discharges, PLASMA PROCESSES AND POLYMERS 7 (2010) 327.	41	3.69	23	149.38
7	Sirghi, L; Rossi, F, The effect of adhesion on the contact radius in atomic force microscopy indentation, NANOTECHNOLOGY 20 (2009) .	1	3.73	2	42.3
8	Kulisch, W; Popov, C; Gilliland, D; Cecccone, G; Sirghi, L; Ruiz, A; Rossi, F, Surface properties of differently prepared ultrananocrystalline diamond surfaces, DIAMOND AND RELATED MATERIALS 18 (2009) 745.	6	2.03	7	43.371
9	Kulisch, W; Gilliland, D; Cecccone, G; Sirghi, L; Rauscher, H; Gibson, PN; Zurn, M; Bretagnol, F; Rossi, F, Ion beam sputtering of Ta(2)O(5) films on thermoplast substrates as waveguides for biosensors, JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B 27 (2009) 1180.	1	2.21	9	6.0222
10	Kylian, O; Benedikt, J; Sirghi, L; Reuter, R; Rauscher, H; von Keudell, A; Rossi, F, Removal of Model Proteins Using Beams of Argon Ions, Oxygen Atoms and Molecules: Mimicking the Action of Low-Pressure Ar/O-2 ICP Discharges, PLASMA PROCESSES AND POLYMERS 6 (2009) 255.	15	3.31	7	163.29

11	Sirghi, L; Ruiz, A; Colpo, P; Rossi, F, Atomic force microscopy indentation of fluorocarbon thin films fabricated by plasma enhanced chemical deposition at low radio frequency power, THIN SOLID FILMS 517 (2009) 3310.	8	5.86	4	254.4
12	Sirghi, L; Bretagnol, F; Mornet, S; Sasaki, T; Gilliland, D; Colpo, P; Rossi, F, Atomic force microscopy characterization of the chemical contrast of nanoscale patterns fabricated by electron beam lithography on polyethylene glycol oxide thin films, ULTRAMICROSCOPY 109 (2009) 222.	2	2.7	7	18.286
13	Cerioti, L; Buzanska, L; Rauscher, H; Mannelli, I; Sirghi, L; Gilliland, D; Hasiwa, M; Bretagnol, F; Zychowicz, M; Ruiz, A; Bremer, S; Coecke, S; Colpo, P; Rossi, F, Fabrication and characterization of protein arrays for stem cell patterning, SOFT MATTER 5 (2009) 1406.	18	4.33	8	217.35
14	Ruiz, A; Buzanska, L; Gilliland, D; Rauscher, H; Sirghi, L; Sobanski, T; Zychowicz, M; Cerioti, L; Bretagnol, F; Coecke, S; Colpo, P; Ross, F, Micro-stamped surfaces for the patterned growth of neural stem cells, BIOMATERIALS 29 (2008) 4766.	50	6.19	12	557.5
15	Mornet, S; Bretagnol, F; Mannelli, I; Valsesia, A; Sirghi, L; Colpo, P; Rossi, F, Large-Scale Fabrication of Bi-Functional Nanostructured Polymer Surfaces for Selective Biomolecular Adhesion, SMALL 4 (2008) 1919.	10	6.66	7	204.57
16	Rossi, F; Kylian, O; Rauscher, H; Gilliland, D; Sirghi, L, Use of a low-pressure plasma discharge for the decontamination and sterilization of medical devices, PURE AND APPLIED CHEMISTRY 80 (2008) 1939.	7	3.62	5	115.36
17	Kulisch, W; Popov, C; Rauscher, H; Sirghi, L; Sasaki, T; Bliznakov, S; Rossi, F, Investigation of the nucleation and growth mechanisms of nanocrystalline diamond/amorphous carbon nanocomposite films, DIAMOND AND RELATED MATERIALS 17 (2008) 1116.	5	1.174	7	23.914
18	Popov, C; Kulisch, W; Bliznakov, S; Ceccone, G; Gilliland, D; Sirghi, L; Rossi, F, Surface modification of nanocrystalline diamond/amorphous carbon composite films, DIAMOND AND RELATED MATERIALS 17 (2008) 1229.	15	2.06	7	109.71
19	Sirghi, L; Ponti, J; Broggi, F; Rossi, F, Probing elasticity and adhesion of live cells by atomic force microscopy indentation, EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS 37 (2008) 935.	27	2.668	4	427.68
20	Kulisch, W; Gilliland, D; Ceccone, G; Rauscher, H; Sirghi, L; Colpo, P; Rossi, F, Ion beam deposition of tantalum pentoxide thin film at room temperature, JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A 26 (2008) 991.	3	1.17	7	14.314
21	Heinz, P; Bretagnol, F; Mannelli, I; Sirghi, L; Valsesia, A; Ceccone, G; Gilliland, D; Landfester, K; Rauscher, H; Rossi, F, Poly(N-isopropylacrylamide) grafted on plasma-activated poly(ethylene oxide): Thermal response and interaction with proteins, LANGMUIR 24 (2008) 6166.	12	4.77	10	126.48

22	Bretagnol, F; Sirghi, L; Mornet, S; Sasaki, T; Gilliland, D; Colpo, P; Rossi, F, Direct fabrication of nanoscale bio-adhesive patterns by electron beam surface modification of plasma polymerized poly ethylene oxide-like coatings, NANOTECHNOLOGY 19 (2008) .	10	3	7	100
23	Kulisch, W; Popov, C; Bliznakov, S; Ceccone, G; Gilliland, D; Sirghi, L; Rossi, F, Surface and bioproperties of nanocrystalline diamond/amorphous carbon nanocomposite films, THIN SOLID FILMS 515 (2007) 8407.	3	2.24	7	23.486
24	Gohier, A; Djouadi, MA; Dubosc, M; Granier, A; Minea, TM; Sirghi, L; Rossi, F; Paredes, P; Alvarez, F, Single- and few-walled carbon nanotubes grown at temperatures as low as 450 degrees C: Electrical and field emission characterization, JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY 7 (2007) 3350.	2	1.83	9	10.356
25	Belegriou, S; Mannelli, I; Sirghi, L; Bretagnol, F; Valsesia, A; Rauscher, H; Rossi, F, Formation of viscoelastic protein droplets on a chemically functionalized surface, JOURNAL OF PHYSICAL CHEMISTRY B 111 (2007) 8713.	2	3.85	7	24.857
26	Sirghi, L; Kylian, O; Gilliland, D; Ceccone, G; Rossi, F, Cleaning and hydrophilization of atomic force microscopy silicon probes, JOURNAL OF PHYSICAL CHEMISTRY B 110 (2006) 25975.	18	4.04	5	326.88
27	Sirghi, L; Rossi, F, Adhesion and elasticity in nanoscale indentation, APPLIED PHYSICS LETTERS 89 (2006) .	16	1.26	2	281.6
28	Sirghi, L; Popa, G; Hatanaka, Y, Heating of polymer substrate by discharge plasma in radiofrequency magnetron sputtering deposition, THIN SOLID FILMS 515 (2006) 1334.	7	1.41	3	89.133
29	Sirghi, L; Szoszkiewicz, R; Riedo, E, Volume of a nanoscale water bridge, LANGMUIR 22 (2006) 1093.	43	3.95	3	1275.7
30	Sirghi, L; Hatanaka, Y; Aoki, T, Photocatalytic chemisorption of water on titanium dioxide thin films obtained by radio frequency magnetron deposition, APPLIED SURFACE SCIENCE 244 (2005) 408.	2	2.42	3	38.933
31	Miron, C; Roca, A; Hoisie, S; Cozorici, P; Sirghi, L, Photoinduced bactericidal activity of TiO2 thin films obtained by radiofrequency magnetron sputtering deposition, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS 7 (2005) 915.	5	1.28	5	35.6
32	Sirghi, L; Aoki, T; Hatanaka, Y, Diagnostics of the radio frequency magnetron discharge plasma used for TiO2 thin film sputtering deposition, SURFACE & COATINGS TECHNOLOGY 187 (2004) 358.	5	2.1	3	86.667
33	Nakamura, M; Makino, K; Sirghi, L; Aoki, T; Hatanaka, Y, Hydrophilic properties of hydro-oxygenated TiOx films prepared by plasma enhanced chemical vapor deposition, SURFACE & COATINGS TECHNOLOGY 169 (2003) 699.	18	1.31	5	130.32

34	Sirghi, L, Effect of capillary-condensed water on the dynamic friction force at nanoasperity contacts, APPLIED PHYSICS LETTERS 82 (2003) 3755.	31	2.12	1	1624.4
35	Sirghi, L; Hatanaka, Y, Hydrophilicity of amorphous TiO ₂ ultra-thin films, SURFACE SCIENCE 530 (2003) L323.	32	2.75	2	1040
36	Sirghi, L; Aoki, T; Hatanaka, Y, Friction force microscopy study of the hydrophilicity of TiO ₂ thin films deposited by radio frequency magnetron sputtering, SURFACE REVIEW AND LETTERS 10 (2003) 345.	8	6.66	3	381.87
37	Medvid, A; Berzina, B; Trinkler, L; Fedorenko, L; Lytvyn, P; Yusupov, N; Yamaguchi, T; Sirghi, L; Aoyama, M, Formation of nanostructure on surface of SiC by laser radiation, PHYSICA STATUS SOLIDI A-APPLIED RESEARCH 195 (2003) 199.	1	0.6	9	2.4444
38	Sirghi, L; Aoki, T; Hatanaka, Y, Hydrophilicity of TiO ₂ thin films obtained by radio frequency magnetron sputtering deposition, THIN SOLID FILMS 422 (2002) 55.	54	2.8	3	1188
39	Nakamura, M; Sirghi, L; Aoki, T; Hatanaka, Y, Study on hydrophilic property of hydro-oxygenated amorphous TiO _x : OH thin films, SURFACE SCIENCE 507 (2002) 778.	23	2.69	4	366.85
40	Sirghi, L; Hatanaka, Y; Popa, G, Control of plasma parameters and wall sheath voltage in radio frequency magnetron discharge by grid bias, JOURNAL OF APPLIED PHYSICS 91 (2002) 4026.	2	3	3	46.667
41	Sirghi, L; Nakamura, M; Hatanaka, Y; Takai, O, Atomic force microscopy study of the hydrophilicity of TiO ₂ thin films obtained by radio frequency magnetron sputtering and plasma enhanced chemical vapor depositions, LANGMUIR 17 (2001) 8199.	25	1.98	4	310
42	Nakamura, M; Kato, S; Aoki, T; Sirghi, L; Hatanaka, Y, Formation mechanism for TiO _x thin film obtained by remote plasma enhanced chemical vapor deposition in H-2-O-2 mixture gas plasma, THIN SOLID FILMS 401 (2001) 138.	36	4.13	5	666.72
43	Nakamura, M; Kato, S; Aoki, T; Sirghi, L; Hatanaka, Y, Role of terminal OH groups on the electrical and hydrophilic properties of hydro-oxygenated amorphous TiO _x : OH thin films, JOURNAL OF APPLIED PHYSICS 90 (2001) 3391.	27	1.46	5	211.68
44	Sirghi, L; Nakagiri, N; Sugimura, H; Takai, O, Analysis of atomic force curve data for mapping of surface properties in water, JAPANESE JOURNAL OF APPLIED PHYSICS PART 1-REGULAR PAPERS BRIEF COMMUNICATIONS & REVIEW PAPERS 40 (2001) 1420.	6	2.4	4	87
45	Sirghi, L; Nakagiri, N; Sugisaki, K; Sugimura, H; Takai, O, Effect of sample topography on adhesive force in atomic force spectroscopy measurements in air, LANGMUIR 16 (2000) 7796.	37	3.05	5	525.4
46	Sirghi, L; Ohe, K; Popa, G, Electron kinetics of ionization waves in helium positive columns, JAPANESE JOURNAL OF APPLIED PHYSICS PART 1-REGULAR PAPERS SHORT NOTES & REVIEW PAPERS 38 (1999) 5251.	1	0.86	3	9.0667

47	Sirghi, L; Ohe, K; Popa, G, The role of the cathode region of a direct current helium discharge for origination of ionization waves, JOURNAL OF PHYSICS D-APPLIED PHYSICS 31 (1998) 551.	5	2.44	3	98
48	Sirghi, L; Ohe, K; Popa, G, Interactions between ionization waves and potential structure formed at a constriction of the dc He positive column, JOURNAL OF PHYSICS D-APPLIED PHYSICS 30 (1997) 2431.	5	1.89	3	79.667
49	Sirghi, L; Ohe, K; Kimura, T, Nonlocal particle loss effects on the electron kinetics in a direct current helium diffusion-controlled positive column, PHYSICS OF PLASMAS 4 (1997) 1160.	5	1.9	3	80
TOTAL		662		citari	12049

TOTAL PUNCTAJ REALIZAT ACTIVITATEA DE CERCETARE 14688.14

22 iulie, 2014

conf. dr. habil. Lucel Sirghi

*NOTA: Lista lucrarilor in reviste de specialitate ISI si numarul de citari pot fi verificate in baza de date ISI Thomson Web of Science cu termenii de cautare Sirghi, L (Author) S-au luat valorile pe anul 2013 ale factorii de impact al revistelor, conform Journal of Citation Report. Valoarea medie a factorilor de impact ai revistelor care citeaza a fost calculata cu valorile factorilor de impact JCR 2013

http://apps.webofknowledge.com/Search.do?product=WOS&SID=Z1oZ9yck2MzuszG6T3m&search_mode=GeneralSearch&prID=b5090dd3-7ddd-4a18-92da-3bce7999277c

Fișă de evaluare generala conform standardelor universitatii

Activitatea didactica

Nr.	Categoria	nr. Pagini	nr. Autori	indicator
	1. Tratatate si manuale universitare			
1	Bazele Fizicii Plasmei G. Popa and L. Sirghi, 320p, Editura Universitatii "Al. I. Cuza", Iasi, Romania, 2000 (IBSN: 973-9312-80-2).	319	2	47.85
	2. Proiecte didactice			
1	Infiintare/dotare laborator de diagnoza plasmei FT anV, MS I			40
2	Modernizare/dotare laborator de fizica plasmei			40
3	Infiintare/dotare laborator de analiza structurala si biostructurala, FM si BF, an III			40
4	Organizare scoala internationala de vara in diagnoza plasmei cu sonde electrice (2011)			40
5	Participarea in proiectul educativ FP7 FUSENET			40
	3. Materiale suport curs, seminar, lucrări practice și programe analitice detaliate			
1	Suport seminar (probleme selectate si rezolvate) de fizica plasmei, 1990			10
2	Manual si documentatie de laborator pentru diagnoza plasmei cu sonde electrice , 2011			10
3	Suport laborator de instrumentatie virtuala (exercitii si programe didactice in LabView) 2004			10
4	Suport curs (powerpoint) Modelarea numerica si analogica a proceselor biologice, 2012			10
5	Suport curs (powerpoint) Metode de analiza structurala si biostructurala, 2013			10
6	Suport curs (powerpoint) Capitole speciale de fizicii plasmei, SD 2013			10
7	Elaborare programa analitica curs si lab de "Metode si mijloace de diagnoza plasmei de interes tehnologic" , FT an V, 2008			10
8	Elaborare programa analitica curs si lab de "Diagnoza Plasmei" , MS an I, 2008			10
9	Elaborare programa analitica curs si lab de "Instrumentatie virtuala", FT an V, 2005			10
10	Elaborare progama analitica curs de "Capitole speciale de fizica plasmei", MS II, 2005			10
11	Elaborare progama analitica curs de Modelarea numerica si analogica a proceselor biologice, FM si BF an II, 2012			10
12	Elaborare progama analitica curs de Analiza structurala si biostructurala, MS an I			10
	TOTAL			367.85

PUNCTAJ REALIZAT (ACTIVITATEA DIDACTICA) : 367.85

22 iulie, 2014

conf. dr. habil. Lucel Sirghi