

Fișa privind standardele minimale pe domenii ale UAIC

nume	gradul didactic	domeniul	1. Activitatea didactică și profesională										2. Activitatea de cercetare		3. Recunoașterea impactului activității		Total	
			Cărți în edituri internaționale recunoscute Web of Science în calitate de autor	Capitole de cărți în edituri internaționale recunoscute Web of Science în calitate de autor/ Review-uri în reviste cotate ISI	Cărți în edituri internaționale recunoscute Web of Science în calitate de editor	Cărți, manuale, îndrumare de laborator în edituri naționale sau alte edituri internaționale ca autor, note interne, prezentări susținute pentru aprobarea analizelor de date în cadrul colaborărilor mari	Capitole de cărți în edituri naționale sau alte edituri internaționale ca autor	Lucrări în extenso (cel puțin 3 pagini) publicate în Proceedings-uri indexate ISI	Brevete de invenție internaționale acordate	Brevete de invenție naționale acordate	Director/ responsabil/ coordonator pentru programe de studii, programe de formare continuă, proiecte educaționale și proiecte de infrastructură naționale acordate	Director/ responsabil pentru proiecte de cercetare câștigate în valoare de V euro prin competiție națională sau internațională	Total criteriu A	Articole științifice originale în extenso ca autor	Articole științifice originale în extenso ca prim autor sau autor corespondent,	Citări în reviste științifice cu factor de impact care se regăsesc în InCites Journal Citation Reports sau în cărți în edituri recunoscute Web of Science	Indicele Hirsch	
			$A_1 = \sum_{i=1}^n 4 \cdot n_i^{0.4}$	$A_2 = \sum_{i=1}^n 1 / n_i^{0.4}$	$A_3 = \sum_{i=1}^n 0.5 / n_i^{0.4}$	$A_4 = \sum_{i=1}^n 0.5 / n_i^{0.4}$	$A_5 = \sum_{i=1}^n 0.2 / n_i^{0.4}$	$A_6 = \sum_{i=1}^n 0.2 / n_i^{0.4}$	$A_7 = \sum_{i=1}^n 3 / n_i^{0.4}$	$A_8 = \sum_{i=1}^n 0.5 / n_i^{0.4}$	$A_9 = \sum_{i=1}^n 0.5$	$A_{10} = \sum_{i=1}^n V_i / 1000000$	$A = \sum_{i=1}^{10} A_i$	$I = \sum_i AIS_i / n_i^{0.4}$	$P = \sum_i AIS_i$	$C = \sum_{i=1}^n c_i / n_i^{0.4}$	h	
Claudiu COSTIN	Conf.	FIZICĂ	0	0.20	0.17	0.17	0	0	0	0	0	5.47	6.01	6.15	12.98	106.26	12	23.28

Nota: se preiau valorile din fișele de calcul A, I-P și C

Criterii minimale	prof/CS I	conf/CS II
A	2	1
I	4	2
P	4	2
C	40	20
h	10	5
$T = A+P/2+I/2+C/20+h/5$	12	5

Activitatea didactica si profesionala			
1. Cărți în edituri internaționale recunoscute Web of Science în calitate de autor, $A_1 = \Sigma 4/n_{i_eff}$			
Date identificare	Numar autori	Numar efectiv	A1
	0	0	0.00
2. Capitole de cărți în edituri internaționale recunoscute Web of Science în calitate de autor/ Review-uri în reviste cotate ISI, $A_2 = \Sigma 1/n_{i_eff}$			
Date identificare	Numar autori	Numar efectiv	A2
Tiberiu Minea, Tomas Kozak, Claudiu Costin, Jon Tomas Gudmundsson, Daniel Lundin, chapter "Modeling the high power impulse magnetron sputtering discharge", in book High Power Impulse Magnetron Sputtering, 1st Edition, Fundamentals, Technologies, Challenges and Applications, Editors: Daniel Lundin, Jon Tomas Gudmundsson, Tiberiu Minea, Elsevier, 2020, Paperback ISBN: 9780128124543, eBook ISBN: 9780128124550, 392 pages	5	5	0.20
3. Cărți în edituri internaționale recunoscute Web of Science în calitate de editor, $A_3 = \Sigma 0.5/n_{i_eff}$			
Date identificare	Numar autori	Numar efectiv	A3
Editors D. Luca, L. Sirghi, C. Costin, Recent advances in technology research and education, Proceedings of the 16th International Conference on Global Research and Education Inter-Academia 2017, in the series: Advances in Intelligent Systems and Computing, Vol. 660, Springer, 2018, ISBN 978-3-319-67458-2	3	3	0.17
4. Cărți, manuale, îndrumare de laborator în edituri naționale sau alte edituri internaționale ca autor, note interne, prezentări susținute pentru aprobarea analizelor de date în cadrul colaborărilor mari, $A_4 = \Sigma 0.5/n_{i_eff}$			
Date identificare	Numar autori	Numar efectiv	A4
L. Sirghi, C. Costin, A. S. Chipur, FIZICA ȘI TEHNICA VIDULUI - Lucrări de laborator, Editura Universității „Alexandru Ioan Cuza” din Iași, 2024, ISBN 978-606-714-905-0	3	3	0.17
5. Capitole de cărți în edituri naționale sau alte edituri internaționale ca autor, $A_5 = \Sigma 0.2/n_{i_eff}$			
Date identificare	Numar autori	Numar efectiv	A5
	0	0	0.00
6. Lucrări în extenso (cel puțin 3 pagini) publicate în Proceedings-uri indexate ISI, $A_6 = \Sigma 0.2/n_{i_eff}$			
Date identificare	Numar autori	Numar efectiv	A6
	0	0	0.00
7. Brevete de invenție internaționale acordate, $A_7 = \Sigma 3/n_{i_eff}$			
Date identificare	Numar autori	Numar efectiv	A7
	0	0	0.00
8. Brevete de invenție naționale acordate, $A_8 = \Sigma 0.5/n_{i_eff}$			
Date identificare	Numar autori	Numar efectiv	A8
	0	0	0.00
9. Director/ responsabil/ coordonator pentru programe de studii, programe de formare continuă, proiecte educaționale și proiecte de infrastructură (proiectele de cercetare se exclud), $A_9 = \Sigma 0.5$			

Date identificare		A9
		0.00
10. Director/ responsabil pentru proiecte de cercetare in valoare de V euro câștigate prin competiție națională sau internațională, A_10 = $\sum V_i/100000$		
Date identificare	Suma totala in Euro	A10
Grant Nr. 1EU-1/2 / 01.07.2016, din cadrul PNCDI III, Program 5 / Subprogram 5.2 / Modul 5.2.1 EURATOM-RO Fuziune, titlul "Participarea Romaniei la EUROfusion WPPFC si cercetari complementare", acronim PFC-RO, perioada 2016-2021, finantare ANCS si EURATOM	228518.6	2.29
Grant Nr. 1EU-1 / 05.06.2014, din cadrul Programului PN II, CAPACITATI, Modul III, EURATOM-RO, domeniul Fuziune, titlul "Participarea Romaniei la EUROfusion WPPFC si cercetari complementare", acronim WPPFC-RO, perioada 2014-2016, finantare ANCS si EURATOM	89572.7	0.90
Grant Nr. 1EU-3 / 11.08.2008 din cadrul Programului PN II CAPACITATI, Modulul III, Aria tematica PC7-EURATOM-Fuziune, titlul "Proprietatile paturilor de sarcina spatiala si fenomene asociate interactiunii perete-plasma magnetizata. Aplicatii la ITER", perioada 2008-2013, finantare ANCS si EURATOM	229383	2.29
Total A10		5.47
TOTAL		6.01

Note:

1. la fiecare item se vor adauga atatea linii cate sunt necesare
2. In categoriile capitole de cărți la Edituri internaționale recunoscute (2) și capitole de cărți în edituri naționale recunoscute (5) nu se includ capitolele publicate in volumele de proceedingsuri de la conferințe. Acestea se vor include in categoria (6) doar daca sunt publicate in volume indexate ISI.

Activitatea de cercetare

Nr.	Articol	An	prim autor/ corespondent	numar autori	Numar efectiv	AIS	I	P
1	V. Tiron, M. A. Ciolan, G. Bulai, I. Burducea, D. Iancu, J. Julin, M. Kivekäs, C. Costin, Deuterium retention in tungsten co-deposits with neon and argon inclusions, Nuclear Materials and Energy 39 (2024) 101656 (9pp) https://doi.org/10.1016/j.nme.2024.101656	2024	1	8	6.50	0.703	0.11	0.70
2	C. Costin, T. M. Minea, Two-dimensional analytical description of the plasma potential in a magnetron discharge, Scientific Reports 13 (2023) 15883 (10pp) https://doi.org/10.1038/s41598-023-42949-7	2023	1	2	2.00	1.059	0.53	1.06
3	C. Costin, I. Mihaila, H.J. van der Meiden, H. Tanaka, J. Scholten, H.J.N. van Eck, Plasma rotation and axial flow velocities in Magnum-PSI from cross-correlation measurements, Plasma Sources Sci. Technol. 32 (2023) 075010 (13pp) https://doi.org/10.1088/1361-6595/ace5d2	2023	1	6	5.50	0.653	0.12	0.65
4	C. Costin, I. Mihaila, H.J. van der Meiden, J. Scholten, H.J.N. van Eck, J.W.M. Vernimmen, "Advances in Magnum-PSI probe diagnosis in support of plasma-surface interaction studies", Plasma Physics and Controlled Fusion 64 (2022) 125008 (15 pp) https://doi.org/10.1088/1361-6587/ac9927	2022	1	6	5.50	0.893	0.16	0.89
5	C. Costin, Comment on "Effects of an Oblique Magnetic Field on Sheath Formation in the Presence of Electron Emission", Contrib. Plasma Phys. 62(3) (2022) e202100137 (3 pp) https://doi.org/10.1002/ctpp.202100137	2022	1	1	1.00	0.347	0.35	0.35
6	V. Tiron, G. Bulai, C. Costin, I.-L. Velicu, P. Dinca, D. Iancu, I. Burducea, "Growth and characterization of W thin films with controlled Ne and Ar contents deposited by bipolar HiPIMS", Nuclear Materials and Energy 29 (2021) 101091 (9 pp)	2021	1	7	6.00	0.799	0.13	0.80
7	C. Costin, "Secondary electron emission under magnetic constraint: from Monte Carlo simulations to analytical solution", Scientific Reports 11 (2021) 1874 (11 pp)	2021	1	1	1.00	1.207	1.21	1.21

8	C. Costin, "Particle distribution functions at plasma-surface interface", AIP Advances 10 (2020) 115308 (7 pp)	2020	1	1	1.00	0.374	0.37	0.37
9	P. Dinca, V. Tiron, I.-L. Velicu, C. Porosnicu, B. Butoi, A. Velea, E. Grigore, C. Costin, C.P. Lungu, "Negative ion-induced deuterium retention in mixed W-Al layers co-deposited in dual-HiPIMS", Surf. Coat. Technol. 363 (2019), pp. 273-281	2019	0	9	7.00	0.512	0.07	0.00
10	A. Revel, T. Minea, C. Costin, "2D PIC-MCC simulations of magnetron plasma in HiPIMS regime with external circuit", Plasma Sources Sci. Technol. 27 (2018) 105009 (21 pp)	2018	0	3	3.00	0.804	0.27	0.00
11	V. Tiron, I.-L. Velicu, A. V. Nastuta, C. Costin, G. Popa, Z. Kechidi, C. Ionita and R. Schrittwieser, "Enhanced extraction efficiency of the sputtered material from a magnetically assisted high power impulse hollow cathode", Plasma Sources Sci. Technol. 27 (2018) 085005 (11 pp)	2018	1	8	6.50	0.804	0.12	0.80
12	S. Brezinsek et al., "Plasma-wall interaction studies within the EUROfusion consortium: progress on plasma-facing components development and qualification", Nuclear Fusion 57(11) (2017) 116041	2017	0	169	53.50	0.836	0.02	0.00
13	C. Costin, G. Popa, V. Anita, "Electrical probe characteristic recovery by measuring only one time-dependent parameter", Rev. Sci. Instrum. 87 (2016) 033506 (7 pp)	2016	1	3	3.00	0.541	0.18	0.54
14	C. Costin, V. Anita, G. Popa, J. Scholten, G. De Temmerman, "Tailoring the charged particle fluxes across the target surface of Magnum-PSI", Plasma Sources Sci. Technol. 25 (2016) 025023 (10 pp)	2016	1	5	5.00	0.836	0.17	0.84
15	C. Lazarou, D. Koukounis, A. S. Chiper, C. Costin, I. Topala, G. E. Georghiou, "Numerical modeling of the effect of the level of nitrogen impurities in a helium parallel plate dielectric barrier discharge", Plasma Sources Sci. Technol. 24 (2015) 035012 (13 pp)	2015	0	6	5.50	0.852	0.15	0.00
16	C. Costin, V. Anita, F. Ghiorghiu, G. Popa, G. De Temmerman, M. A. van den Berg, J. Scholten, S. Brons, "Cross-section analysis of Magnum-PSI plasma beam using 2D multi-probe system", Plasma Sources Sci. Technol. 24 (2015) 015014 (10 pp)	2015	1	8	6.50	0.852	0.13	0.85

17	O. Antonin, V. Tiron, C. Costin, G. Popa, T.M. Minea, "On the HiPIMS benefits of multi-pulse operating mode", J. Phys. D: Appl. Phys. 48 (2015) 015202 (10 pp)	2015	0	5	5.00	0.838	0.17	0.00
18	I. Mihaila, S. Costea, C. Costin, and G. Popa, "On Negative Slope of Probe Characteristics in Magnetized Plasmas", Contrib. Plasma Phys. 54(3) (2014) 291-297	2014	0	4	4.00	0.280	0.07	0.00
19	T.M. Minea, C. Costin, A. Revel, D. Lundin, L. Caillault, "Kinetics of plasma species and their ionization in short pulsed HiPIMS by particle modeling", Surf. Coat. Technol. 255 (2014), pp. 52-61	2014	0	5	5.00	0.515	0.10	0.00
20	C. Costin, T. M. Minea, and G. Popa, "Electron transport in magnetrons by a posteriori Monte Carlo simulations", Plasma Sources Sci. Technol. 23 (2014) 015012 (11 pp)	2014	1	3	3.00	0.878	0.29	0.88
21	N. Brenning, D. Lundin, T. Minea, C. Costin and C. Vitelaru, „Spokes and charged particle transport in HiPIMS magnetrons”, J. Phys. D: Appl. Phys. 46 (2013) 084005 (10 pp)	2013	0	5	5.00	0.809	0.16	0.00
22	I. Mihaila, M. L. Solomon, C. Costin, and G. Popa, „On Electrical Probes Used in Magnetized Plasma Diagnostics”, Contrib. Plasma Phys. 53(1) (2013), pp. 96 – 101	2013	1	4	4.00	0.392	0.10	0.39
23	C. Costin, V. Tiron, J. Faustin, and G. Popa, “Fast Imaging Investigation on Pulsed Magnetron Discharge”, IEEE Transactions on Plasma Science 39(11) (2011), pp. 2482-2483	2011	1	4	4.00	0.424	0.11	0.42
24	M. L. Solomon, V. Anita, C. Costin, I. Mihaila, G. Popa, H. van der Meiden, R. Al, M. van de Pol, G. van Rooij, and J. Rapp, “Multi-Channel Analyzer Investigations of Ion Flux at the Target Surface in Pilot-PSI”, Contributions to Plasma Physics 50(9) (2010), pp. 898-902	2010	0	10	7.50	0.466	0.06	0.00
25	C. Costin, T. M. Minea, G. Popa, and G. Gousset, “Plasma kinetics of Ar/O ₂ magnetron discharge by 2D multi-fluid modeling”, J. Vac. Sci. Technol. A 28(2) (2010), pp. 322-328	2010	1	4	4.00	0.452	0.11	0.45
26	V. Tiron, S. Dobrea, C. Costin, and G. Popa, “On the carbon and tungsten sputtering rate in a magnetron discharge”, Nucl. Instrum. Meth. B 267(2) (2009), pp. 434-437	2009	0	4	4.00	0.350	0.09	0.00

27	J. Brotankova, E. Martines, J. Adamek, J. Stockel, G. Popa, C. Costin, C Ionita, R. Schrittwieser, and G. Van Oost, "Novel Technique for Direct Measurement of the Plasma Diffusion Coefficient in Magnetized Plasma", Contributions to Plasma Physics 48(5-7) (2008), pp. 418-423	2008	0	9	7.00	0.405	0.06	0.00
28	J. Adamek, M. Kocan, R. Panek, J. P.Gunn, E. Martines, J. Stöckel, C. Ionita, G. Popa, C. Costin, J. Brotankova, R. Schrittwieser, and G. Van Oost, "Simultaneous Measurements of Ion Temperature by Segmented Tunnel and Katsumata Probe", Contributions to Plasma Physics 48(5-7) (2008), pp. 395-399	2008	0	12	8.50	0.405	0.05	0.00
29	C. Costin, T. M. Minea, G. Popa, and G. Gousset, "Fluid Modelling of DC Magnetrons - Low Pressure Extension and Experimental Validation", Plasma Process. & Polym. 4(S1) (2007), pp. S960-S964	2007	1	4	4.00	0.730	0.18	0.73
30	J. Brotankova, J. Adamek, J. Stockel, E. Martines, G. Popa, C. Costin, R. Schrittwieser, C. Ionita, G. van Oost, and L. van de Peppel, "A probe-based method for measuring the transport coefficient in the tokamak edge region", Czechoslovak Journal of Physics, Vol. 56 (2006), pp. 1321-1328	2006	0	10	7.50	0.133	0.02	0.00
31	R. Schrittwieser, C. Ionita, J. Adamek, J. Stockel, J. Brotankova, E. Martines, G. Popa, C. Costin, L. van de Peppel, and G. van Oost, "Direct measurements of the plasma potential by katsumata-type probes", Czechoslovak Journal of Physics, Vol. 56 (2006), Suppl. B, pp. B145-B150	2006	0	10	7.50	0.133	0.02	0.00
32	C. Costin, G. Popa, and G. Gousset, "On the secondary electron emission in DC magnetron discharge", Journal of Optoelectronics and Advanced Materials 7 (2005), pp. 2465	2005	1	3	3.00	0.119	0.04	0.12
33	C. Costin, L. Marques, G. Popa, and G. Gousset, "Two-dimensional fluid approach to the dc magnetron discharge", Plasma Sources Sci. Technol. 14 (2005), pp. 168-176	2005	1	4	4.00	0.883	0.22	0.88
34	C. Costin, G. Gousset, and G. Popa, "Modélisation d'une décharge magnétron dc dans l'Argon par un modèle fluide", Le Vide, Nr. 304, 2/4 (2002), pp. 308-315	2002	1	3	3.00	0.035	0.01	0.04

35	I. Mihaila, G. Popa, V. Anita, C. Costin, L. Sirghi, and I. Turcu, "La fonction de distribution des électrons dans une décharge magnétron dans l'Argon avec une cible en Aluminium", Le Vide, Nr. 304, 2/4 (2002), pp. 316-325	2002	0	6	5.50	0.035	0.01	0.00
36	L. Sirghi, K. Ohe, C. Costin, and G. Popa, "Electron Kinetics in the Hot-Cathode Negative Glow of a Helium Discharge", Jpn. J. Appl. Phys., Vol. 39 (2000), pp. 1338-1342	2000	0	4	4.00	0.754	0.19	0.00
TOTAL							6.15	12.98

CITARI						
Nr.	Articol	An	n (numar autori)	numar efectiv	numar citari (fara autocitari)	c/n_ef
1	S. Brezinsek et al., "Plasma-wall interaction studies within the EUROfusion consortium: progress on plasma-facing components development and qualification", Nuclear Fusion 57(11) (2017) 116041	2017	169	53.50	102	1.91
2	N. Brenning, D. Lundin, T. Minea, C. Costin and C. Vitelaru, „Spokes and charged particle transport in HiPIMS magnetrons”, J. Phys. D: Appl. Phys. 46 (2013) 084005 (10 pp)	2013	5	5.00	88	17.60
3	C. Lazarou, D. Koukounis, A. S. Chiper, C. Costin, I. Topala, G. E. Georghiou, "Numerical modeling of the effect of the level of nitrogen impurities in a helium parallel plate dielectric barrier discharge", Plasma Sources Sci. Technol. 24 (2015) 035012 (13 pp)	2015	6	5.50	65	11.82
4	O. Antonin, V. Tiron, C. Costin, G. Popa, T.M. Minea, "On the HiPIMS benefits of multi-pulse operating mode", J. Phys. D: Appl. Phys. 48 (2015) 015202 (10 pp)	2015	5	5.00	55	11.00
5	C. Costin, L. Marques, G. Popa, and G. Gousset, “Two-dimensional fluid approach to the dc magnetron discharge”, Plasma Sources Sci. Technol. 14 (2005), pp. 168-176	2005	4	4.00	49	12.25
6	A. Revel, T. Minea, C. Costin, "2D PIC-MCC simulations of magnetron plasma in HiPIMS regime with external circuit", Plasma Sources Sci. Technol. 27 (2018) 105009 (21 pp)	2018	3	3.00	36	12.00
7	T.M. Minea, C. Costin, A. Revel, D. Lundin, L. Caillault, "Kinetics of plasma species and their ionization in short pulsed HiPIMS by particle modeling", Surf. Coat. Technol. 255 (2014), pp. 52-61	2014	5	5.00	33	6.60
8	J. Adamek, M. Kocan, R. Panek, J. P.Gunn, E. Martines, J. Stöckel, C. Ionita, G. Popa, C. Costin, J. Brotankova, R. Schrittwieser, and G. Van Oost, “Simultaneous Measurements of Ion Temperature by Segmented Tunnel and Katsumata Probe”, Contributions to Plasma Physics 48(5-7) (2008), pp. 395-399	2008	12	8.50	21	2.47

9	R. Schrittwieser, C. Ionita, J. Adamek, J. Stockel, J. Brotankova, E. Martines, G. Popa, C. Costin, L. van de Peppel, and G. van Oost, "Direct measurements of the plasma potential by katsumata-type probes", Czechoslovak Journal of Physics, Vol. 56 (2006), Suppl. B, pp. B145–B150	2006	10	7.50	14	1.87
10	C. Costin, G. Popa, and G. Gousset, "On the secondary electron emission in DC magnetron discharge", Journal of Optoelectronics and Advanced Materials 7 (2005), pp. 2465	2005	3	3.00	12	4.00
11	C. Costin, V. Anita, G. Popa, J. Scholten, G. De Temmerman, "Tailoring the charged particle fluxes across the target surface of Magnum-PSI", Plasma Sources Sci. Technol. 25 (2016) 025023 (10 pp)	2016	5	5.00	11	2.20
12	J. Brotankova, J. Adamek, J. Stockel, E. Martines, G. Popa, C. Costin, R. Schrittwieser, C. Ionita, G. van Oost, and L. van de Peppel, "A probe-based method for measuring the transport coefficient in the tokamak edge region", Czechoslovak Journal of Physics, Vol. 56 (2006), pp. 1321–1328	2006	10	7.50	10	1.33
13	V. Tiron, G. Bulai, C. Costin, I.-L. Velicu, P. Dinca, D. Iancu, I. Burducea, "Growth and characterization of W thin films with controlled Ne and Ar contents deposited by bipolar HiPIMS", Nuclear Materials and Energy 29 (2021) 101091 (9 pp)	2021	7	6.00	8	1.33
14	P. Dinca, V. Tiron, I.-L. Velicu, C. Porosnicu, B. Butoi, A. Velea, E. Grigore, C. Costin, C.P. Lungu, "Negative ion-induced deuterium retention in mixed W-Al layers co-deposited in dual-HiPIMS", Surf. Coat. Technol. 363 (2019), pp. 273-281	2019	9	7.00	7	1.00
15	V. Tiron, S. Dobrea, C. Costin, and G. Popa, "On the carbon and tungsten sputtering rate in a magnetron discharge", Nucl. Instrum. Meth. B 267(2) (2009), pp. 434-437	2009	4	4.00	7	1.75
16	C. Costin, V. Anita, F. Ghiorghiu, G. Popa, G. De Temmerman, M. A. van den Berg, J. Scholten, S. Brons, "Cross-section analysis of Magnum-PSI plasma beam using 2D multi-probe system", Plasma Sources Sci. Technol. 24 (2015) 015014 (10 pp)	2015	8	6.50	6	0.92
17	C. Costin, T. M. Minea, G. Popa, and G. Gousset, "Plasma kinetics of Ar/O ₂ magnetron discharge by 2D multi-fluid modeling", J. Vac. Sci. Technol. A 28(2) (2010), pp. 322-328	2010	4	4.00	6	1.50
18	C. Costin, "Secondary electron emission under magnetic constraint: from Monte Carlo simulations to analytical solution", Scientific Reports 11 (2021) 1874 (11 pp)	2021	1	1.00	5	5.00

19	C. Costin, V. Tiron, J. Faustin, and G. Popa, "Fast Imaging Investigation on Pulsed Magnetron Discharge", IEEE Transactions on Plasma Science 39(11) (2011), pp. 2482-2483	2011	4	4.00	5	1.25
20	C. Costin, T. M. Minea, G. Popa, and G. Gousset, "Fluid Modelling of DC Magnetrons - Low Pressure Extension and Experimental Validation", Plasma Process. & Polym. 4(S1) (2007), pp. S960-S964	2007	4	4.00	5	1.25
21	J. Brotankova, E. Martinez, J. Adamek, J. Stockel, G. Popa, C. Costin, C. Ionita, R. Schrittwieser, and G. Van Oost, "Novel Technique for Direct Measurement of the Plasma Diffusion Coefficient in Magnetized Plasma", Contributions to Plasma Physics 48(5-7) (2008), pp. 418-423	2008	9	7.00	5	0.71
22	C. Costin, T. M. Minea, and G. Popa, "Electron transport in magnetrons by a posteriori Monte Carlo simulations", Plasma Sources Sci. Technol. 23 (2014) 015012 (11 pp)	2014	3	3.00	4	1.33
23	I. Mihaila, M. L. Solomon, C. Costin, and G. Popa, „On Electrical Probes Used in Magnetized Plasma Diagnostics”, Contrib. Plasma Phys. 53(1) (2013), pp. 96 – 101	2013	4	4.00	4	1.00
24	V. Tiron, I.-L. Velicu, A. V. Nastuta, C. Costin, G. Popa, Z. Kechidi, C. Ionita and R. Schrittwieser, "Enhanced extraction efficiency of the sputtered material from a magnetically assisted high power impulse hollow cathode", Plasma Sources Sci. Technol. 27 (2018) 085005 (11 pp)	2018	8	6.50	3	0.46
25	C. Costin, "Particle distribution functions at plasma-surface interface", AIP Advances 10 (2020) 115308 (7 pp)	2020	1	1.00	2	2.00
26	M. L. Solomon, V. Anita, C. Costin, I. Mihaila, G. Popa, H. van der Meiden, R. Al, M. van de Pol, G. van Rooij, and J. Rapp, "Multi-Channel Analyzer Investigations of Ion Flux at the Target Surface in Pilot-PSI", Contributions to Plasma Physics 50(9) (2010), pp. 898-902	2010	10	7.50	2	0.27
27	L. Sirghi, K. Ohe, C. Costin, and G. Popa, "Electron Kinetics in the Hot-Cathode Negative Glow of a Helium Discharge", Jpn. J. Appl. Phys., Vol. 39 (2000), pp. 1338-1342	2000	4	4.00	2	0.50
28	I. Mihaila, S. Costea, C. Costin, and G. Popa, "On Negative Slope of Probe Characteristics in Magnetized Plasmas", Contrib. Plasma Phys. 54(3) (2014) 291-297	2014	4	4.00	1	0.25

29	C. Costin, I. Mihaila, H.J. van der Meiden, H. Tanaka, J. Scholten, H.J.N. van Eck, Plasma rotation and axial flow velocities in Magnum-PSI from cross-correlation measurements, Plasma Sources Sci. Technol. 32 (2023) 075010 (13pp) https://doi.org/10.1088/1361-6595/ace5d2	2023	6	5.50	1	0.18
30	C. Costin, T. M. Minea, Two-dimensional analytical description of the plasma potential in a magnetron discharge, Scientific Reports 13 (2023) 15883 (10pp) https://doi.org/10.1038/s41598-023-42949-7	2023	2	2.00	1	0.50
Total					570	106.26

Note:

Coloanele A-F pot fi prezentate și comasat.

Numărul efectiv de autori este calculat conform formulelor din Anexa nr. 3, OM 6129/2016.

n , dacă $n \leq 5$; $(n + 5)/2$, dacă $5 < n \leq 15$; $(n + 15)/3$, dacă $15 < n \leq 75$ și $(n + 45)/4$, dacă $n > 75$.

Citările trebuie să fie în reviste științifice cu factor de impact care se regăsesc în InCites Journal

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3. Recunoastere si impactul activitatii (A3) - citari detaliat

Numar total citari (fara autocitari) =

570

3.1	Citari in reviste indexate ISI	Nr autori	Nr autori efectiv	ci	C
1	S. Brezinsek et al., "Plasma-wall interaction studies within the EUROfusion consortium: progress on plasma-facing components development and qualification", NUCLEAR FUSION 57(11) (2017) 116041	169	53.50	102	1.91
C102	Repair of heat load damaged plasma-facing material using the wire-based laser metal deposition process By: Tweer, J; Day, R; Derra, T; Dorow-Gerspach, D; Gräfe, S; Rasinski, M; Wirtz, M; Linsmeier, C; Bergs, T; Natour, G Source NUCLEAR MATERIALS AND ENERGY Volume 41 DOI 10.1016/j.nme.2024.101787 Article Number 101787 Published DEC 2024 Indexed 2024-11-23				
C101	Damage evolution in Plasma Facing Materials by a sequential multiscale approach By: Lo Presti, G; La Magna, A Source NUCLEAR FUSION Volume 64 Issue 10 DOI 10.1088/1741-4326/ad6ba6 Article Number 106051 Published OCT 1 2024 Indexed 2024-09-14				
C100	Competitive barrier and trapping effects of helium bubbles on hydrogen isotopes migration behavior in tungsten By: Sun, F; Chen, DY; Liu, QH; Zhu, JP; Li, XC; Zhou, HS; Oya, Y; Luo, LM; Wu, YC Source JOURNAL OF NUCLEAR MATERIALS Volume 599 DOI 10.1016/j.jnucmat.2024.155197 Article Number 155197 Published OCT 2024 Indexed 2024-07-02				
C99	Implications of T loss in first wall armor and structural materials on T-self-sufficiency in future burning fusion devices By: Schmid, K; Schwarz-Selinger, T; Arredondo, R; Theodorou, A; Lobo, TP Source NUCLEAR FUSION Volume 64 Issue 7 DOI 10.1088/1741-4326/ad52a7 Article Number 076056 Published JUL 1 2024 Indexed 2024-06-23				
C97	Local electronic excitations induced by low-velocity light ion stopping in tungsten By: Ponomareva, E; Pitthan, E; Hole, R; Shams-Latifi, J; Kiely, GP; Primetzhofer, D; Sand, AE PHYSICAL REVIEW B Volume 109 Issue 16 DOI 10.1103/PhysRevB.109.165123 Article Number 165123 Published APR 11 2024 Indexed 2024-05-31				
C96	Laser temperature programmed desorption: A flexible technique to study ion-surface interaction By: Minissale, M; Dunand, A; Hirt, P; Faure, JB; Grisolia, C; Angot, T; Gallais, L; Bisson, R REVIEW OF SCIENTIFIC INSTRUMENTS Volume 95 Issue 3 DOI 10.1063/5.0186019 Article Number 033004 Published MAR 1 2024 Indexed 2024-04-07				
C95	A step towards the diagnostic of the ITER first wall: in-situ LIBS measurements in the WEST tokamak By: Favre, A; Bultel, A; Sankhe, ML; Vartanian, S et al PHYSICA SCRIPTA Volume 99 Issue 3 DOI 10.1088/1402-4896/ad2826 Article Number 035609 Published MAR 1 2024 Indexed 2024-03-18				
C94	Emission of the backscattered electron in the energy range of 20 to 100 keV By: Xie, AG; Liu, YF; Dong, HJ ANNALS OF NUCLEAR ENERGY Volume 196 DOI 10.1016/j.anucene.2023.110230 Article Number 110230 Published FEB 2024 Indexed 2023-12-16				
C93	Long plasma duration operation analyses with an international multi-machine (tokamaks and stellarators) database By: Litaudon, X; Bosch, HS; Morisaki, T; Barbarino, M; Bock, A; Belonohy, E; Brezinsek, S; Bucalossi, J; Coda, S; Daniel, R; JET contributors (JET contributors) NUCLEAR FUSION Volume 64 Issue 1 DOI 10.1088/1741-4326/ad0606 Article Number 015001 Published JAN 1 2024 Indexed 2023-12-08				
C92	Laser light scattering (LLS) to observe plasma impact on the adhesion of micrometer-sized particles to a surface By: Shefer, D; Nikipelov, A; van de Kerkhof, M; Banine, V; Beckers, J JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume 56 Issue 45 DOI 10.1088/1361-6463/aceb02 Article Number 455201 Published NOV 9 2023 Indexed 2023-08-25				

C91	<p>Crystallographic and temperature effects in low-energy collisions for plasma-material interactions By: Samolyuk, GD; Zarkadoula, E; Lau, C; Kumar, A; Rapp, J; Eisenbach, M; Osetskiy, Y MATERIALIA Volume 32 DOI10.1016/j.mtl.2023.101886 Article Number 101886 Published DEC 2023 Indexed 2023-10-15</p>
C90	<p>Laser light scattering (LLS) to observe plasma impact on the adhesion of micrometer-sized particles to a surface By: Shefer, D; Nikipelov, A; van de Kerkhof, M; Banine, V; Beckers, J JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume 56 Issue 45 DOI10.1088/1361-6463/aceb02 Article Number 455201 Published NOV 9 2023 Indexed 2023-08-25</p>
C89	<p>Nanostructure formation and D retention in redeposited-like W exposed to linear plasmas By: Dellasega, D; Alberti, G; Fortuna-Zalesna, E; Zielinski, W; Pezzoli, A; Möller, S; Unterberg, B; Passoni, M; Hakola, A NUCLEAR MATERIALS AND ENERGY Volume 36 DOI10.1016/j.nme.2023.101492 Article Number 101492 Published SEP 2023 Indexed 2023-10-22</p>
C88	<p>Influence of thermal annealing and of the substrate on sputter-deposited thin films from EUROFER97 on tungsten By: Pitthan, E; Tran, TT; Moldarev, D; Rubel, M; Primetzhofer, D NUCLEAR MATERIALS AND ENERGY Volume 35 DOI10.1016/j.nme.2023.101449 Article Number 101449 Published JUN 2023 Indexed 2023-08-29</p>
C87	<p>Thin films sputter-deposited from EUROFER97 in argon and deuterium atmosphere: Material properties and deuterium retention By: Pitthan, E; Petersson, P; Tran, TT; Moldarev, D; Kaur, R; Shams-Latifi, J; Strom, P; Hans, M; Rubel, M; Primetzhofer, D NUCLEAR MATERIALS AND ENERGY Volume 34 Article Number 101375 DOI10.1016/j.nme.2023.101375 Published MAR 2023 Indexed 2023-05-30</p>
C86	<p>Role of magnetic field and bias configuration on HiPIMS deposition of W films By: Vavassori, D; Mirani, F; Gatti, F; Dellasega, D; Passoni, M SURFACE & COATINGS TECHNOLOGY Volume 458 Article Number 129343 DOI10.1016/j.surfcoat.2023.129343 Published APR 15 2023 Indexed 2023-04-26</p>
C85	<p>Linear plasma device GyM for plasma-material interaction studies By: Uccello, A; Bin, W; Bruschi, A; Causa, F; Cremona, A; De Angeli, M; Farina, D; Gatto, G; Gervasini, G; Ghezzi, F; Gittini, G; Granucci, G; Grosso, G; Laguardia, L; Lontano, M; Mellera, V; Minelli, D; Nardone, A; Pedroni, M; Ripamonti, F; Rispoli, N; Vassallo, E; Ricci, D FRONTIERS IN PHYSICS Volume 11 Article Number 1108175 DOI10.3389/fphy.2023.1108175 Published FEB 1 2023 Indexed 2023-03-13</p>
C84	<p>The impact of hydrogen plasma on the structure and morphology of tin and lead micrometer sized particles By: Shefer, D; Nikipelov, A; van de Kerkhof, M; Marvi, Z; Banine, V; Beckers, J JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume 56 Issue 8 Article Number 085204 DOI10.1088/1361-6463/acb3d9 Published FEB 23 2023 Indexed 2023-03-04</p>
C83	<p>Analysis of hydrogen isotopes retention in thermonuclear reactors with LIBS supported by machine learning By: Gasior, P.; Gromelski, W.; Kastek, M.; Kwasnik, A. SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY Volume 199 Article Number 106576 DOI10.1016/j.sab.2022.106576 Published JAN 2023 Indexed 2023-02-23</p>
C82	<p>Global SOLPS-ITER and ERO2.0 coupling in a linear device for the study of plasma-wall interaction in helium plasma By: Alberti, G.; Tonello, E.; Carminati, P.; Uccello, A.; Bonnin, X.; Romazanov, J.; Brezinsek, S.; Passoni, M. NUCLEAR FUSION Volume 63 Issue 2 Article Number 026020 DOI10.1088/1741-4326/acacaf Published FEB 1 2023 Indexed 2023-01-22</p>
C81	<p>Effects of magnetic geometry on dynamics of current-convective turbulence in tokamak divertor plasma By: Stepanenko, AA PHYSICS OF PLASMAS Volume 29 Issue 12 Article Number 122309 DOI10.1063/5.0119629 Published DEC 2022 Indexed 2023-01-07</p>

C80	<p>Effect of continuously flowing liquid Li limiter on particle and heat fluxes during H-mode discharges in EAST By: Zuo, GZ; Li, CL; Maingi, R; Meng, XC; Andruczyk, D; Sun, PJ; Sun, Z; Xu, W; Huang, M; Tang, ZL NUCLEAR MATERIALS AND ENERGY Volume 33 Article Number 101263 DOI10.1016/j.nme.2022.101263 Published OCT 2022 Indexed 2022-12-24</p>
C79	<p>Measurements of multiple heat flux components at the divertor target by using surface eroding thermocouples (invited) By: Ren, J; Donovan, DC; Watkins, JG; Wang, HQ; Lasnier, C; Looby, T; Canik, J; Rudakov, D; Stangeby, PC; Thomas, D REVIEW OF SCIENTIFIC INSTRUMENTS Volume 93 Issue 10 Article Number 103541 DOI10.1063/5.0101719 Published OCT 1 2022 Indexed 2022-12-04</p>
C78	<p>Data-driven surrogate modeling of nPIC ion energy-angle distributions for high-dimensional sensitivity analysis of plasma parameters' uncertainty By: Seleson, Pablo; Mustafa, Mohammad; Curreli, Davide; Hauck, Cory D.; Stoyanov, Miroslav; Bernholdt, David E. COMPUTER PHYSICS COMMUNICATIONS Volume 279 Article Number 108436 DOI10.1016/j.cpc.2022.108436 Published OCT 2022 Indexed 2022-07-21</p>
C77	<p>Radiation sensor based on thin-film CdTe/CdS device structure and its radiation resistance under high-intensity hydrogen plasma By: Meriuts, AV; Kharchenko, MM; Khrypunov, GS; Pudov, AO; Makhlai, VA; Herashchenko, SS; Sokolov, SA; Rybka, AV; Kutny, VE; Kolodiy, IV; Dobrozhan, AI; Kosinov, AV; Khrypunov, MG JOURNAL OF APPLIED PHYSICS Volume 132 Issue 10 Article Number 104501 DOI10.1063/5.0098123 Published SEP 14 2022 Indexed 2022-09-24</p>
C76	<p>Modelling the impact of argon atoms on a tungsten surface By: Shermukhamedov, S; Probst, M EUROPEAN PHYSICAL JOURNAL D Volume 76 Issue 9 Article Number 169 DOI 10.1140/epjd/s10053-022-00495-3 Published SEP 2022 Indexed 2022-09-30</p>
C75	<p>Proposal of a testing procedure to qualify ITER window assemblies and absorbing coatings exposed to high microwave stray radiation By: Gelfusa, M.; Donnini, R.; Vila, R.; Simonetto, A.; Bruschi, A.; Cuce, D.; Lazzari, A.; Maquet, P.; Mirizzi, F.; Murari, A.; et al. FUSION ENGINEERING AND DESIGN Volume 181 Article Number 113209 DOI10.1016/j.fusengdes.2022.113209 Published AUG 2022 Indexed 2022-07-21</p>
C74	<p>Graphical user interface for SDTrimSP to simulate sputtering, ion implantation and the dynamic effects of ion irradiation By: Szabo, PS; Weichselbaum, D; Biber, H; Cupak, C; Mutzke, A; Wilhelm, RA; Aumayr, F NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS Volume 522 Page 47-53 DOI 10.1016/j.nimb.2022.04.008 Published JUL 1 2022 Indexed 2022-06-12</p>
C73	<p>Ionization cross sections in collisions between two hydrogen atoms by a quasi-classical trajectory Monte Carlo model By: Al Atawneh; Tokesi, K PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume 24 Issue 25 Page 15280-15291 DOI 10.1039/d2cp00461e Published JUN 29 2022 Early Access JUN 2022 Indexed 2022-06-23</p>
C72	<p>Analytical model for the sputtering of rough surfaces By: Szabo, PS; Cupak, C; Biber, H; Jaggi, N; Galli, A; Wurz, P; Aumayr, F SURFACES AND INTERFACES Volume 30 Article Number 101924 DOI 10.1016/j.surfin.2022.101924 Published JUN 2022 Indexed 2022-06-11</p>
C71	<p>Liquid lithium wetting and percolation in a porous tungsten/liquid Li plasma facing component (PFC) By: Kapat, A.; Allain, J. P.; Bedoya, F.; Woller, K. B. FUSION ENGINEERING AND DESIGN Volume 178 Article Number 113087 Published MAY 2022</p>
C70	<p>Sputter yields of rough surfaces: Importance of the mean surface inclination angle from nano- to microscopic rough regimes By: Cupak, C.; Szabo, P. S.; Biber, H.; et al. APPLIED SURFACE SCIENCE Volume: 570 Article Number: 151204 Published: DEC 30 2021</p>
C69	<p>Photochromism in Isotopically Labeled Oxygen-Containing Yttrium-Hydride and Deuteride Thin-Film Systems By: Moro, Marcos V.; Aolsteinsson, Sigurbjorn M.; Moldarev, Dmitrii; et al. PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS Volume 16 Issue 4 Article Number 2100508 Published APR 2022</p>

C68	Neutron irradiation effects on mechanical properties of ITER specification tungsten By: Terentyev, D; Chang, CC; Yin, C; Zinovev, A; He, XF TUNGSTEN Volume 3 Issue 4 Page 415-433 DOI10.1007/s42864-021-00105-6 Published DEC 2021 Indexed 2022-11-19
C67	Double pulse laser-induced breakdown spectroscopy for the analysis of plasma-facing components By: Oelmann, J.; Wuest, E.; Sergienko, G.; et al. PHYSICA SCRIPTA Volume: 96 Issue: 12 Article Number: 124064 Published: DEC 2021
C66	Contribution of leading edge shape to a damaging of castellated tungsten targets exposed to repetitive QSPA plasma loads By: Makhelai, V. A.; Garkusha, I. E.; Herashchenko, S. S.; et al. PHYSICA SCRIPTA Volume: 96 Issue: 12 Article Number: 124043 Published: DEC 2021
C65	First post-mortem analysis of deposits collected on ITER-like components in WEST after the C3 and C4 campaigns By: Martin, Celine; Diez, Mathilde; Campos, Andrea; et al. Group Author(s): WEST Team PHYSICA SCRIPTA Volume: 96 Issue: 12 Article Number: 124035 Published: DEC 2021
C64	Erosion and redeposition patterns on entire erosion marker tiles after exposure in the first operation phase of WEST Balden, M; Mayer, M; (...); Hakola, A Dec 2021 PHYSICA SCRIPTA 96 (12)
C63	Influence of surface structure on D retention and erosion behaviours of RAFM steel with D-plasma exposure By: Qiao, L.; Zhang, X. X.; Zhang, H.; et al. PHYSICA SCRIPTA Volume: 96 Issue: 12 Article Number: 125607 Published: DEC 2021
C62	Combination of in-situ ion beam analysis and thermal desorption spectroscopy for studying deuterium implanted in tungsten Kantre, K; Szabo, PS; (...); Primetzhofer, D Dec 2021 PHYSICA SCRIPTA 96 (12)
C61	Effect of Nitrogen on Heat Flux to a Tungsten Target in He Plasma Park, I; Lee, M; (...); Chung, KS Nov 2021 SCIENCE OF ADVANCED MATERIALS 13 (11) , pp.2270-2277
C60	Vapour shielding of liquid-metal CPS-based targets under ELM-like and disruption transient loading By: Garkusha, I. E.; Makhelai, V. A.; Petrov, Yu, V; et al. NUCLEAR FUSION Volume: 61 Issue: 11 Article Number: 116040 Published: NOV 2021
C59	Gross and net erosion balance of plasma-facing materials in full-W tokamaks By: Hakola, A.; Likonen, J.; Lahtinen, A.; et al. Group Author(s): ASDEX Upgrade Team; EUROfusion Mst1 Team; EUROfusion WP PFC Contributors NUCLEAR FUSION Volume: 61 Issue: 11 Article Number: 116006 Published: NOV 2021
C58	Angle-dependent charge exchange and energy loss of slow highly charged ions in freestanding graphene By: Creutzburg, S.; Niggas, A.; Weichselbaum, D.; et al. PHYSICAL REVIEW A Volume: 104 Issue: 4 Article Number: 042806 Published: OCT 11 2021
C57	Combinations of density functionals for accurate molecular properties of Be/W/H compounds By: Chen, L.; Probst, A.; Kaiser, A.; et al. NUCLEAR MATERIALS AND ENERGY Volume: 28 Article Number: 101026 Published: SEP 2021
C56	Multifractal analysis of high-temperature plasma irradiated tungsten surfaces By: Martsepp, Merike; Laas, Tonu; Laas, Katrin; et al. SURFACE TOPOGRAPHY-METROLOGY AND PROPERTIES Volume: 9 Issue: 3 Article Number: 035030 Published: SEP 2021
C55	Electron backscattering coefficients of molybdenum and tungsten based on the Monte Carlo simulations By Yang, LH (Yang, Lihao) Hussain, A (Hussain, Abrar) Mao, SF (Mao, Shifeng) Da, B (Da, Bo) Tokesi, K (Tokesi, Karoly) Ding, ZJ (Ding, Z. J.) JOURNAL OF NUCLEAR MATERIALS Volume: 553 Article Number: 153042 Published: SEP 2021
C54	Modelling the sputtering and reflection from a beryllium surface: atomistic analysis Shermukhamedov, S; Chen, L; (...); Probst, M Aug 2021 NUCLEAR FUSION 61 (8)

C53	<p>Predictive Atomistic Model for Hydrogen Adsorption on Metal Surfaces: Comparison with Low-Energy Ion Beam Analysis on Tungsten</p> <p>Piazza, ZA; Kolasinski, RD; (...); Ferro, Y</p> <p>Jul 29 2021 JOURNAL OF PHYSICAL CHEMISTRY C 125 (29) , pp.16086-16096</p>
C52	<p>Sample test array and recovery (STAR) platform at the National Ignition Facility</p> <p>By: Moore, Nathan W.; Bell, Kate S.; Hilborn, Haley; et al.</p> <p>REVIEW OF SCIENTIFIC INSTRUMENTS Volume: 92 Issue: 5 Article Number: 053539 Published: MAY 1 2021</p>
C51	<p>Detection of hydrogen isotopes in Zircaloy-4 via femtosecond LIBS</p> <p>By: Kautz, Elizabeth J.; Ronnebro, Ewa C. E.; Devaraj, Arun; et al.</p> <p>JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY Volume: 36 Issue: 6 Page: 1217-1227 Published: JUN 1 2021</p>
C50	<p>Anisotropy in the hardness of single crystal tungsten before and after neutron irradiation</p> <p>By: Yin, Chao; Bonny, Giovanni; Terentyev, Dmitry</p> <p>JOURNAL OF NUCLEAR MATERIALS Volume: 546 Article Number: 152759 Published: APR 1 2021</p>
C49	<p>Analyses of deuterium retention in tungsten and graphite first wall materials by laser-induced ablation spectroscopy on EAST</p> <p>By: Oelmann, Jannis; Hu, Zhenhua; Li, Cong; et al.</p> <p>Group Author(s): EAST Team</p> <p>FUSION ENGINEERING AND DESIGN Volume: 162 Article Number: 112108 Published: JAN 2021</p>
C48	<p>Sputtering of the beryllium tungsten alloy Be2W by deuterium atoms: molecular dynamics simulations using machine learned forces</p> <p>By: Chen, L.; Kaiser, A.; Probst, M.; et al.</p> <p>NUCLEAR FUSION Volume: 61 Issue: 1 Article Number: 016031 Published: JAN 2021</p>
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C46	<p>Exploration of Sn70Li30 alloy as possible material for flowing liquid metal plasma facing components</p> <p>By: de Castro, A.; Moynihan, C.; Stemmley, S.; et al.</p> <p>NUCLEAR MATERIALS AND ENERGY Volume: 25 Article Number: 100829 Published: DEC 2020</p>
C45	<p>Lithium dilution in Li-Sn alloys</p> <p>By: Mateus, R.; Costa, M. B.; Alves, L. C.; et al.</p> <p>NUCLEAR MATERIALS AND ENERGY Volume: 25 Article Number: 100783 Published: DEC 2020</p>
C44	<p>Effects of a nitrogen seeded plasma on nanostructured tungsten films having fusion-relevant features</p> <p>By: Uccello, Andrea; Ghezzi, Francesco; Laguardia, Laura; et al.</p> <p>NUCLEAR MATERIALS AND ENERGY Volume: 25 Article Number: 100808 Published: DEC 2020</p>
C43	<p>A review of the LIBS analysis for the plasma-facing components diagnostics</p> <p>By: Maurya, Gulab Singh; Marin-Roldan, Alicia; Veis, Pavel; et al.</p> <p>JOURNAL OF NUCLEAR MATERIALS Volume: 541 Article Number: 152417 Published: DEC 1 2020</p>
C42	<p>Laser-Induced Breakdown Spectroscopy as Diagnostics for Plasma-Wall Interactions Monitoring in Tokamaks</p> <p>By: Gasior, P.</p> <p>Conference: International Conference on Research and Applications of Plasmas (PLASMA) Location: Opole, POLAND Date: JUL 15-19, 2019</p> <p>ACTA PHYSICA POLONICA A Volume: 138 Issue: 4 Special Issue: SI Pages: 601-607 Published: OCT 2020</p>
C41	<p>Material Erosion and Dust Formation during Tungsten Exposure to Hollow-Cathode and Microjet Discharges</p> <p>By: Marascu, Valentina; Stancu, Cristian; Satulu, Veronica; et al.</p> <p>APPLIED SCIENCES-BASEL Volume: 10 Issue: 19 Article Number: 6870 Published: OCT 2020</p>
C40	<p>Trends in vacancy distribution and hardness of high temperature neutron irradiated single crystal tungsten</p> <p>By: Bonny, G.; Konstantinovic, M. J.; Bakaeva, A.; et al.</p> <p>ACTA MATERIALIA Volume: 198 Pages: 1-9 Published: OCT 1 2020</p>
C39	<p>Exposures of bulk W and nanostructured W coatings to medium flux D plasmas</p> <p>By: Sala, M.; Uccello, A.; Dellasega, D.; et al.</p> <p>NUCLEAR MATERIALS AND ENERGY Volume: 24 Article Number: 100779 Published: AUG 2020</p>

C38	<p>Post-mortem analysis of tungsten plasma facing components in tokamaks: Raman microscopy measurements on compact, porous oxide and nitride films and nanoparticles</p> <p>By: Pardanaud, C.; Dellasega, D.; Passoni, M.; et al.</p> <p>NUCLEAR FUSION Volume: 60 Issue: 8 Article Number: 086004 Published: AUG 2020</p>
C37	<p>An ITER Challenge Absolute Surface Temperature Measurements of Low and Varying Emissivity Tungsten Plasma-Facing Components</p> <p>By: Guilhem, D.; Gaspar, J.; Pocheau, C.; et al.</p> <p>IEEE TRANSACTIONS ON PLASMA SCIENCE Volume: 48 Issue: 7 Pages: 2495-2501 Published: JUL 2020</p>
C36	<p>Application of dense plasma focus devices and lasers in the radiation material sciences for the goals of inertial fusion beyond ignition</p> <p>By: Gribkov, V. A.; Borovitskaya, I., V; Demina, E., V; et al.</p> <p>MATTER AND RADIATION AT EXTREMES Volume: 5 Issue: 4 Article Number: 045403 Published: JUL 2020</p>
C35	<p>Electron collisions with BeH₂ below 20 eV</p> <p>By: Sukuba, Ivan; Gorfinkiel, Jimena D.</p> <p>PHYSICAL REVIEW A Volume: 101 Issue: 5 Article Number: 052709 Published: MAY 28 2020</p>
C34	<p>Simulations of Argon plasmas in the linear plasma device GyM with the SOLPS-ITER code</p> <p>By: Sala, M.; Tonello, E.; Uccello, A.; et al.</p> <p>PLASMA PHYSICS AND CONTROLLED FUSION Volume: 62 Issue: 5 Article Number: 055005 Published: MAY 2020</p>
C33	<p>Sputtering of nanostructured tungsten and comparison to modelling with TRI3DYN</p> <p>By: Stadlmayr, R.; Szabo, P. S.; Mayer, D.; et al.</p> <p>JOURNAL OF NUCLEAR MATERIALS Volume: 532 Article Number: UNSP 152019 Published: APR 15 2020</p>
C32	<p>Fracture behavior of tungsten-based composites exposed to steady-state/transient hydrogen plasma</p> <p>By: Li, Y.; Morgan, T. W.; Van Dommelen, J. A. W.; et al.</p> <p>NUCLEAR FUSION Volume: 60 Issue: 4 Article Number: 046029 Published: APR 2020</p>
C31	<p>Response of yttria dispersion strengthened tungsten simultaneously exposed to steady-state and transient hydrogen plasma</p> <p>By: Chen, Z.; Li, Y.; Lian, Y. Y.; et al.</p> <p>NUCLEAR FUSION Volume: 60 Issue: 4 Article Number: 046020 Published: APR 2020</p>
C30	<p>Ion beam analysis of fusion plasma-facing materials and components: facilities and research challenges</p> <p>By: Mayer, M.; Moller, S.; Rubel, M.; et al.</p> <p>NUCLEAR FUSION Volume: 60 Issue: 2 Article Number: 025001 Published: FEB 2020</p>
C29	<p>Vapor shielding of liquid lithium divertor target during steady state and transient events</p> <p>By: Marenkov, E.; Pshenov, A.</p> <p>NUCLEAR FUSION Volume: 60 Issue: 2 Article Number: 026011 Published: FEB 2020</p>
C28	<p>DAMAGING OF PURE TUNGSTEN WITH DIFFERENT MICROSTRUCTURE UNDER SEQUENTIAL QSPA AND LHD PLASMA LOADS</p> <p>By: Herashchenko, S. S.; Byrka, O., V; Makhraj, V. A.; et al.</p> <p>PROBLEMS OF ATOMIC SCIENCE AND TECHNOLOGY Issue: 6 Pages: 78-82 Published: 2020</p>
C27	<p>Efficiency of laser-induced desorption of D from Be/D layers and surface modifications due to LID</p> <p>By: Zlobinski, Mirosław; De Temmerman, G.; Porosnicu, C.; et al.</p> <p>PHYSICA SCRIPTA Volume: T171 Issue: 1 Article Number: 014075 Published: JAN 1 2020</p>
C26	<p>A setup for study of co-deposited films</p> <p>By: Krat, S. A.; Popkov, A. S.; Gasparyan, Y. M.; et al.</p> <p>JOURNAL OF INSTRUMENTATION Volume: 15 Issue: 1 Article Number: P01011 Published: JAN 2020</p>
C25	<p>Performance of DFT functionals for properties of small molecules containing beryllium, tungsten and hydrogen</p> <p>By: Chen, Lei; Suess, Daniel; Sukuba, Ivan; et al.</p> <p>NUCLEAR MATERIALS AND ENERGY Volume: 22 Article Number: UNSP 100731 Published: JAN 2020</p>
C24	<p>Scanning electron microscopy analyses of an ITER plasma-facing unit mockup exposed to extreme ion fluences in Magnum-PSI</p> <p>By: Balden, M.; Elgeti, S.; Morgan, T. W.; et al.</p> <p>PHYSICA SCRIPTA Volume: T171 Issue: 1 Article Number: 014026 Published: JAN 1 2020</p>

C23	<p>Damaging of inclined/misaligned castellated tungsten surfaces exposed to a large number of repetitive QSPA plasma loads</p> <p>By: Makhlai, V. A.; Herashchenko, S. S.; Aksenov, N. N.; et al.</p> <p>PHYSICA SCRIPTA Volume: T171 Issue: 1 Article Number: 014047 Published: JAN 1 2020</p>
C22	<p>Erosion of iron-tungsten model films by deuterium ion irradiation: a benchmark for TRI3DYN</p> <p>By: Stadlmayr, R.; Szabo, P. S.; Mayer, D.; et al.</p> <p>PHYSICA SCRIPTA Volume: T171 Issue: 1 Article Number: 014021 Published: JAN 1 2020</p>
C21	<p>Micro-structuring of tungsten for mitigation of ELM-like fatigue</p> <p>By: Terra, A.; Sergienko, G.; Gago, M.; et al.</p> <p>PHYSICA SCRIPTA Volume: T171 Issue: 1 Article Number: 014045 Published: JAN 1 2020</p>
C20	<p>Comparative study of deuterium retention in irradiated Eurofer and Fe/Cr from a new ion implantation materials facility</p> <p>By: Hollingsworth, A.; Lavrentiev, M. Yu; Watkins, R.; et al.</p> <p>NUCLEAR FUSION Volume: 60 Issue: 1 Article Number: 016024 Published: JAN 2020</p>
C19	<p>The influence of carbon impurities on the formation of loops in tungsten irradiated with self-ions</p> <p>By: Castin, N.; Dubinko, A.; Bonny, G.; et al.</p> <p>JOURNAL OF NUCLEAR MATERIALS Volume: 527 Article Number: UNSP 151808 Published: DEC 15 2019</p>
C18	<p>Surface coverage dependent mechanisms for the absorption and desorption of hydrogen from the W(110) and W(100) surfaces: a density functional theory investigation</p> <p>By: Ajmalghan, M.; Piazza, Z. A.; Hodille, E. A.; et al.</p> <p>NUCLEAR FUSION Volume: 59 Issue: 10 Article Number: 106022 Published: OCT 2019</p>
C17	<p>Diffusivity of hydrogen and properties of point defects in beryllium investigated by DFT</p> <p>By: Ferry, L.; Viot, F.; Ferro, Y.; et al.</p> <p>JOURNAL OF NUCLEAR MATERIALS Volume: 524 Pages: 323-329 Published: OCT 2019</p>
C16	<p>Erosion and fuel retentions of various reduced-activation ferritic martensitic steel grades exposed to deuterium plasma</p> <p>By: Qiao, Li; Zhang, Hanwen; Xu, Chuan; et al.</p> <p>FUSION ENGINEERING AND DESIGN Volume: 143 Pages: 188-195 Published: JUN 2019</p>
C15	<p>Molecular dynamics simulation of beryllium oxide irradiated by deuterium ions: sputtering and reflection</p> <p>By: Hodille, E. A.; Byggmatar, J.; Safi, E.; et al.</p> <p>JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 31 Issue: 18 Article Number: 185001 Published: MAY 8 2019</p>
C14	<p>High-fluence and high-flux performance characteristics of the superconducting Magnum-PSI linear plasma facility</p> <p>By: van Eck, H. J. N.; Akkermans, G. R. A.; van der Westen, S. Alonso; et al.</p> <p>FUSION ENGINEERING AND DESIGN Volume: 142 Pages: 26-32 Published: MAY 2019</p>
C13	<p>Analysis of deposited layers with deuterium and impurity elements on samples from the divertor of JET with ITER-like wall</p> <p>By: Strom, P.; Petersson, P.; Rubel, M.; et al.</p> <p>Group Author(s): JET Contributors</p> <p>JOURNAL OF NUCLEAR MATERIALS Volume: 516 Pages: 202-213 Published: APR 1 2019</p>
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C11	<p>Effect of sequential steady-state and pulsed hydrogen plasma loads on structure of textured tungsten samples</p> <p>By: Herashchenko, S. S.; Girka, O. I.; Surovitskiy, S. V.; et al.</p> <p>NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTION WITH MATERIALS AND ATOMS</p> <p>Volume: 440 Pages: 82-87 Published: FEB 1 2019</p>
C10	<p>Total and partial electron impact ionization cross sections of fusion-relevant diatomic molecules</p> <p>By: Huber, Stefan E.; Mauracher, Andreas; Suess, Daniel; et al.</p> <p>JOURNAL OF CHEMICAL PHYSICS Volume: 150 Issue: 2 Article Number: 024306 Published: JAN 14 2019</p>

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C1	Tungsten oxide thin film bombarded with a low energy He ion beam: evidence for a reduced erosion and W enrichment By: Martin, C.; Hijazi, H.; Addab, Y.; et al. Conference: 16th International Conference on Plasma-Facing Materials and Components for Fusion Applications Location: GERMANY Date: MAY 16-19, 2017 PHYSICA SCRIPTA Volume: T170 Article Number: 014019 Published: DEC 2017				
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C87	2D analysis of sputtered species transport in high-power impulse magnetron sputtering (HiPIMS) discharge By: Kapran, A; Ballage, C; Hubicka, Z; Minea, T JOURNAL OF APPLIED PHYSICS Volume 135 Issue 17 DOI 10.1063/5.0198423 Article Number 173302 Published MAY 7 2024 Indexed 2024-05-23				

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C85	<p>Influence of magnetic field strength on plasma, microstructure, and mechanical properties of Cr thin films deposited by MPPMS and DOMS</p> <p>By: Li, YG; Liu, WY; Cui, L</p> <p>JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A Volume 42 Issue 2 DOI 10.1116/6.0003287 Article Number 023108 Published MAR 2024 Indexed 2024-03-13</p>
C84	<p>Rotating spokes, potential hump and modulated ionization in radio frequency magnetron discharges</p> <p>By: Xu, L; Sun, HM; Eremin, D; Ganta, S; Kaganovich, I; Bera, K; Rauf, S; Wu, XM</p> <p>PLASMA SOURCES SCIENCE & TECHNOLOGY Volume 32 Issue 10 DOI 10.1088/1361-6595/ad01db Article Number 105012 Published OCT 1 2023 Indexed 2023-11-26</p>
C83	<p>Effect of pulse width on deposition of diamond-like carbon on high-power pulsed magnetron sputtering</p> <p>By: Ohta, T; Matsushima, J; Kunitsugu, S; Oda, A; Kousaka, H</p> <p>JAPANESE JOURNAL OF APPLIED PHYSICS Volume 62 Issue SL Supplement L Article Number SL1019 DOI10.35848/1347-4065/acd703 Published SEP 1 2023 Indexed 2023-07-08</p>
C82	<p>Thermodynamic quasi-equilibria in high power magnetron discharges: a generalized Poisson-Boltzmann relation</p> <p>By: Kohn, K; Kruger, D; Eremin, D; Xu, L; Brinkmann, RP</p> <p>PLASMA SOURCES SCIENCE & TECHNOLOGY Volume 32 Issue 5 Article Number 055012 DOI10.1088/1361-6595/acd3a7 Published MAY 1 2023 Indexed 2023-06-17</p>
C81	<p>Physics and instabilities of low-temperature E x B plasmas for spacecraft propulsion and other applications</p> <p>By: Boeuf, JP; Smolyakov, A</p> <p>PHYSICS OF PLASMAS Volume 30 Issue 5 Article Number 050901 DOI10.1063/5.0145536 Published MAY 2023 Indexed 2023-05-21</p>
C80	<p>3D particle-in-cell study of the electron drift instability in a Hall Thruster using unstructured grids</p> <p>By: Villafana, W; Cuenot, B; Vermorel, O</p> <p>PHYSICS OF PLASMAS Volume 30 Issue 3 Article Number 033503 DOI10.1063/5.0133963 Published MAR 2023 Indexed 2023-03-27</p>
C79	<p>Theory and molecular simulations of plasma sputtering, transport and deposition processes</p> <p>By: Brault, Pascal; Thomann, Anne-Lise; Cavarroc, Marjorie</p> <p>EUROPEAN PHYSICAL JOURNAL D Volume 77 Issue 2 Article Number 19 DOI10.1140/epjd/s10053-023-00592-x Published FEB 2023 Indexed 2023-02-28</p>
C78	<p>Theory of gradient drift instabilities in low-temperature, partially magnetised plasmas</p> <p>By: Hara, K; Mansour, AR; Tsikata, S</p> <p>JOURNAL OF PLASMA PHYSICS Volume 88 Issue 4 Article Number 905880408 DOI10.1017/S002237782200068X Published AUG 15 2022 Indexed 2022-08-23</p>
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C76	<p>Plasma structure and electron cross-field transport induced by azimuthal manipulation of the radial magnetic field in a Hall thruster E x B discharge</p> <p>By: Bak, J.; Kawashima, R.; Romanelli, G.; Komurasaki, K.</p> <p>JOURNAL OF APPLIED PHYSICS Volume: 131 Issue: 5 Article Number: 053302 Published: FEB 7 2022</p>
C75	<p>Research Review of the Plasma with Spoke Characteristic for High Power Impulse Magnetron Sputtering</p> <p>By: Li, YG; Liu, WY; Lei, MK</p> <p>CHINA SURFACE ENGINEERING Volume 35 Issue 1 Page 1-9 DOI 10.11933/j.issn.1007-9289.20210424001 Published FEB 2022 Indexed 2022-06-08</p>
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C72	<p>Behavior of high current density pulsed magnetron discharge with a graphite target By: Morel, Erwan; Rozier, Yoann; Ballages, Charles; et al.</p> <p>PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 30 Issue: 12 Article Number: 125001 Published: DEC 2021</p>
C71	<p>Direct evidence of gradient drift instability being the origin of a rotating spoke in a crossed field plasma By Xu, L (Xu, Liang) Eremin, D (Eremin, Denis) Brinkmann, RP (Brinkmann, Ralf Peter)</p> <p>PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 30 Issue: 7 Article Number: 075013 Published: JUL 2021</p>
C70	<p>Restructuring of rotating spokes in response to changes in the radial electric field and the neutral pressure of a cylindrical magnetron plasma By: Sengupta, M.; Smolyakov, A.; Raiteses, Y.</p> <p>JOURNAL OF APPLIED PHYSICS Volume: 129 Issue: 22 Article Number: 223302 Published: JUN 14 2021</p>
C69	<p>Ionized particle transport in reactive HiPIMS discharge: correlation between the energy distribution functions of neutral and ionized atoms By: El Farsy, A.; Boivin, D.; Noel, C.; et al.</p> <p>PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 30 Issue: 6 Article Number: 065016 Published: JUN 2021</p>
C68	<p>On how to measure the probabilities of target atom ionization and target ion back-attraction in high-power impulse magnetron sputtering By: Rudolph, Martin; Hajihoseini, Hamidreza; Raadu, Michael A.; et al.</p> <p>JOURNAL OF APPLIED PHYSICS Volume: 129 Issue: 3 Article Number: 033303 Published: JAN 21 2021</p>
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C66	<p>Physics and technology of magnetron sputtering discharges By: Gudmundsson, J. T.</p> <p>PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 29 Issue: 11 Article Number: 113001 Published: NOV 2020</p>
C65	<p>Magnetron sputtering: determining scaling relations towards real power discharges using 3D particle-in-cell Monte Carlo models By: Tonneau, R.; Pflug, A.; Lucas, S.</p> <p>PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 29 Issue: 11 Article Number: 115007 Published: NOV 2020</p>
C64	<p>Rotating Spokes, Ionization Instability, and Electron Vortices in Partially Magnetized $E \times B$ Plasmas By: Boeuf, Jean-Pierre; Takahashi, Masayuki</p> <p>PHYSICAL REVIEW LETTERS Volume: 124 Issue: 18 Article Number: 185005 Published: MAY 8 2020</p>
C63	<p>Optimization of HiPIMS discharges: The selection of pulse power, pulse length, gas pressure, and magnetic field strength By: Brenning, Nils; Butler, Alexandre; Hajihoseini, Hamidreza; et al.</p> <p>JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A Volume: 38 Issue: 3 Article Number: 033008 Published: MAY 2020</p>
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C61	<p>Spectroscopic investigation on the near-substrate plasma characteristics of chromium HiPIMS in low density discharge mode By: Zuo, Xiao; Zhang, Dong; Chen, Rende; et al.</p> <p>PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 29 Issue: 1 Article Number: 015013 Published: JAN 2020</p>

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C56	Micro instabilities and rotating spokes in the near-anode region of partially magnetized plasmas By: Boeuf, J. P. PHYSICS OF PLASMAS Volume: 26 Issue: 7 Article Number: 072113 Published: JUL 2019
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C53	Rotating spoke instabilities in a wall-less Hall thruster: experiments By: Mazouffre, S.; Grimaud, L.; Tsikata, S.; et al. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 28 Issue: 5 Article Number: 054002 Published: MAY 2019
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C45	Pitfalls in Modeling Walls and Neutrals Physics in Gas Discharges Using Parallel Particle-in-Cell Monte Carlo Collision Algorithms By: Gueroult, Renaud; Fubiani, Gwenael; Garrigues, Laurent FRONTIERS IN PHYSICS Volume: 6 Article Number: 128 Published: NOV 13 2018
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C40	Neutral gas simulation on the influence of rotating spokes on gas rarefaction in high-power impulse magnetron sputtering By: Trieschmann, Jan Conference: 18th Tropical Conference on Plasma Technology (PT) Location: HAWK Univ Appl Sci & Arts, Gottingen, GERMANY Date: FEB 20-22, 2017 Sponsor(s): Fraunhofer Inst Surface Engn & Thin Films IST; Deutsch Gesell Plasmatechnologie e V CONTRIBUTIONS TO PLASMA PHYSICS Volume: 58 Issue: 5 Special Issue: SI Pages: 394-403 Published: JUN 2018
C39	Preface to Special Topic: Modern issues and applications of ExB plasmas By: Boeuf, Jean-Pierre; Smolyakov, Andrei PHYSICS OF PLASMAS Volume: 25 Issue: 6 Article Number: 061001 Published: JUN 2018
C38	Numerical analysis of azimuthal rotating spokes in a crossed-field discharge plasma By: Kawashima, R.; Hara, K.; Komurasaki, K. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 27 Issue: 3 Article Number: 035010 Published: MAR 2018
C37	Interaction of magnetized electrons with a boundary sheath: investigation of a specular reflection model By: Krueger, Dennis; Brinkmann, Ralf Peter PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 26 Issue: 11 Article Number: 115009 Published: NOV 2017
C36	Cathode voltage and discharge current oscillations in HiPIMS By: Klein, P.; Hnilica, J.; Hubicka, Z.; et al. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 26 Issue: 5 Article Number: 055015 Published: MAY 1 2017
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C10	<p>Effects of trace of nitrogen on the helium atmospheric pressure plasma jet interacting with a dielectric substrate By: Ning, Wenjun; Dai, Dong; Zhang, Yuhui; et al. JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 51 Issue: 12 Article Number: 125204 Published: MAR 28 2018</p>
C9	<p>Numerical investigation on the dynamics and evolution mechanisms of multiple-current-pulse behavior in homogeneous helium dielectric-barrier discharges at atmospheric pressure By: Zhang, Yuhui; Ning, Wenjun; Dai, Dong AIP ADVANCES Volume: 8 Issue: 3 Article Number: 035008 Published: MAR 2018</p>
C8	<p>Numerical Investigation of Effect of Driving Voltage Pulse on Low Pressure 90%Ar-10%Cl-2 Dielectric Barrier Discharge By: Barjasteh, Azadeh; Eslami, Esmaeil PLASMA CHEMISTRY AND PLASMA PROCESSING Volume: 38 Issue: 1 Pages: 261-279 Published: JAN 2018</p>
C7	<p>Observations of a helium-air gas-confined barrier discharge operated in diffuse mode By: Wu, Shuqun; Dong, Xi; Mao, Wenhao; et al. PHYSICS OF PLASMAS Volume: 24 Issue: 8 Article Number: 083512 Published: AUG 2017</p>

C6	Transition from diffuse to self-organized discharge in a high frequency dielectric barrier discharge By: Belinger, Antoine; Naude, Nicolas; Gherardi, Nicolas EUROPEAN PHYSICAL JOURNAL-APPLIED PHYSICS Volume: 79 Issue: 1 Article Number: 10802 Published: JUL 2017				
C5	Investigating a two-stage electric space propulsion system: Simulation of plasma dynamics By: Christou, Alex; Jugroot, Manish VACUUM Volume: 141 Pages: 22-31 Published: JUL 2017				
C4	Simulations of the cathode falling characteristics and its influence factors in atmospheric pressure dielectric barrier glow discharge pulse By: Yao Cong-Wei; Ma Heng-Chi; Chang Zheng-Shi; et al. ACTA PHYSICA SINICA Volume: 66 Issue: 2 Article Number: 025203 Published: JAN 20 2017				
C3	Formation of positive ions in hydrocarbon containing dielectric barrier discharge plasmas By: Mihaila, Ilarion; Pohoata, Valentin; Jijie, Roxana; et al. ADVANCES IN SPACE RESEARCH Volume: 58 Issue: 11 Pages: 2416-2423 Published: DEC 1 2016				
C2	Numerical modelling of the effect of dry air traces in a helium parallel plate dielectric barrier discharge By: Lazarou, C.; Belmonte, T.; Chiper, A. S.; et al. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 25 Issue: 5 Article Number: 055023 Published: OCT 2016				
C1	Numerical and experimental study of the dynamics of a μ s helium plasma gun discharge with various amounts of N-2 admixture By: Bourdon, Anne; Darny, Thibault; Pechereau, Francois; et al. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 25 Issue: 3 Article Number: 035002 Published: JUN 2016				
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C55	The dynamics of the electron temperature and density in short-pulse HiPIMS discharge By: Oskirko, VO; Shandrikov, MV; Pavlov, AP; Zakharov, AN; Azhgikhin, MI; Solov'yev, AA Source VACUUM Volume 230 DOI 10.1016/j.vacuum.2024.113672 Article Number 113672 Published DEC 2024 Indexed 2024-10-07				
C54	Effects of pulse time offset between Cr and Zr dual cathodes in closed-magnetic-field unipolar high-power impulse magnetron sputtering By: Lin, YT; Liu, WC; Kuo, CC Source SURFACE & COATINGS TECHNOLOGY Volume 489 DOI 10.1016/j.surfcoat.2024.131106 Article Number 131106 Published AUG 15 2024 Indexed 2024-07-24				
C52	A study of the formation of fuzzy tungsten in a HiPIMS plasma system By: Ali, Z; Bahri, M; Bilton, M; Bradley, JW JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume 57 Issue 17 DOI 10.1088/1361-6463/ad2005 Article Number 175202 Published APR 26 2024 Indexed 2024-02-09				
C51	Temporally resolved measurement of a force induced by a pulsed water-fuelled magnetron sputtering source By: Shimizu, S; Takahashi, K JOURNAL OF PLASMA PHYSICS Volume 90 Issue 2 DOI 10.1017/S0022377824000485 Article Number 975900205 Published APR 25 2024 Indexed 2024-05-01				
C50	Synergistic effect of deposition temperature and substrate bias on structural, mechanical, stability and adhesion of TiN thin film prepared by reactive HiPIMS By: Abegunde, OO; Lahouij, M; Jaghar, N; Larhlimi, H; Makha, M; Alami, J Source CERAMICS INTERNATIONAL Volume 50 Issue 7 Page 10593-10601 Part A DOI 10.1016/j.ceramint.2023.12.371 Published APR 1 2024 Indexed 2024-04-12				
C49	Using a coupled optical and electrical monitoring method to follow the R-HiPIMS TiO2 deposition process drifts By: Boivin, D; Jean-Marie-Désirée, R; Najah, A; Cuynet, S; de Poucques, L PHYSICA SCRIPTA Volume 99 Issue 4 DOI 10.1088/1402-4896/ad3302 Article Number 045606 Published APR 1 2024 Indexed 2024-04-04				

C48	<p>High-energy sputtering for the deposition of a conductive and adherent single molybdenum layer for solar cell applications</p> <p>By: Oubaki, R; Machkih, K; Larhlimi, H; Samih, Y; Alami, J; Makha, M</p> <p>THIN SOLID FILMS Volume 790 DOI 10.1016/j.tsf.2024.140217 Article Number 140217 Published FEB 15 2024 Indexed 2024-02-28</p>
C47	<p>Understanding ion and atom fluxes during high-power impulse magnetron sputtering deposition of NbCx films from a compound target</p> <p>By: Farahani, M; Kozak, T; Pajdarova, AD; Bahr, A; Riedl, H; Zeman, P</p> <p>JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A Volume 41 Issue 6 DOI10.1116/6.0002944 Article Number 063008 Published DEC 2023 Indexed 2023-11-18</p>
C46	<p>Electron-enhanced high power impulse magnetron sputtering with a multilevel high power supply: Application to Ar/Cr plasma discharge</p> <p>By: Zgheib, J; Berthelot, L; Tranchant, J; Ginot, N; Besland, MP; Caillard, A; Minea, T; Rhallabi, A; Jouan, PY</p> <p>JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A Volume 41 Issue 6 DOI10.1116/6.0002857 Article Number 063003 Published DEC 2023 Indexed 2023-10-18</p>
C45	<p>Industrial application potential of high power impulse magnetron sputtering for wear and corrosion protection coatings</p> <p>By: Vetter, J; Shimizu, T; Kurapov, D; Sasaki, T; Mueller, J; Stangier, D; Esselbach, M</p> <p>JOURNAL OF APPLIED PHYSICS Volume 134 Issue 16 DOI 10.1063/5.0159292 Article Number 160701 Published OCT 28 2023 Indexed 2023-12-04</p>
C44	<p>Effect of pulse configuration on the reactive deposition of TiN coatings using HiPIMS</p> <p>By: Larhlimi, H; Makha, M; Alami, J</p> <p>SURFACE & COATINGS TECHNOLOGY Volume 473 DOI 10.1016/j.surfcoat.2023.130024 Article Number 130024 Published NOV 25 2023 Early Access SEP 2023 Indexed 2024-01-13</p>
C43	<p>Optical emission spectroscopy in deep oscillation magnetron sputtering (DOMS) of titanium</p> <p>By: Yokoyama, E; Sanekata, M; Nishimiya, N; Tona, M; Yamamoto, H; Tsukamoto, K; Fuke, K; Ohshimo, K; Misaizu, F</p> <p>JAPANESE JOURNAL OF APPLIED PHYSICS Volume 62 Issue SL Supplement L Article Number SL1008 DOI10.35848/1347-4065/acce42 Published SEP 1 2023 Indexed 2023-05-28</p>
C42	<p>Ion current density on the substrate during short-pulse HiPIMS</p> <p>By: Oskirko, VO (Oskirko, V. O.) [1] ; Kozhevnikov, VY (Kozhevnikov, V. Y.) [1] ; Rabotkin, SV (Rabotkin, S., V) [1] ; Pavlov, AP (Pavlov, A. P.) [1] ; Semenov, VA (Semenov, V. A.) [1] ; Solovyev, AA (Solovyev, A. A.) [1]</p> <p>PLASMA SOURCES SCIENCE & TECHNOLOGY Volume 32 Issue 7 Article Number 075007 DOI10.1088/1361-6595/acdd95 Published JUL 1 2023 Indexed 2023-07-26</p>
C41	<p>A Comparative Investigation on the Microstructure and Thermal Resistance of W-Film Sensor Using dc Magnetron Sputtering and High-Power Pulsed Magnetron Sputtering</p> <p>By: Huan, J; Wu, ZT; Wang, QM; Zhang, SH; Kwon, SH</p> <p>MAGNETOCHEMISTRY Volume 9 Issue 4 Article Number 97 DOI10.3390/magnetochemistry9040097 Published APR 2023 Indexed 2023-05-23</p>
C40	<p>Dynamics of sputtered particles in multipulse HiPIMS discharge</p> <p>By: Hnilica, J; Klein, P; Vasina, P; Snyders, R; Britun, N</p> <p>PLASMA SOURCES SCIENCE & TECHNOLOGY Volume 32 Issue 4 Article Number 045003 DOI10.1088/1361-6595/acc686 Published APR 1 2023 Indexed 2023-04-19</p>
C39	<p>Investigation of the magnetron balancing effect on the ionized flux fraction and deposition rate of sputtered titanium species for the high-power impulse magnetron sputtering pulses of different lengths</p> <p>By: Kapran, Anna; Antunes, Vinicius G.; Hubicka, Zdenek; Ballage, Charles; Minea, Tiberiu</p> <p>JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A Volume 41 Issue 1 Article Number 013003 DOI10.1116/6.0002309 Published JAN 2023 Indexed 2023-01-14</p>
C38	<p>Effect of ion control strateaiies on the deposition rate and properties of copper films in bipolar pulse high power impulse magnetron sputtering</p> <p>By: Bai, XB; Cai, Q; Xie, WH; Zeng, YQ; Zhang, XH</p> <p>JOURNAL OF MATERIALS SCIENCE DOI10.1007/s10853-022-08036-4 Early Access DEC 2022 Indexed 2023-01-08</p>

C37	Enhanced Electrical Properties of Copper Nitride Films Deposited via High Power Impulse Magnetron Sputtering By: Chen, Yin-Hung; Lee, Pei-Ing; Sakalley, Shikha; Wen, Chao-Kuang; Cheng, Wei-Chun; Sun, Hui; Chen, Sheng-Chi NANOMATERIALS Volume 12 Issue 16 Article Number 2814 DOI10.3390/nano12162814 Published AUG 2022 Indexed 2022-09-03
C36	Operating modes and target erosion in high power impulse magnetron sputtering By: Rudolph, M; Brenning, N; Hajihoseini, H; Raadu, MA; Fischer, J; Gudmundsson, JT; Lundin, D JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A Volume 40 Issue 4 Article Number 043005 DOI 10.1116/6.0001919 Published JUL 2022 Indexed 2022-07-05
C35	Tailoring of rhenium oxidation state in ReOx thin films during reactive HiPIMS deposition process and following annealing By: Zubkins, M; Sarakovskis, A; Strods, E; Bikse, L; Polyakov, B; Kuzmin, A; Vibornijs, V; Purans, J MATERIALS CHEMISTRY AND PHYSICS Volume 289 Article Number 126399 DOI 10.1016/j.matchemphys.2022.126399 Published SEP 15 2022 Indexed 2022-07-25
C34	Short-pulse high-power dual magnetron sputtering By: Oskirko, VO; Zakharov, AN; Semenov, VA; Pavlov, AP; Grenadyorov, AS; Rabotkin, SV; Solovyev, AA VACUUM Volume 200 Article Number 111026 DOI10.1016/j.vacuum.2022.111026 Published JUN 2022 Indexed 2022-05-14
C33	HiPIMS pulse shape influence on the deposition of diamond-like carbon films By: Serra, R.; Ferreira, F.; Cavaleiro, A.; Oliveira, J. C. SURFACE & COATINGS TECHNOLOGY Volume 432 Article Number 128059 Published FEB 25 2022
C32	High power impulse magnetron sputtering growth processes for copper nitride thin film and its highly enhanced UV - visible photodetection properties By: Sakalley, Shikha; Saravanan, Adhimoorthy; Cheng, Wei-Chun; Chen, Sheng-Chi; Sun, Hui; Hsu, Cheng-Liang; Huang, Bohr-Ran JOURNAL OF ALLOYS AND COMPOUNDS Volume: 896 Article Number: 162924 Published: MAR 10 2022
C31	Controlling preferential growth of chromium-Nitrogen R-HiPIMS and R-DCMS films by substrate magnetic biasing By: Vargas, S.; Galeano-Osorio, D. S.; Castano, C. E. APPLIED SURFACE SCIENCE Volume: 569 Article Number: 151113 Published: DEC 15 2021
C30	Microstructure of titanium coatings controlled by pulse sequence in multipulse HiPIMS By: Soucek, Pavel; Hnilica, Jaroslav; Klein, Peter; et al. SURFACE & COATINGS TECHNOLOGY Volume: 423 Article Number: 127624 Published: OCT 15 2021
C29	Optimizing the ion diffusion in bipolar-pulse HiPIMS discharge (BP-HiPIMS) via an auxiliary anode By: Han, Mingyue; Luo, Yang; Li, Liuhe; et al. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 30 Issue: 9 Article Number: 095016 Published: SEP 2021
C28	Delayed Discharge Bridging Two Sputtering Modes from Modulated Pulsed Power Magnetron Sputtering (MPPMS) to Deep Oscillation Magnetron Sputtering (DOMS) By: Sanekata, M; Nishida, H; Watabe, T; Nakagomi, Y; Hirai, Y; Nishimiya, N; Tona, M; Yamamoto, H; Hirata, N; Tsukamoto, K; Ohshimo, K; Misaizu, F; Fuke, K PLASMA Volume 4 Issue 2 Page 239-251 DOI10.3390/plasma4020016 Published JUN 2021 Indexed 2021-06-01
C27	Dependence of Optical Emission Spectra on Argon Gas Pressure during Modulated Pulsed Power Magnetron Sputtering (MPPMS) By: Sanekata, M; Nishida, H; Nakagomi, Y; Hirai, Y; Nishimiya, N; Tona, M; Hirata, N; Yamamoto, H; Tsukamoto, K; Ohshimo, K; Misaizu, F; Fuke, KYKZ PLASMA Volume 4 Issue 2 Article Number 18 DOI10.3390/plasma4020018 Published JUN 2021 Indexed 2021-06-01
C26	Experimental verification of deposition rate increase, with maintained high ionized flux fraction, by shortening the HiPIMS pulse By: Shimizu, T.; Zanaska, M.; Villoan, R. P.; et al. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 30 Issue: 4 Article Number: 045006 Published: APR 2021

C25	HiPIMS optimization by using mixed high-power and low-power pulsing By: Brenning, Nils; Hajihoseini, Hamidreza; Rudolph, Martin; et al. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 30 Issue: 1 Article Number: 015015 Published: JAN 2021
C24	Physics and technology of magnetron sputtering discharges By: Gudmundsson, J. T. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 29 Issue: 11 Article Number: 113001 Published: NOV 2020
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C21	Optimization of HiPIMS discharges: The selection of pulse power, pulse length, gas pressure, and magnetic field strength By: Brenning, Nils; Butler, Alexandre; Hajihoseini, Hamidreza; et al. JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A Volume: 38 Issue: 3 Article Number: 033008 Published: MAY 2020
C20	Dual mode of deep oscillation magnetron sputtering By: Oskirko, V. O.; Zakharov, A. N.; Pavlov, A. P.; et al. Conference: 21st International Conference on Surface Modification of Materials by Ion Beams (SMMIB) Location: Tomsk, RUSSIA Date: AUG 25-30, 2019 SURFACE & COATINGS TECHNOLOGY Volume: 387 Article Number: 125559 Published: APR 15 2020
C19	Understanding the ion acceleration mechanism in bipolar HiPIMS: the role of the double layer structure developed in the after-glow plasma By: Tiron, Vasile; Velicu, Ioana-Laura PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 29 Issue: 1 Article Number: 015003 Published: JAN 2020
C18	Overcoming the insulating materials limitation in HiPIMS: Ion-assisted deposition of DLC coatings using bipolar HiPIMS By: Thou, V; Ursu, E-L; Cristea, D.; et al. Conference: 11th International Conference on Materials Science and Engineering (BraMat) Location: Brasov, ROMANIA Date: MAR 13-16, 2019 APPLIED SURFACE SCIENCE Volume: 494 Pages: 871-879 Published: NOV 15 2019
C17	PHOTOCATALYTIC ACTIVITY OF TiO ₂ FILMS DEPOSITED BY REACTIVE MULTI-PULSE HiPIMS AT DIFFERENT SUBSTRATE TEMPERATURE VALUES By: Besleaga, A.; Demeter, A.; Rusu, G. B.; et al. ROMANIAN REPORTS IN PHYSICS Volume: 71 Issue: 2 Article Number: 505 Published: 2019
C16	Influence of ion-to-neutral flux ratio on the mechanical and tribological properties of TiN coatings deposited by HiPIMS By: Tiron, Vasile; Velicu, Ioana-Laura; Cristea, Daniel; et al. SURFACE & COATINGS TECHNOLOGY Volume: 352 Pages: 690-698 Published: OCT 25 2018
C15	On three different ways to quantify the degree of ionization in sputtering magnetrons By: Butler, Alexandre; Brenning, Nils; Raadu, Michael A.; et al. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 27 Issue: 10 Article Number: 105005 Published: OCT 2018
C14	High power impulse magnetron sputtering and its applications By: Yuan, Yan; Yang, Lizhen; Liu, Zhongwei; et al. PLASMA SCIENCE & TECHNOLOGY Volume: 20 Issue: 6 Article Number: UNSP 065501 Published: JUN 2018
C13	Deposition rate enhancement in HiPIMS through the control of magnetic field and pulse configuration By: Tiron, Vasile; Velicu, Ioana-Laura; Mihaila, Ilarion; et al. SURFACE & COATINGS TECHNOLOGY Volume: 337 Pages: 484-491 Published: MAR 15 2018

C12	<p>TiO₂ 2D NANOPATTERNS OBTAINED BY HIGH POWER IMPULSE MAGNETRON SPUTTERING DEPOSITIONS WITH COLLOIDAL MASKS</p> <p>By: Demeter, Alexandra; Tiron, Vasile; Sirghi, Lucel</p> <p>ROMANIAN REPORTS IN PHYSICS Volume: 70 Issue: 4 Article Number: 515 Published: 2018</p>				
C11	<p>Enhanced properties of tungsten thin films deposited with a novel HiPIMS approach</p> <p>By: Velicu, Ioana-Laura; Tiron, Vasile; Porosnicu, Corneliu; et al.</p> <p>Conference: 11th International Conference on Physics of Advanced Materials (ICPAM) / 2nd Autumn School on Physics of Advanced Materials (PAMS) / 4th International Festival of NanoArt / 2nd Art and Science Photography Exhibition and Workshop Location: Cluj Napoca, ROMANIA Date: SEP 08-14, 2016</p> <p>Sponsor(s): Romanian Minist Educ & Res; Alexandru Ioan Cuza Univ Iasi; Babes Bolyai Univ Cluj Napoca; Natl Inst Laser Plasma & Radiat Phys</p> <p>APPLIED SURFACE SCIENCE Volume: 424 Special Issue: SI Pages: 397-406 Part: 3 Published: DEC 1 2017</p>				
C10	<p>Copper thin films deposited under different power delivery modes and magnetron configurations: A comparative study</p> <p>By: Velicu, Ioana-Laura; Tiron, Vasile; Rusu, Bogdan-George; et al.</p> <p>SURFACE & COATINGS TECHNOLOGY Volume: 327 Pages: 192-199 Published: OCT 25 2017</p>				
C9	<p>Visible-light photocatalytic activity of TiO_xNy thin films obtained by reactive multi-pulse High Power Impulse Magnetron Sputtering</p> <p>By: Demeter, Alexandra; Samoila, Florentina; Tiron, Vasile; et al.</p> <p>Conference: European-Materials-Research-Society (E-MRS) Spring Meeting / Symposium I on Functional Oxyntiride Films for Sustainable Development Location: Lille, FRANCE Date: MAY 02-03, 2015-2016</p> <p>Sponsor(s): European Mat Res Soc</p> <p>SURFACE & COATINGS TECHNOLOGY Volume: 324 Pages: 614-619 Published: SEP 15 2017</p>				
C8	<p>Tungsten nitride coatings obtained by HiPIMS as plasma facing materials for fusion applications</p> <p>By: Tiron, Vasile; Velicu, Ioana-Laura; Porosnicu, Corneliu; et al.</p> <p>APPLIED SURFACE SCIENCE Volume: 416 Pages: 878-884 Published: SEP 15 2017</p>				
C7	<p>Ti atom and Ti ion number density evolution in standard and multi-pulse HiPIMS</p> <p>By: Fekete, M.; Hnilica, J.; Vitelaru, C.; et al.</p> <p>JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 50 Issue: 36 Article Number: 365202 Published: SEP 13 2017</p>				
C6	<p>OPERATING THE HIPIMS DISCHARGE WITH ULTRA-SHORT PULSES: A SOLUTION TO OVERCOME THE DEPOSITION RATE LIMITATION</p> <p>By: Velicu, I. -L.; Mihaila, I.; Popa, G.</p> <p>ROMANIAN REPORTS IN PHYSICS Volume: 69 Issue: 3 Article Number: 411 Published: 2017</p>				
C5	<p>Mass spectrometry analyzes to highlight differences between short and long HiPIMS discharges</p> <p>By: Ferrec, Axel; Keraudy, Julien; Jouan, Pierre-Yves</p> <p>APPLIED SURFACE SCIENCE Volume: 390 Pages: 497-505 Published: DEC 30 2016</p>				
C4	<p>Comparative Study of Cu Films Prepared by DC, High-Power Pulsed and Burst Magnetron Sputtering</p> <p>By: Solovyev, A. A.; Oskirko, V. O.; Semenov, V. A.; et al.</p> <p>JOURNAL OF ELECTRONIC MATERIALS Volume: 45 Issue: 8 Pages: 4052-4060 Published: AUG 2016</p>				
C3	<p>Reactive multi-pulse HiPIMS deposition of oxygen-deficient TiO_x thin films</p> <p>By: Tiron, V.; Velicu, I. -L.; Dobromir, M.; et al.</p> <p>THIN SOLID FILMS Volume: 603 Pages: 255-261 Published: MAR 31 2016</p>				
C2	<p>Optimization of deposition rate in HiPIMS by controlling the peak target current</p> <p>By: Tiron, V.; Velicu, I-L; Vasilovici, O.; et al.</p> <p>JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 48 Issue: 49 Article Number: 495204 Published: DEC 16 2015</p>				
C1	<p>Tuning the band gap and nitrogen content of ZnO_xNy thin films deposited by reactive HiPIMS</p> <p>By: Tiron, Vasile; Sirghi, Lucel</p> <p>SURFACE & COATINGS TECHNOLOGY Volume: 282 Pages: 103-106 Published: NOV 25 2015</p>				
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C48	<p>Origin and impact of ion heating in the cathode sheath of direct-current argon discharges at moderate pressures By: Mun, JH; Muraglia, M; Agullo, O; Arnas, C; Couüdel, L Source PHYSICS OF PLASMAS Volume 31 Issue 7 DOI 10.1063/5.0211714 Article Number 073906 Published JUL 2024 Indexed 2024-08-09</p>
C47	<p>Overall aspect for designing magnetron sputtering plasma sources and their applications in the deposition of ITO films By: Nisha; Sahu, BB AIP ADVANCES Volume 14 Issue 5 DOI 10.1063/6.0003496 Article Number 050702 Published MAY 1 2024 Indexed 2024-05-28</p>
C46	<p>Combining the hybrid mimetic mixed method with the Scharfetter-Gummel scheme for magnetised transport in plasmas By: Cheng, HM; Boonkkamp, JT; Janssen, J; Mihailova, D; van Dijk, J Source PARTIAL DIFFERENTIAL EQUATIONS AND APPLICATIONS Volume 4 Issue 6 DOI 10.1007/s42985-023-00265-9 Article Number 47 Published DEC 2023 Indexed 2024-08-01</p>
C45	<p>Study of Plasma Particle Distribution and Electron Temperature in Cylindrical Magnetron Sputtering By: Fu, YW; Ji, P; He, MS; Huang, PJ; Huang, GB; Huang, WH PLASMA CHEMISTRY AND PLASMA PROCESSING DOI 10.1007/s11090-023-10425-9 Early Access NOV 2023 Indexed 2023-12-03</p>
C44	<p>State estimation of the dynamic behavior of plasma properties in a Hall effect thruster discharge By: Troyetsky, DE; Greve, CM; Tsikata, S; Hara, K JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume 56 Issue 44 DOI10.1088/1361-6463/ace7da Article Number 444001 Published NOV 2 2023 Indexed 2023-08-19</p>
C43	<p>A fluid model of pulsed direct current planar magnetron discharge By: Tran, SBQ; Leong, FY; Hariharaputran, R; Le, DV SCIENTIFIC REPORTS Volume 13 Issue 1 DOI10.1038/s41598-023-36231-z Published JUN 3 2023 Indexed 2023-06-29</p>
C42	<p>High-efficient particle-in-cell/Monte Carlo model for complex solution domain and simulation of anode layer ion source By: Cui, SH; Wei, Z; Jian, H; Li, XT; Chen, QH; Guo, YX; Chao, Y; Wu, ZC; Ma, ZY; Fu, JY; Tian, XB; Zhu, JH; Wu, ZZ ACTA PHYSICA SINICA Volume 72 Issue 8 Article Number 085202 DOI10.7498/aps.72.20222394 Published APR 20 2023 Indexed 2023-06-03</p>
C41	<p>Numerical framework for multi-scale modeling planar DC magnetron sputtering By: Tran, SBQ (Tran, Si Bui Quang) ; Leong, FY (Leong, Fong Yew) ; Hariharaputran, R (Hariharaputran, Ramanarayan) ; Ding, WJ (Ding, Wenjun) ; Lai, PY (Lai, Po -Yen) ; Le, DV (Le, Duc Vinh) VACUUM Volume 213 Article Number 112097 DOI10.1016/j.vacuum.2023.112097 Published JUL 2023 Early Access APR 2023 Indexed 2023-05-28</p>
C40	<p>Particle-in-Cell Simulations for the Improvement of the Target Erosion Uniformity by the Permanent Magnet Configuration of DC Magnetron Sputtering Systems By: Jo, YH; Cheon, C; Park, H; Lee, HJ COATINGS Volume 13 Issue 4 Article Number 749 DOI10.3390/coatings13040749 Published APR 2023 Indexed 2023-05-23</p>
C39	<p>Theory and molecular simulations of plasma sputtering, transport and deposition processes By: Brault, Pascal; Thomann, Anne-Lise; Cavarroc, Marjorie EUROPEAN PHYSICAL JOURNAL D Volume 77 Issue 2 Article Number 19 DOI10.1140/epjd/s10053-023-00592-x Published FEB 2023 Indexed 2023-02-28</p>
C38	<p>High-precision modeling of dynamic etching in high-power magnetron sputtering By: Cui, SH; Chen, QH; Guo, YX; Chen, L; Jin, Z; Li, XT; Yang, C; Wu, ZC; Su, XY; Ma, ZY; ...More JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume 55 Issue 32 Article Number 325203 DOI 10.1088/1361-6463/ac717b Published AUG 11 2022 Indexed 2022-06-02</p>

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C30	<p>Modeling of plasma processing reactors: review and perspective</p> <p>By: Rauf, S; Bera, K; Kenney, J; Kothnur, P</p> <p>JOURNAL OF MICRO-NANOLITHOGRAPHY MEMS AND MOEMS Volume 22 Issue 4 DOI 10.1117/1.JMM.22.4.041503 Published OCT 1 2023 Indexed 2024-02-25</p>
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C28	<p>Thermodynamic quasi-equilibria in high power magnetron discharges: a generalized Poisson-Boltzmann relation</p> <p>By: Kohn, K; Kruger, D; Eremin, D; Xu, L; Brinkmann, RP</p> <p>PLASMA SOURCES SCIENCE & TECHNOLOGY Volume 32 Issue 5 Article Number 055012 DOI10.1088/1361-6595/acd3a7 Published MAY 1 2023 Indexed 2023-06-17</p>
C27	<p>Particle-based simulation of atom and ion transport in HiPIMS: effect of the plasma potential distribution on the ionized flux fraction</p> <p>By: Kozak, T</p> <p>PLASMA SOURCES SCIENCE & TECHNOLOGY Volume 32 Issue 3 Article Number 035007 DOI10.1088/1361-6595/acc549 Published MAR 1 2023 Indexed 2023-04-22</p>
C26	<p>Understanding of deposition mechanism of vanadium on LiF with large mismatch by facing target sputtering (FTS)</p> <p>By: Song, XL; Zheng, L; Tu, R; Ji, BF; Li, J; Zhang, S</p> <p>APPLIED SURFACE SCIENCE Volume 618 Article Number 156672 DOI10.1016/j.apsusc.2023.156672 Published MAY 1 2023 Early Access FEB 2023 Indexed 2023-03-15</p>
C25	<p>Theory and molecular simulations of plasma sputtering, transport and deposition processes</p> <p>By: Brault, Pascal; Thomann, Anne-Lise; Cavarroc, Marjorie</p> <p>EUROPEAN PHYSICAL JOURNAL D Volume 77 Issue 2 Article Number 19 DOI10.1140/epjd/s10053-023-00592-x Published FEB 2023 Indexed 2023-02-28</p>
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C23	<p>Dynamic features of the electron drift and electron properties in a HiPIMS discharge</p> <p>By: Dubois, T; Tsikata, S; Minea, T</p> <p>PLASMA SOURCES SCIENCE & TECHNOLOGY Volume 31 Issue 11 Article Number 115018 DOI10.1088/1361-6595/ac9c2b Published NOV 1 2022 Indexed 2022-12-09</p>
C22	<p>Application of positive pulse to extract ions from HiPIMS ionization region</p> <p>By: Li, LH; Gu, JB; Xu, Y; Han, MY; Bilek, MMM</p> <p>VACUUM Volume 204 Article Number 111383 DOI10.1016/j.vacuum.2022.111383 Published OCT 2022 Indexed 2022-11-15</p>

C21	<p>Formations of anode double layer and ion beam in bipolar-pulse HiPIMS (BP-HiPIMS)</p> <p>By: Han, MY; Luo, Y; Li, H; Tang, L; Li, DD; Gu, JB; Li, LH; Xu, Y; Luo, SD</p> <p>PLASMA SOURCES SCIENCE & TECHNOLOGY Volume 31 Issue 10 Article Number 105014 DOI10.1088/1361-6595/ac9752 Published OCT 1 2022 Indexed 2022-11-09</p>
C20	<p>Adjustment of high-energy ion flux in BP-HiPIMS via pulsed coil magnetic field: plasma dynamics and film deposition</p> <p>By: Luo, Y; Han, MY; Su, YK; Li, H; Li, DD; Tang, L; Deng, DC; Gu, JB; Yan, X; Xu, Y</p> <p>PLASMA SOURCES SCIENCE & TECHNOLOGY Volume 31 Issue 9 Article Number 095015 DOI10.1088/1361-6595/ac907f Published SEP 1 2022 Indexed 2022-10-14</p>
C19	<p>Study on discharge characteristics of anode layer ion source based on PIC-MCC simulation</p> <p>By: Gui, BH; Yang, LMC; Zhou, H; Luo, SL; Xu, J; Ma, ZJ; Zhang, YS</p> <p>VACUUM Volume 200 Article Number 111065 DOI 10.1016/j.vacuum.2022.111065 Published JUN 2022 Indexed 2022-05-22</p>
C18	<p>Effect of geometric position on the film properties for a complex-shaped substrate in HiPIMS discharge: Experiment and simulation</p> <p>By: Li Hua; Luo Yang; Han Mingyue; Tang Ling; Gu Jiabin; Li Guodong; Deng Dachen; Liu Hongtao; Huang Kai; Li Liuhe</p> <p>SURFACE & COATINGS TECHNOLOGY Volume 434 Article Number 128196 Published MAR 25 2022</p>
C17	<p>Artificial Neural Networks to Predict Sheet Resistance of Indium-Doped Zinc Oxide Thin Films Deposited via Plasma Deposition</p> <p>By: Salimian, Ali; Aminishahsavarani, Arjang; Upadhyaya, Hari</p> <p>COATINGS Volume: 12 Issue: 2 Article Number: 225 Published: FEB 2022</p>
C16	<p>Transition from ballistic to thermalized transport of metal-sputtered species in a DC magnetron</p> <p>By: Revel, Adrien; Farsy, Abderzak El; de Poucques, Ludovic; et al.</p> <p>PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 30 Issue: 12 Article Number: 125005 Published: DEC 2021</p>
C15	<p>Plasma flux and energy enhancement in BP-HiPIMS discharge via auxiliary anode and solenoidal coil</p> <p>By: Han, Mingyue; Luo, Yang; Tang, Ling; et al.</p> <p>PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 30 Issue: 11 Article Number: 115002 Published: NOV 2021</p>
C14	<p>Optimizing the ion diffusion in bipolar-pulse HiPIMS discharge (BP-HiPIMS) via an auxiliary anode</p> <p>Han, MY; Luo, Y; (...); Luo, SD</p> <p>Sep 2021 PLASMA SOURCES SCIENCE & TECHNOLOGY 30 (9)</p>
C13	<p>A high-power impulse magnetron sputtering global model for argon plasma-chromium target interactions</p> <p>By: Zgheib, Joelle; Jouan, Pierre Yves; Rhallabi, Ahmed</p> <p>JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A Volume: 39 Issue: 4 Article Number: 043004 Published: JUL 2021</p>
C12	<p>Ionized particle transport in reactive HiPIMS discharge: correlation between the energy distribution functions of neutral and ionized atoms</p> <p>By: El Farsy, A.; Boivin, D.; Noel, C.; et al.</p> <p>PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 30 Issue: 6 Article Number: 065016 Published: JUN 2021</p>
C11	<p>Structure of DC magnetron sputtering discharge at various gas pressures: a two-dimensional particle-in-cell Monte Carlo collision study</p> <p>By: Ryabinkin, A. N.; Serov, A. O.; Pal, A. F.; et al.</p> <p>PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 30 Issue: 5 Article Number: 055009 Published: MAY 2021</p>
C10	<p>On the electron energy distribution function in the high power impulse magnetron sputtering discharge</p> <p>By: Rudolph, Martin; Revel, Adrien; Lundin, Daniel; et al.</p> <p>PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 30 Issue: 4 Article Number: 045011 Published: APR 2021</p>
C9	<p>Auxiliary capacitor to enhance oscillation in circuit and reduce current onset delay in HiPIMS discharge: Theory, experiment and simulation</p> <p>By: Han, Mingyue; Luo, Yang; Li, Hua; et al.</p> <p>SURFACE & COATINGS TECHNOLOGY Volume: 405 Article Number: 126518 Published: JAN 15 2021</p>

C8	Comparison of 1D and 2D particle-in-cell simulations for DC magnetron sputtering discharges By: Zheng, Bocong; Fu, Yangyang; Wang, Keliang; et al. PHYSICS OF PLASMAS Volume: 28 Issue: 1 Article Number: 014504 Published: JAN 2021				
C7	Resolution dependence of magnetosheath waves in global hybrid-Vlasov simulations Associated Data By: Dubart, Maxime; Ganse, Urs; Osmane, Adnane; et al. ANNALES GEOPHYSICAE Volume: 38 Issue: 6 Pages: 1283-1298 Published: DEC 21 2020				
C6	Effects of the dynamic cathode sheath on electron transport at the initial period of HiPIMS pulse studied by Langmuir probe measurements and 2D PIC-MCC simulation By: Han, Mingyue; Luo, Yang; Li, Hua; et al. Conference: 15th International Conference on Plasma Based Ion Implantation and Deposition (PBII and D) Location: Shenzhen, PEOPLES R CHINA Date: DEC 19-22, 2019 SURFACE & COATINGS TECHNOLOGY Volume: 403 Article Number: 126371 Published: DEC 15 2020				
C5	Physics and technology of magnetron sputtering discharges By: Gudmundsson, J. T. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 29 Issue: 11 Article Number: 113001 Published: NOV 2020				
C4	Revisiting particle dynamics in HiPIMS discharges. I. General effects By: Hnilica, Jaroslav; Klein, Peter; Vasina, Petr; et al. JOURNAL OF APPLIED PHYSICS Volume: 128 Issue: 4 Article Number: 043303 Published: JUL 28 2020				
C3	A comparison between kinetic theory and particle-in-cell simulations of anomalous electron transport in E x B plasma discharges By: Charoy, T.; Lafleur, T.; Tavant, A.; et al. PHYSICS OF PLASMAS Volume: 27 Issue: 6 Article Number: 063510 Published: JUN 2020				
C2	The experimental approach into the influence of external inductance on the discharge characteristic of HiPIMS By: Ghasemi, Saeed; Seyfi, Pourya; Farhadizadeh, Alireza; et al. JOURNAL OF THEORETICAL AND APPLIED PHYSICS Volume: 13 Issue: 4 Pages: 289-297 Published: DEC 2019				
C1	Time-resolved electron properties of a HiPIMS argon discharge via incoherent Thomson scattering By: Tsikata, Sedina; Vincent, Benjamin; Minea, Tiberiu; et al. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 28 Issue: 3 Article Number: 03LT02 Published: MAR 2019				
8	J. Adamek, M. Kocan, R. Panek, J. P. Gunn, E. Martinez, J. Stöckel, C. Ionita, G. Popa, C. Costin, J. Brotankova, R. Schrittwieser, and G. Van Oost, "Simultaneous Measurements of Ion Temperature by Segmented Tunnel and Katsumata Probe", Contributions to Plasma Physics 48(5-7) (2008), pp. 395-399	12	8.50	21	2.47
C21	An extensive analysis of SOL properties in high-δ plasmas in ASDEX Upgrade By: Redl, A; Eich, T; Vianello, N; Adamek, J; Bernert, M; Birkenmeier, G; Brida, D; David, P; Faitsch, M; Fischer, R; Grenfell, G; Ochoukov, R; Rohde, V; Tal, B; Dreval, M; Group Author EUROfusion Tokamak Exploitation Team Source NUCLEAR FUSION Volume 64 Issue 8 DOI 10.1088/1741-4326/ad5457 Article Number 086064 Published AUG 1 2024 Indexed 2024-07-26				
C20	High-heat flux ball-pen probe head in ASDEX-Upgrade By: Grenfell, G.; Adamek, J.; Komm, M.; et al. REVIEW OF SCIENTIFIC INSTRUMENTS Volume: 93 Issue: 2 Article Number: 023507 Published: FEB 1 2022				
C19	Ion temperature measurements in the tokamak scrape-off layer with high temporal resolution By: Adamek, J.; Cipciar, D.; Devitre, A.; et al. Group Author(s): COMPASS team NUCLEAR FUSION Volume: 61 Issue: 3 Article Number: 036023 Published: MAR 2021				
C18	Plasma potential probes for hot plasmas By: Ionita, Codrina; Schneider, Bernd Sebastian; Costea, Stefan; et al. EUROPEAN PHYSICAL JOURNAL D Volume: 73 Issue: 4 Article Number: 73 Published: APR 2019				

C17	<p>A review of direct experimental measurements of detachment By: Boedo, J.; McLean, A. G.; Rudakov, D. L.; et al. PLASMA PHYSICS AND CONTROLLED FUSION Volume: 60 Issue: 4 Article Number: 044008 Published: APR 2018</p>
C16	<p>A modified Katsumata probe-Ion sensitive probe for measurement in non-magnetized plasmas By: Cada, M.; Hubicka, Z.; Adamek, P.; et al. REVIEW OF SCIENTIFIC INSTRUMENTS Volume: 86 Issue: 7 Article Number: 073510 Published: JUL 2015</p>
C15	<p>Comparative measurements of plasma potential with ball-pen and Langmuir probe in low-temperature magnetized plasma By: Zanaska, M.; Adamek, J.; Peterka, M.; et al. PHYSICS OF PLASMAS Volume: 22 Issue: 3 Article Number: 033516 Published: MAR 2015</p>
C14	<p>BALL-PEN PROBE DIAGNOSTICS OF A WEAKLY MAGNETIZED DISCHARGE PLASMA COLUMN By: Salamon, Lino; Ilovic, Gabrijela; Kovacic, Jernej Edited by: Jencic, I Conference: 24th International Conference on Nuclear Energy for New Europe (NENE) Location: Portoroz, SLOVENIA Date: SEP 14-17, 2015 Sponsor(s): Gen Energia; Westinghouse; NEK; Elmont; gen i; Numip; APOs; Inst Nucl Technol; sfa; SiPRO Inzeniring; EIMV; Jedrski Pool GIZ; Kostak; QTECHNA; European Nucl Soc; GNS; DAHER NCS; ENCONET d o o; AREVA; ELES; Agencia Arao; Container; LKB; Thermoelektrarna Brestanica 24TH INTERNATIONAL CONFERENCE NUCLEAR ENERGY FOR NEW EUROPE, (NENE 2015) Published: 2015</p>
C13	<p>Radial convection of finite ion temperature, high amplitude plasma blobs By: Wiesenberger, M.; Madsen, J.; Kendl, A. PHYSICS OF PLASMAS Volume: 21 Issue: 9 Article Number: 092301 Published: SEP 2014</p>
C12	<p>Space-charge limits of ion sensitive probes By: Brunner, D.; LaBombard, B.; Ochoukov, R.; et al. PLASMA PHYSICS AND CONTROLLED FUSION Volume: 55 Issue: 12 Article Number: 125004 Part: 1-2 Published: DEC 2013</p>
C11	<p>An assessment of ion temperature measurements in the boundary of the Alcator C-Mod tokamak and implications for ion fluid heat flux limiters By: Brunner, D.; LaBombard, B.; Churchill, R. M.; et al. PLASMA PHYSICS AND CONTROLLED FUSION Volume: 55 Issue: 9 Article Number: 095010 Published: SEP 2013</p>
C10	<p>Full-F gyrofluid model By: Madsen, Jens PHYSICS OF PLASMAS Volume: 20 Issue: 7 Article Number: 072301 Published: JUL 2013</p>
C9	<p>Intermittent transport across the scrape-off layer: latest results from ASDEX Upgrade By: Kocan, M.; Mueller, H. W.; Nold, B.; et al. Group Author(s): ASDEX Upgrade Team NUCLEAR FUSION Volume: 53 Issue: 7 Article Number: 073047 Published: JUL 2013</p>
C8	<p>Scanning ion sensitive probe for plasma profile measurements in the boundary of the Alcator C-Mod tokamak By: Brunner, D.; LaBombard, B.; Ochoukov, R.; et al. REVIEW OF SCIENTIFIC INSTRUMENTS Volume: 84 Issue: 5 Article Number: 053507 Published: MAY 2013</p>
C7	<p>Application of the Ball-Pen Probe in Two Low-Temperature Magnetised Plasma Devices and in Torsatron TJ-K By: Adamek, J.; Peterka, M.; Gyergyek, T.; et al. CONTRIBUTIONS TO PLASMA PHYSICS Volume: 53 Issue: 1 Special Issue: SI Pages: 39-44 Published: JAN 2013</p>
C6	<p>Profiles and Fluctuations in Edge and SOL Turbulence By: Naulin, V.; Xu, G.; Vianello, N.; et al. CONTRIBUTIONS TO PLASMA PHYSICS Volume: 52 Issue: 5-6 Special Issue: SI Pages: 391-400 Published: JUN 2012</p>

C5	<p>Diagnostics of magnetized low temperature plasma by ball-pen probe By: Adamek, Jiri; Peterka, Matej; Gyergyek, Tomaz; et al. Conference: International Conference on Research and Applications of Plasmas (PLASMA) Location: Warsaw, POLAND Date: SEP 12-16, 2011 Sponsor(s): Polish Acad Sci, Comm Phys; Andrzej Soltan Inst Nucl Studies (IPJ); Inst Plasma Phys & Laser Microfus (IPPLM); Natl Ctr Nucl Res (NCBJ) NUKLEONIKA Volume: 57 Issue: 2 Pages: 297-300 Published: 2012</p>				
C4	<p>The influence of finite Larmor radius effects on the radial interchange motions of plasma filaments By: Madsen, Jens; Garcia, Odd E.; Larsen, Jeppe Staerk; et al. PHYSICS OF PLASMAS Volume: 18 Issue: 11 Article Number: 112504 Published: NOV 2011</p>				
C3	<p>Measurements of ion energies in the tokamak plasma boundary By: Kocan, M.; Gunn, J. P.; Carpentier-Chouchana, S.; et al. Group Author(s): ASDEX Upgrade Tore Supra Teams Conference: 19th International Conference on Plasma-Surface Interactions in Controlled Fusion Devices (PSI) Location: Univ Calif, Gen Atom, San Diego, CA Date: MAY 24-28, 2010 Sponsor(s): Lawrence Livermore Natl Lab JOURNAL OF NUCLEAR MATERIALS Volume: 415 Issue: 1 Supplement: S Pages: S1133-S1138 Published: AUG 1 2011</p>				
C2	<p>Transport of electrons in the tunnel of an ion sensitive probe By: Komm, M.; Adamek, J.; Dejarnac, R.; et al. Conference: Laser and Plasma Accelerators Workshop Location: Kardamyli, GREECE Date: JUN 22-26, 2009 PLASMA PHYSICS AND CONTROLLED FUSION Volume: 53 Issue: 1 Special Issue: SI Article Number: 015005 Published: JAN 2011</p>				
C1	<p>Comparison of scrape-off layer profiles in outboard-versus inboard-limited plasmas in Tore Supra By: Kocan, M.; Gunn, J. P. PLASMA PHYSICS AND CONTROLLED FUSION Volume: 52 Issue: 4 Article Number: 045010 Published: APR 2010</p>				
9	<p>R. Schrittwieser, C. Ionita, J. Adamek, J. Stockel, J. Brotankova, E. Martines, G. Popa, C. Costin, L. van de Peppel, and G. van Oost, "Direct measurements of the plasma potential by katsumata-type probes", Czechoslovak Journal of Physics, Vol. 56 (2006), Suppl. B, pp. B145–B150</p>	10	7.50	14	1.87
C14	<p>Plasma potential probes for hot plasmas By: Ionita, Codrina; Schneider, Bernd Sebastian; Costea, Stefan; et al. EUROPEAN PHYSICAL JOURNAL D Volume: 73 Issue: 4 Article Number: 73 Published: APR 2019</p>				
C13	<p>Improved understanding of the ball-pen probe through particle-in-cell simulations By: Murphy-Sugrue, S.; Harrison, J.; Walkden, N. R.; et al. PLASMA PHYSICS AND CONTROLLED FUSION Volume: 59 Issue: 5 Article Number: 055007 Published: MAY 2017</p>				
C12	<p>Advanced probe edge diagnostics for fusion devices By: Van Oost, G. Edited by: Kukushkin, A; Kukushkin, A; Baronova, E; et al. Conference: 9th International Conference on Modern Techniques of Plasma Diagnostics and their Application Location: Natl Res Nucl Univ MEPhI, Moscow, RUSSIA Date: NOV 05-07, 2014 IX INTERNATIONAL CONFERENCE ON MODERN TECHNIQUES OF PLASMA DIAGNOSTICS AND THEIR APPLICATION Book Series: Journal of Physics Conference Series Volume: 666 Article Number: 012001 Published: 2016</p>				
C11	<p>Comparative measurements of plasma potential with ball-pen and Langmuir probe in low-temperature magnetized plasma By: Zanaska, M.; Adamek, J.; Peterka, M.; et al. PHYSICS OF PLASMAS Volume: 22 Issue: 3 Article Number: 033516 Published: MAR 2015</p>				
C10	<p>Profile measurements in the plasma edge of mega amp spherical tokamak using a ball pen probe By: Walkden, N. R.; Adamek, J.; Allan, S.; et al. REVIEW OF SCIENTIFIC INSTRUMENTS Volume: 86 Issue: 2 Article Number: 023510 Published: FEB 2015</p>				
C9	<p>Space-charge limits of ion sensitive probes By: Brunner, D.; LaBombard, B.; Ochoukov, R.; et al. PLASMA PHYSICS AND CONTROLLED FUSION Volume: 55 Issue: 12 Article Number: 125004 Part: 1-2 Published: DEC 2013</p>				

C8	Scanning ion sensitive probe for plasma profile measurements in the boundary of the Alcator C-Mod tokamak By: Brunner, D.; LaBombard, B.; Ochoukov, R.; et al. REVIEW OF SCIENTIFIC INSTRUMENTS Volume: 84 Issue: 5 Article Number: 053507 Published: MAY 2013				
C7	Design and validation of the ball-pen probe for measurements in a low-temperature magnetized plasma By: Bousselin, G.; Cavalier, J.; Pautex, J. F.; et al. REVIEW OF SCIENTIFIC INSTRUMENTS Volume: 84 Issue: 1 Article Number: 013505 Published: JAN 2013				
C6	ADVANCED PROBES FOR BOUNDARY PLASMA DIAGNOSIS IN FUSION DEVICES By: Van Oost, Guido FUSION SCIENCE AND TECHNOLOGY Volume: 61 Issue: 2T Pages: 365-375 Published: FEB 2012				
C5	Simulation of a Planar Emissive Probe in a Mid-Sized Tokamak Plasma By: Kovacic, J.; Gyergyek, T. CONTRIBUTIONS TO PLASMA PHYSICS Volume: 51 Issue: 10 Pages: 962-970 Published: DEC 2011				
C4	ADVANCED PROBES FOR BOUNDARY PLASMA DIAGNOSIS IN FUSION DEVICES By: Van Oost, Guido Conference: 9th Carolus Magnus Summer School on Plasma and Fusions Energy Physics Location: Belgium, GERMANY Date: AUG 31-SEP 11, 2009 FUSION SCIENCE AND TECHNOLOGY Volume: 57 Issue: 2T Pages: 401-412 Published: FEB 2010				
C3	Direct measurements of the plasma potential in ELMy H-mode plasma with ball-pen probes on ASDEX Upgrade tokamak By: Adamek, J.; Rohde, V.; Mueller, H. W.; et al. Group Author(s): ASDEX Upgrade Team Conference: 18th International Conference on Plasma-Surface Interactions in Controlled Fusion Devices Location: Toledo, SPAIN Date: MAY 26-30, 2008 Sponsor(s): Spanish Natl Fus Lab; Spanish Minist Sci & Innovat JOURNAL OF NUCLEAR MATERIALS Volume: 390-91 Pages: 1114-1117 Published: JUN 15 2009				
C2	MEASUREMENTS OF PLASMA POTENTIAL AND ELECTRON TEMPERATURE BY BALL-PEN PROBES IN RFX-MOD By: Brotankova, J.; Adamek, J.; Martinez, E.; et al. PROBLEMS OF ATOMIC SCIENCE AND TECHNOLOGY Issue: 1 Pages: 16-18 Published: 2009				
C1	Advanced probe edge diagnostics for fusion devices By: Van Oost, Guido Conference: 8th Carolus Magnus Summer School on Plasma and Fusion Energy Physics Location: Bad Honnef, GERMANY Date: SEP 03-14, 2007 Sponsor(s): Trilateral Euregio Cluster TEC; EURATOM Assoc; FOM-Inst Plasma Phys Rijnhuizen; Lab Plasma Phys; Ecole Royale Militaire-Koninklijke Mil Sch FUSION SCIENCE AND TECHNOLOGY Volume: 53 Issue: 2T Pages: 387-397 Published: FEB 2008				
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C12	Overall aspect for designing magnetron sputtering plasma sources and their applications in the deposition of ITO films By: Nisha; Sahu, BB AIP ADVANCES Volume 14 Issue 5 DOI 10.1063/6.0003496 Article Number 050702 Published MAY 1 2024 Indexed 2024-05-28				
C11	Particle-in-Cell Simulations for the Improvement of the Target Erosion Uniformity by the Permanent Magnet Configuration of DC Magnetron Sputtering Systems By: Jo, YH; Cheon, C; Park, H; Lee, HJ COATINGS Volume 13 Issue 4 Article Number 749 DOI10.3390/coatings13040749 Published APR 2023 Indexed 2023-05-23				
C10	Physics and technology of magnetron sputtering discharges By: Gudmundsson, J. T. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 29 Issue: 11 Article Number: 113001 Published: NOV 2020				

C9	Numerical modeling of the electrical properties plasma argon in a RF magnetron sputtering and with Einstein's relation of electron diffusivity By: Ballah, Z.; Khelfaoui, F. JOURNAL OF KING SAUD UNIVERSITY SCIENCE Volume: 32 Issue: 1 Pages: 620-627 Published: JAN 2020				
C8	Influence of cold hollow cathode geometry on the radial characteristics of downstream magnetized plasma column By: Bhuva, M. P.; Karkari, S. K.; Kumar, Sunil PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 28 Issue: 11 Published: NOV 2019				
C7	On three different ways to quantify the degree of ionization in sputtering magnetrons By: Butler, Alexandre; Brenning, Nils; Raadu, Michael A.; et al. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 27 Issue: 10 Article Number: 105005 Published: OCT 2018				
C6	Optimization of deposition rate in HiPIMS by controlling the peak target current By: Tiron, V.; Velicu, I-L; Vasilovici, O.; et al. JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 48 Issue: 49 Article Number: 495204 Published: DEC 16 2015				
C5	Comprehensive computer model for magnetron sputtering. II. Charged particle transport By: Jimenez, Francisco J.; Dew, Steven K.; Field, David J. JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A Volume: 32 Issue: 6 Article Number: 061301 Published: NOV 2014				
C4	Gas rarefaction and the time evolution of long high-power impulse magnetron sputtering pulses By: Huo, Chunqing; Raadu, Michael A.; Lundin, Daniel; et al. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 21 Issue: 4 Article Number: 045004 Published: AUG 2012				
C3	High power impulse magnetron sputtering discharge By: Gudmundsson, J. T.; Brenning, N.; Lundin, D.; et al. JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A Volume: 30 Issue: 3 Article Number: 030801 Published: MAY 2012				
C2	Magnetic control of breakdown: Toward energy-efficient hollow-cathode magnetron discharges By: Baranov, O.; Romanov, M.; Kumar, S.; et al. JOURNAL OF APPLIED PHYSICS Volume: 109 Issue: 6 Article Number: 063304 Published: MAR 15 2011				
C1	Low-pressure planar magnetron discharge for surface deposition and nanofabrication By: Baranov, Oleg; Romanov, Maxim; Wolter, Matthias; et al. PHYSICS OF PLASMAS Volume: 17 Issue: 5 Article Number: 053509 Published: MAY 2010				
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C11	Inducing thermionic emission from lanthanum hexaboride probes in Magnum-PSI By: Van den Berg-Stolp, J.; Classen, I. G. J.; van der Meiden, H. J.; et al. NUCLEAR MATERIALS AND ENERGY Volume: 29 Article Number: 101097 Published: DEC 2021				
C10	Combined high fluence and high cycle number transient loading of ITER-like monoblocks in Magnum-PSI By: Morgan, T. W.; Li, Y.; Balden, M.; et al. NUCLEAR FUSION Volume: 61 Issue: 11 Article Number: 116045 Published: NOV 2021				
C9	LIBS applicability for investigation of re-deposition and fuel retention in tungsten coatings exposed to pure and nitrogen-mixed deuterium plasmas of Magnum-PSI Jogi, I; Paris, P; (...); van der Meiden, HJ Nov 2021 PHYSICA SCRIPTA 96 (11)				
C8	Thermalized collisional pre-sheath detected in dense plasma with coherent and incoherent Thomson scattering van den Berg-Stolp, J; van der Meiden, HJ; (...); van Rooij, GJ Sep 2021 NUCLEAR FUSION 61 (9)				

C7	In-situ LIBS and NRA deuterium retention study in porous W-O and compact W coatings loaded by Magnum-PSI By Paris, P (Paris, Peeter) Jogi, I (Jogi, Indrek) Piip, K (Piip, Kaarel) Passoni, M (Passoni, Matteo) Dellasega, D (Dellasega, David) Grigore, E (Grigore, Eduard) Arnoldbik, WM (Arnoldbik, Wim M.) van der Meiden, H (van der Meiden, Hennie) FUSION ENGINEERING AND DESIGN Volume: 168 Article Number: 112403 Published: JUL 2021				
C6	LIBS study of ITER relevant tungsten-oxygen coatings exposed to deuterium plasma in Magnum-PSI By: Jogi, I.; Paris, P.; Laan, M.; et al. JOURNAL OF NUCLEAR MATERIALS Volume: 544 Article Number: 152660 Published: FEB 2021				
C5	Impact of impurity seeding on the electron energy distribution function in the COMPASS divertor region By: Dimitrova, M.; Popov, Tsv K.; Kovacic, J.; et al. Group Author(s): COMPASS Team; EUROfusion MST1 Team PLASMA PHYSICS AND CONTROLLED FUSION Volume: 62 Issue: 12 Article Number: 125015 Published: DEC 2020				
C4	ITER monoblock performance under lifetime loading conditions in Magnum-PSI By: Morgan, T. W.; Balden, M.; Schwarz-Selinger, T.; et al. PHYSICA SCRIPTA Volume: T171 Issue: 1 Article Number: 014065 Published: JAN 1 2020				
C3	Power deposition on misaligned castellated tungsten blocks in the Magnum-PSI and Pilot-PSI linear devices By: Morgan, T. W.; van den Berg, M. A.; De Temmerman, G.; et al. NUCLEAR FUSION Volume: 57 Issue: 12 Article Number: 126025 Published: DEC 2017				
C2	Oscillatory vapour shielding of liquid metal walls in nuclear fusion devices By: van Eden, G. G.; Kvon, V.; van de Sanden, M. C. M.; et al. NATURE COMMUNICATIONS Volume: 8 Article Number: 192 Published: AUG 4 2017				
C1	Physics conclusions in support of ITER W divertor monoblock shaping By: Pitts, R. A.; Bardin, S.; Bazylev, B.; et al. NUCLEAR MATERIALS AND ENERGY Volume: 12 Special Issue: SI Pages: 60-74 Published: AUG 2017				
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C10	Different Techniques for Investigation of Plasma Diffusion Coefficient in IR-T1 Tokamak By: Ghoranneviss, Mahmood; Meshkani, Sakineh; Lafouti, Mansoureh Book Group Author(s): AIP Conference: 9th International Conference on Plasma Science and Applications (ICPSA) Location: Univ Teknologi Malaysia, MALAYSIA Date: NOV 28-30, 2016 Sponsor(s): Asian African Assoc Plasma Training; Newton Ungku Omar Fund; British Council; Govt Grp High Technol, Malaysian Ind; Inst Plasma Focus Studies; Univ Tenaga Nas; Nilai Univ; Univ York; Kementerian Pendidikan Tinggi INTERNATIONAL CONFERENCE ON PLASMA SCIENCE AND APPLICATIONS (ICPSA2016) Book Series: AIP Conference Proceedings Volume: 1824 Article Number: 020003 Published: 2017				
C9	Comparative measurements of plasma potential with ball-pen and Langmuir probe in low-temperature magnetized plasma By: Zanaska, M.; Adamek, J.; Peterka, M.; et al. PHYSICS OF PLASMAS Volume: 22 Issue: 3 Article Number: 033516 Published: MAR 2015				
C8	Plasma diagnostics for understanding the plasma-surface interaction in HiPIMS discharges: a review By: Britun, Nikolay; Minea, Tiberiu; Konstantinidis, Stephanos; et al. JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 47 Issue: 22 Special Issue: SI Article Number: 224001 Published: JUN 4 2014				
C7	Scanning ion sensitive probe for plasma profile measurements in the boundary of the Alcator C-Mod tokamak By: Brunner, D.; LaBombard, B.; Ochoukov, R.; et al. REVIEW OF SCIENTIFIC INSTRUMENTS Volume: 84 Issue: 5 Article Number: 053507 Published: MAY 2013				

C6	Application of the Ball-Pen Probe in Two Low-Temperature Magnetised Plasma Devices and in Torsatron TJ-K By: Adamek, J.; Peterka, M.; Gyergyek, T.; et al. CONTRIBUTIONS TO PLASMA PHYSICS Volume: 53 Issue: 1 Special Issue: SI Pages: 39-44 Published: JAN 2013				
C5	Diagnostics of magnetized low temperature plasma by ball-pen probe By: Adamek, Jiri; Peterka, Matej; Gyergyek, Tomaz; et al. Conference: International Conference on Research and Applications of Plasmas (PLASMA) Location: Warsaw, POLAND Date: SEP 12-16, 2011 Sponsor(s): Polish Acad Sci, Comm Phys; Andrzej Soltan Inst Nucl Studies (IPJ); Inst Plasma Phys & Laser Microfus (IPPLM); Natl Ctr Nucl Res (NCBJ) NUKLEONIKA Volume: 57 Issue: 2 Pages: 297-300 Published: 2012				
C4	ADVANCED PROBES FOR BOUNDARY PLASMA DIAGNOSIS IN FUSION DEVICES By: Van Oost, Guido Conference: 9th Carolus Magnus Summer School on Plasma and Fusions Energy Physics Location: Belgium, GERMANY Date: AUG 31-SEP 11, 2009 FUSION SCIENCE AND TECHNOLOGY Volume: 57 Issue: 2T Pages: 401-412 Published: FEB 2010				
C3	Simulations of anomalous ion diffusion in experimentally measured turbulent potential By: Seidl, J.; Krlin, L.; Panek, R.; et al. EUROPEAN PHYSICAL JOURNAL D Volume: 54 Issue: 2 Pages: 399-407 Published: AUG 2009				
C2	Direct measurements of the plasma potential in ELMy H-mode plasma with ball-pen probes on ASDEX Upgrade tokamak By: Adamek, J.; Rohde, V.; Mueller, H. W.; et al. Group Author(s): ASDEX Upgrade Team Conference: 18th International Conference on Plasma-Surface Interactions in Controlled Fusion Devices Location: Toledo, SPAIN Date: MAY 26-30, 2008 Sponsor(s): Spanish Natl Fus Lab; Spanish Minist Sci & Innovat JOURNAL OF NUCLEAR MATERIALS Volume: 390-91 Pages: 1114-1117 Published: JUN 15 2009				
C1	Advanced probe edge diagnostics for fusion devices By: Van Oost, Guido Conference: 8th Carolus Magnus Summer School on Plasma and Fusion Energy Physics Location: Bad Honnef, GERMANY Date: SEP 03-14, 2007 Sponsor(s): Trilateral Euregio Cluster TEC; EURATOM Assoc; FOM-Inst Plasma Phys Rijnhuizen; Lab Plasma Phys; Ecole Royale Militaire-Koninklijke Mil Sch FUSION SCIENCE AND TECHNOLOGY Volume: 53 Issue: 2T Pages: 387-397 Published: FEB 2008				
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C7	Role of magnetic field and bias configuration on HiPIMS deposition of W films By: Vavassori, D; Mirani, F; Gatti, F; Dellasega, D; Passoni, M SURFACE & COATINGS TECHNOLOGY Volume 458 Article Number 129343 DOI10.1016/j.surfcoat.2023.129343 Published APR 15 2023 Indexed 2023-04-26				
C6	The role of defects, deuterium, and surface morphology on the optical response of beryllium By: Minissale, M.; De Canonville, C. Louis; Pardanaud, C.; Butoi, B.; Bisson, R.; Gallais, L. NUCLEAR FUSION Volume: 62 Issue: 5 Article Number: 056012 Published: MAY 1 2022				
C5	Room Temperature Deposition of Nanocrystalline SiC Thin Films by DCMS/HiPIMS Co-Sputtering Technique By: Tiron, Vasile; Ursu, Elena-Laura; Cristea, Daniel; Bulai, Georgiana; Stoian, George; Matei, Teodora; Velicu, Ioana-Laura NANOMATERIALS Volume: 12 Issue: 3 Article Number: 512 Published: FEB 2022				
C4	D retention and material defects probed using Raman microscopy in JET limiter samples and beryllium-based synthesized samples By: Pardanaud, C.; Kumar, M.; Roubin, P.; et al. Group Author(s): EUROfusion WP Pfc Contributors1; JET Contributors PHYSICA SCRIPTA Volume: 96 Issue: 12 Article Number: 124031 Published: DEC 2021				

C3	Ultra-Short Pulse HiPIMS: A Strategy to Suppress Arcing during Reactive Deposition of SiO ₂ Thin Films with Enhanced Mechanical and Optical Properties By: Tiron, Vasile; Velicu, Ioana-Laura; Matei, Teodora; et al. COATINGS Volume: 10 Issue: 7 Article Number: 633 Published: JUL 2020				
C2	Effect of composition and surface characteristics on fuel retention in beryllium-containing co-deposited layers By: Hakola, Antti; Heinola, Kalle; Mizohata, Kenichiro; et al. Group Author(s): EUROfusion WP PFC Contributors PHYSICA SCRIPTA Volume: T171 Issue: 1 Article Number: 014038 Published: JAN 1 2020				
C1	Atomic spectrometry update: review of advances in the analysis of metals, chemicals and materials By: Carter, Simon; Clough, Robert; Fisher, Andy; et al. JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY Volume: 34 Issue: 11 Pages: 2159-2216 Published: NOV 1 2019				
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C5	Deposition rate enhancement in HiPIMS through the control of magnetic field and pulse configuration By: Tiron, Vasile; Velicu, Ioana-Laura; Mihaila, Ilarion; et al. SURFACE & COATINGS TECHNOLOGY Volume: 337 Pages: 484-491 Published: MAR 15 2018				
C4	Effect of interelectrode distance on dc magnetron current-pressure characteristics By: Mankelevich, Yu A.; Pal, A. F.; Ryabinkin, A. N.; et al. Conference: 32nd International Conference on Interaction of Intense Energy Fluxes with Matter (ELBRUS) Location: Kabardino Balkarian State Univ, Nalchik, RUSSIA Date: MAR 01-06, 2017 Sponsor(s): Russian Acad Sci; Russian Fdn Basic Res XXXII INTERNATIONAL CONFERENCE ON INTERACTION OF INTENSE ENERGY FLUXES WITH MATTER (ELBRUS 2017) Book Series: Journal of Physics Conference Series Volume: 946 Article Number: UNSP 012150 Published: 2018				
C3	Ion-irradiation induced clustering in W-Re-Ta, W-Re and W-Ta alloys: An atom probe tomography and nanoindentation study By: Xu, Alan; Armstrong, David E. J.; Beck, Christian; et al. ACTA MATERIALIA Volume: 124 Pages: 71-78 Published: FEB 1 2017				
C2	Current-pressure dependencies of dc magnetron discharge in inert gases By: Serov, A. O.; Mankelevich, Yu A.; Pal, A. F.; et al. Book Group Author(s): IOP Conference: 31st International Conference on Equations of State for Matter (ELBRUS) Location: Kabardino Balkarian State Univ Elbrus, Educ Sci Base, RUSSIA Date: MAR 01-06, 2016 Sponsor(s): Russian Fdn Basic Res; Russian Acad Sci XXXI INTERNATIONAL CONFERENCE ON EQUATIONS OF STATE FOR MATTER (ELBRUS 2016) Book Series: Journal of Physics Conference Series Volume: 774 Article Number: UNSP 012150 Published: 2016				

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C8	Tuning chemical composition and structural properties of bismuth ferrite based thin films by reactive bipolar HiPIMS By: Tiron, V; Jijie, R; Matei, T; Cimpoesu, N; Bulai, G Source CERAMICS INTERNATIONAL Volume 50 Issue 22 Page 46663-46672 Part B DOI 10.1016/j.ceramint.2024.09.018 Published NOV 15 2024 Indexed 2024-11-03				
C7	Synergistic Effect of He for the Fabrication of Ne and Ar Gas-Charged Silicon Thin Films as Solid Targets for Spectroscopic Studies By: Fernandez, A; Godinho, V; Avila, J; de Haro, MCJ; Hufschmidt, D; López-Viejobueno, J; Almanza-Vergara, GE; Ferrer, FJ; Colaux, JL; Lucas, S; Asensio, MC NANOMATERIALS Volume 14 Issue 8 DOI 10.3390/nano14080727 Article Number 727 Published APR 2024 Indexed 2024-05-11				
C6	DFT based kinetic Monte Carlo study of metal surface Growth: Comparison of a restricted and an unrestricted diffusion model By: García-García, S; Ortiz-González, AS; Amaya-Roncancio, S; Arellano-Ramirez, ID; Felix, ND; Gimenez, MC; Torres-Ceron, DA; Restrepo-Parra, E COMPUTATIONAL MATERIALS SCIENCE Volume 231 DOI10.1016/j.commatsci.2023.112546 Article Number 112546 Published JAN 5 2024 Early Access OCT 2023 Indexed 2023-11-06				
C5	Structural, mechanical and tribological properties of WCTiN coatings produced by HiPIMS By: Sanches, J; Ferreira, F; Fernandes, F; Cavaleiro, A; Serra, R PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART B-JOURNAL OF ENGINEERING MANUFACTURE DOI10.1177/09544054231174976 Early Access MAY 2023 Indexed 2023-06-20				
C4	Tribological behavior of WC/WCN/CNx coatings deposited by high power impulse magnetron sputtering By: Flores-Cova, L (Flores-Cova, L.) ; Broitman, E (Broitman, E.) ; Jimenez, O (Jimenez, O.) ; Flores-Martinez, M (Flores-Martinez, M.) JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A Volume 41 Issue 3 Article Number 033105 DOI10.1116/6.0002421 Published MAY 2023 Indexed 2023-05-28				
C3	Deuterium Retention in Mixed Layers with Application in Fusion Technology By: Dinca, P; Staicu, C; Porosnicu, C; Butoi, B; Pompilian, OG; Banici, AM; Baiasu, F; Burducea, I; Lungu, CP COATINGS Volume 12 Issue 7 Article Number 951 DOI10.3390/coatings12070951 Published JUL 2022 Indexed 2022-08-03				
C2	Efficient Removal of Methylene Blue and Ciprofloxacin from Aqueous Solution Using Flower-like, Nanostructured ZnO Coating under UV Irradiation By: Tiron, V; Ciolan, MA; Bulai, G; Mihalache, G; Lipsa, FD; Jijie, R NANOMATERIALS Volume 12 Issue 13 Article Number 2193 DOI 10.3390/nano12132193 Published JUL 2022 Indexed 2022-07-19				
C1	Effect of Pulsing Configuration and Magnetic Balance Degree on Mechanical Properties of CrN Coatings Deposited by Bipolar-HiPIMS onto Floating Substrate By: Tiron, V; Ciolan, MA; Bulai, G; Cristea, D; Velicu, IL COATINGS Volume: 11 Issue: 12 Article Number: 1526 Published: DEC 2021				
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C6	Combined high fluence and high cycle number transient loading of ITER-like monoblocks in Magnum-PSI By: Morgan, T. W.; Li, Y.; Balden, M.; et al. NUCLEAR FUSION Volume: 61 Issue: 11 Article Number: 116045 Published: NOV 2021				
C5	2D measurements of plasma electron density using coherence imaging with a pixelated phase mask By: Allcock, J. S.; Silburn, S. A.; Sharples, R. M.; et al. REVIEW OF SCIENTIFIC INSTRUMENTS Volume: 92 Issue: 7 Article Number: 073506 Published: JUL 1 2021				
C4	ITER monoblock performance under lifetime loading conditions in Magnum-PSI By: Morgan, T. W.; Balden, M.; Schwarz-Selinger, T.; et al. PHYSICA SCRIPTA Volume: T171 Issue: 1 Article Number: 014065 Published: JAN 1 2020				
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C2	Power deposition on misaligned castellated tungsten blocks in the Magnum-PSI and Pilot-PSI linear devices By: Morgan, T. W.; van den Berg, M. A.; De Temmerman, G.; et al. NUCLEAR FUSION Volume: 57 Issue: 12 Article Number: 126025 Published: DEC 2017				
C1	Investigation of arcing on fiber-formed nanostructured tungsten by pulsed plasma during steady state plasma irradiation By: Yajima, M.; Ohno, N.; Kajita, S.; et al. FUSION ENGINEERING AND DESIGN Volume: 112 Pages: 156-161 Published: NOV 15 2016				
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C6	A hybrid plasma model for Cr thin film deposition by deep oscillation magnetron sputtering By: Gao, JY; Ferreira, F; Lei, MK JOURNAL OF APPLIED PHYSICS Volume 135 Issue 3 DOI 10.1063/5.0179553 Article Number 033301 Published JAN 21 2024 Indexed 2024-04-20				
C5	Theory and molecular simulations of plasma sputtering, transport and deposition processes By: Brault, Pascal; Thomann, Anne-Lise; Cavarroc, Marjorie EUROPEAN PHYSICAL JOURNAL D Volume 77 Issue 2 Article Number 19 DOI10.1140/epjd/s10053-023-00592-x Published FEB 2023 Indexed 2023-02-28				
C4	The influence of oxygen concentration on the hollow cathode discharge in He/O2 mixed gas Buy: Shoujie He, Lifan Zhao, Jing Ha, Weili Fan and Qing Li PHYSICA SCRIPTA Volume 98 Number 1 Article Number 015615 Published 26 December 2022 DOI 10.1088/1402-4896/acab91				
C3	Simulation of hollow cathode discharge in oxygen By: Zhao Li-Fen; Ha Jing; Wang Fei-Fan; Li Qing; He Shou-Jie ACTA PHYSICA SINICA Volume 71 Issue 2 Article Number 025201 Published JAN 20 2022				
C2	Comparison of 1D and 2D particle-in-cell simulations for DC magnetron sputtering discharges By: Zheng, Bocong; Fu, Yangyang; Wang, Keliang; et al. PHYSICS OF PLASMAS Volume: 28 Issue: 1 Article Number: 014504 Published: JAN 2021				
C1	Parametric computational study of sheaths in multicomponent Ar/O-2 plasma By: Hromadka, J.; Ibehej, T.; Hrach, R. Conference: 7th International Workshop and Summer School on Plasma Physics (IWSSPP) Location: Kiten, BULGARIA Date: JUN 26-JUL 02, 2016 Sponsor(s): St Kliment Ohridsky Univ Sofia; PLASMER Fdn 7TH INTERNATIONAL WORKSHOP AND SUMMER SCHOOL ON PLASMA PHYSICS (IWSSPP'16) Book Series: Journal of Physics Conference Series Volume: 982 Article Number: UNSP 012008 Published: 2018				
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C5	Influence of applied magnetic field in an air-breathing microwave plasma cathode By: Tisaev, M; Karadag, B; Fabris, AL JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume 56 Issue 46 DOI10.1088/1361-6463/acefe2 Article Number 465203 Published NOV 16 2023 Indexed 2023-09-02				
C4	Suppression of Secondary Electron Emissions on the Graphene-Coated Polyimide Materials Prepared by Chemical Vapor Deposition By: Qi, X; Ma, YZ; Liu, SS; Nie, XY; Zhang, T; Wu, Y; Peng, WP; Hu, GM COATINGS Volume 13 Issue 10 DOI10.3390/coatings13101805 Article Number 1805 Published OCT 2023 Indexed 2023-11-11				
C3	Simulation of the statistical and formative time delay of Townsend-mechanism-governed breakdown in argon at low pressure Aleksandar P. Jovanović, Marjan N. Stankov, Vidosav Lj. Marković, Suzana N. Stamenković CONTRIBUTIONS TO PLASMA PHYSICS First published: 09 February 2023 https://doi.org/10.1002/ctpp.202200161				
C2	Suppression of secondary electron emission on oxygen-free copper surface of reduced graphene oxide coatings prepared by electrophoretic deposition By: Zhang, HF; Ge, Y; Pan, P; Du, YH; Fu, H; Yan, MJ; Li, P; Long, HM; Zhang, CZ; Cai, J; Hao, JJ APPLIED SURFACE SCIENCE Volume 603 Article Number 154490 DOI10.1016/j.apsusc.2022.154490 Published NOV 30 2022 Indexed 2022-09-08				
C1	A Small Peak in the Swarm-LP Plasma Density Data at the Dayside Dip Equator By: Song, H; Park, J; Buchert, S; Jin, YQ; Chao, CK; Lee, J; Yi, Y JOURNAL OF GEOPHYSICAL RESEARCH-SPACE PHYSICS Volume 127 Issue 7 Article Number e2022JA030319 DOI 10.1029/2022JA030319 Published JUL 2022 Indexed 2022-07-17				
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C5	OPERATING THE HIPIMS DISCHARGE WITH ULTRA-SHORT PULSES: A SOLUTION TO OVERCOME THE DEPOSITION RATE LIMITATION By: Velicu, I. -L.; Mihaila, I.; Popa, G. ROMANIAN REPORTS IN PHYSICS Volume: 69 Issue: 3 Article Number: 411 Published: 2017				
C4	Friction at single-asperity contacts between hydrogen-free diamond-like carbon thin film surfaces By: Sirghi, L.; Tiron, V.; Dobromir, M. DIAMOND AND RELATED MATERIALS Volume: 52 Pages: 38-42 Published: FEB 2015				
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C2	Dynamics of the fast-HiPIMS discharge during FINEMET-type film deposition By: Velicu, Ioana-Laura; Tiron, Vasile; Popa, Gheorghe SURFACE & COATINGS TECHNOLOGY Volume: 250 Pages: 57-64 Published: JUL 15 2014				
C1	High power impulse magnetron sputtering discharge By: Gudmundsson, J. T.; Brenning, N.; Lundin, D.; et al. JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A Volume: 30 Issue: 3 Article Number: 030801 Published: MAY 2012				
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C5	Study of Plasma Particle Distribution and Electron Temperature in Cylindrical Magnetron Sputtering By: Fu, YW; Ji, P; He, MS; Huang, PJ; Huang, GB; Huang, WH PLASMA CHEMISTRY AND PLASMA PROCESSING DOI 10.1007/s11090-023-10425-9 Early Access NOV 2023 Indexed 2023-12-03				
C4	Numerical framework for multi-scale modeling planar DC magnetron sputtering By: Tran, SBQ (Tran, Si Bui Quang) ; Leong, FY (Leong, Fong Yew) ; Hariharaputran, R (Hariharaputran, Ramanarayan) ; Ding, WJ (Ding, Wenjun) ; Lai, PY (Lai, Po -Yen) ; Le, DV (Le, Duc Vinh) VACUUM Volume 213 Article Number 112097 DOI10.1016/j.vacuum.2023.112097 Published JUL 2023 Early Access APR 2023 Indexed 2023-05-28				

C3	<p>Theory and molecular simulations of plasma sputtering, transport and deposition processes By: Brault, Pascal; Thomann, Anne-Lise; Cavarroc, Marjorie EUROPEAN PHYSICAL JOURNAL D Volume 77 Issue 2 Article Number 19 DOI10.1140/epjd/s10053-023-00592-x Published FEB 2023 Indexed 2023-02-28</p>				
C2	<p>Comparison of 1D and 2D particle-in-cell simulations for DC magnetron sputtering discharges By: Zheng, Bocong; Fu, Yangyang; Wang, Keliang; et al. PHYSICS OF PLASMAS Volume: 28 Issue: 1 Article Number: 014504 Published: JAN 2021</p>				
C1	<p>Application of dusty plasma for production of disperse composite materials By: Ivanov, A. S.; Pal, A. F.; Ryabinkin, A. N.; et al. RUSSIAN JOURNAL OF GENERAL CHEMISTRY Volume: 85 Issue: 5 Pages: 1270-1283 Published: MAY 2015</p>				
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C5	<p>Experimental investigation of free and bounded presheaths in weakly magnetized plasmas By: Kang, I. J.; Bae, M. -K.; Lho, T.; et al. CURRENT APPLIED PHYSICS Volume: 17 Issue: 3 Pages: 358-365 Published: MAR 2017</p>				
C4	<p>Comparative measurements of plasma potential with ball-pen and Langmuir probe in low-temperature magnetized plasma By: Zanaska, M.; Adamek, J.; Peterka, M.; et al. PHYSICS OF PLASMAS Volume: 22 Issue: 3 Article Number: 033516 Published: MAR 2015</p>				
C3	<p>Application of the Ball-Pen Probe in Two Low-Temperature Magnetised Plasma Devices and in Torsatron TJ-K By: Adamek, J.; Peterka, M.; Gyergyek, T.; et al. CONTRIBUTIONS TO PLASMA PHYSICS Volume: 53 Issue: 1 Special Issue: SI Pages: 39-44 Published: JAN 2013</p>				
C2	<p>Diagnostics of magnetized low temperature plasma by ball-pen probe By: Adamek, Jiri; Peterka, Matej; Gyergyek, Tomaz; et al. Conference: International Conference on Research and Applications of Plasmas (PLASMA) Location: Warsaw, POLAND Date: SEP 12-16, 2011 Sponsor(s): Polish Acad Sci, Comm Phys; Andrzej Soltan Inst Nucl Studies (IPJ); Inst Plasma Phys & Laser Microfus (IPPLM); Natl Ctr Nucl Res (NCBJ) NUKLEONIKA Volume: 57 Issue: 2 Pages: 297-300 Published: 2012</p>				
C1	<p>Interpretation of fast measurements of plasma potential, temperature and density in SOL of ASDEX Upgrade By: Horacek, J.; Adamek, J.; Mueller, H. W.; et al. Group Author(s): ASDEX Upgrade Team NUCLEAR FUSION Volume: 50 Issue: 10 Article Number: 105001 Published: OCT 2010</p>				
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C4	<p>Formations of anode double layer and ion beam in bipolar-pulse HiPIMS (BP-HiPIMS) By: Han, MY; Luo, Y; Li, H; Tang, L; Li, DD; Gu, JB; Li, LH; Xu, Y; Luo, SD PLASMA SOURCES SCIENCE & TECHNOLOGY Volume 31 Issue 10 Article Number 105014 DOI10.1088/1361-6595/ac9752 Published OCT 1 2022 Indexed 2022-11-09</p>				
C3	<p>Transition from ballistic to thermalized transport of metal-sputtered species in a DC magnetron By: Revel, Adrien; Farsy, Abderzak El; de Poucques, Ludovic; et al. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 30 Issue: 12 Article Number: 125005 Published: DEC 2021</p>				
C2	<p>Auxiliary capacitor to enhance oscillation in circuit and reduce current onset delay in HiPIMS discharge : Theory, experiment and simulation By: Han, Mingyue; Luo, Yang; Li, Hua; et al. SURFACE & COATINGS TECHNOLOGY Volume: 405 Article Number: 126518 Published: JAN 15 2021</p>				

C1	Effects of the dynamic cathode sheath on electron transport at the initial period of HiPIMS pulse studied by Langmuir probe measurements and 2D PIC-MCC simulation By: Han, Mingyue; Luo, Yang; Li, Hua; et al. Conference: 15th International Conference on Plasma Based Ion Implantation and Deposition (PBII and D) Location: Shenzhen, PEOPLES R CHINA Date: DEC 19-22, 2019 SURFACE & COATINGS TECHNOLOGY Volume: 403 Article Number: 126371 Published: DEC 15 2020				
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C4	Electrostatic probe analysis of SiO2 activating flux powders transition behavior in Powder Pool Coupled Activating TIG alternating current arc plasma for aluminum alloy By: Huang, Y; Li, QP; Xue, XP; Xu, H; Huang, JK; Fan, D JOURNAL OF MANUFACTURING PROCESSES Volume 84 Page 600-609 DOI10.1016/j.jmapro.2022.10.029 Published DEC 2022 Indexed 2022-11-17				
C3	Experimental and theoretical study of density, potential, and current structures of a helium plasma in front of an radio frequency antenna tilted with respect to the magnetic field lines By: Ledig, Jordan; Faudot, Eric; Moritz, Jerome; et al. CONTRIBUTIONS TO PLASMA PHYSICS Volume 60 Issue 10 Article Number e202000072 DOI10.1002/ctpp.202000072 Published NOV 2020 Early Access JUL 2020 Indexed 2020-08-12				
C2	Experimental and theoretical study of bumped characteristics obtained with cylindrical Langmuir probe in magnetized helium plasma By: Ledig, J.; Faudot, E.; Moritz, J.; et al. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 29 Issue: 3 Article Number: 035007 Published: MAR 2020				
C1	Effective collecting area of a cylindrical Langmuir probe in magnetized plasma By: Usoltceva, Mariia; Faudot, Eric; Devaux, Stephane; et al. PHYSICS OF PLASMAS Volume: 25 Issue: 6 Article Number: 063518 Published: JUN 2018				
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C3	Modeling and experimental comparison of pulsed-DC driven low-pressure plasma discharge in a metal tube By: Dezhi, X; Pengli, J; Xinyu, W; Hao, Z; Xiubo, T; K, CP CURRENT APPLIED PHYSICS Volume 61 Page 47-54 DOI 10.1016/j.cap.2024.02.012 Published MAY 2024 Early Access FEB 2024 Indexed 2024-04-04				
C2	Low-pressure hollow cathode plasma source carburizing technique at low temperature By: Liu, H. Y.; Che, H. L.; Li, G. B.; et al. SURFACE & COATINGS TECHNOLOGY Volume: 422 Article Number: 127511 Published: SEP 25 2021				
C1	New concept of metal ion thruster based on pulsed thermionic vacuum arc discharge By: Velicu, I-L; Tiron, V; Petrea, M-A; et al. PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 30 Issue: 1 Article Number: 015006 Published: JAN 2021				
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C2	Plasma propulsion modeling with particle-based algorithms By: Taccogna, F; Cichocki, F; Eremin, D; Fubiani, G; Garrigues, L JOURNAL OF APPLIED PHYSICS Volume 134 Issue 15 DOI 10.1063/5.0153862 Article Number 150901 Published OCT 21 2023 Indexed 2023-12-07				
C1	Parametric Study of Cavity IEMP Responses in a Cylinder by Coupling Monte Carlo Method and 3-D Electromagnetic Particle-in-Cell Method By: Meng, XS; Li, GR; Zhang, LY; Zhao, ZG; Liu, JZ IEEE TRANSACTIONS ON PLASMA SCIENCE Volume 51 Issue 7 Page 1869-1879 DOI10.1109/TPS.2023.3235702 Published JUL 2023 Indexed 2023-10-06				

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C2	LIBS detection of erosion/deposition and deuterium retention resulting from exposure to Pilot-PSI plasmas By: Piip, K.; van der Meiden, H. J.; Hamarik, L.; et al. JOURNAL OF NUCLEAR MATERIALS Volume: 489 Pages: 129-136 Published: JUN 2017				
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C2	Effects of high energy electrons on electron temperature measurements of asymmetric double Langmuir probes By: Jin, CY; Yip, CS; Jiang, D; Zhang, W; Xu, GS PHYSICS OF PLASMAS Volume 30 Issue 7 DOI10.1063/5.0134302 Article Number 073503 Published JUL 2023				
C1	Direct measurement of ion and electron flux ratio at their respective sheath-edges and absence of the electron Bohm criterion effects By: Jin, CY; Yip, CS; Zhang, W; Jiang, D; Xu, GS PLASMA SOURCES SCIENCE & TECHNOLOGY Volume 31 Issue 11 Article Number 115007 DOI10.1088/1361-6595/ac9b8d Published NOV 1 2022 Indexed 2022-11-23				
28	I. Mihaila, S. Costea, C. Costin, and G. Popa, "On Negative Slope of Probe Characteristics in Magnetized Plasmas", Contrib. Plasma Phys. 54(3) (2014) 291-297	4	4.00	1	0.25
C1	Effective collecting area of a cylindrical Langmuir probe in magnetized plasma By: Usoltceva, Mariia; Faudot, Eric; Devaux, Stephane; et al. PHYSICS OF PLASMAS Volume: 25 Issue: 6 Article Number: 063518 Published: JUN 2018				
29	C. Costin, I. Mihaila, H.J. van der Meiden, H. Tanaka, J. Scholten, H.J.N. van Eck, Plasma rotation and axial flow velocities in Magnum-PSI from cross-correlation measurements, Plasma Sources Sci. Technol. 32 (2023) 075010 (13pp) https://doi.org/10.1088/1361-6595/ace5d2	6	5.50	1	0.18
C1	Plasma-Driven Sciences: Exploring Complex Interactions at Plasma Boundaries By: Ishikawa, K; Koga, K; Ohno, N Source PLASMA Volume 7 Issue 1 Page 160-177 DOI 10.3390/plasma7010011 Published MAR 2024 Indexed 2024-04-11				
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C1	Electron trapping efficiency of a magnetron sputtering cathode By: Salahshoor, M Source PLASMA SOURCES SCIENCE & TECHNOLOGY Volume 33 Issue 6 DOI 10.1088/1361-6595/ad52c0 Article Number 065004 Published JUN 1 2024 Indexed 2024-06-23				

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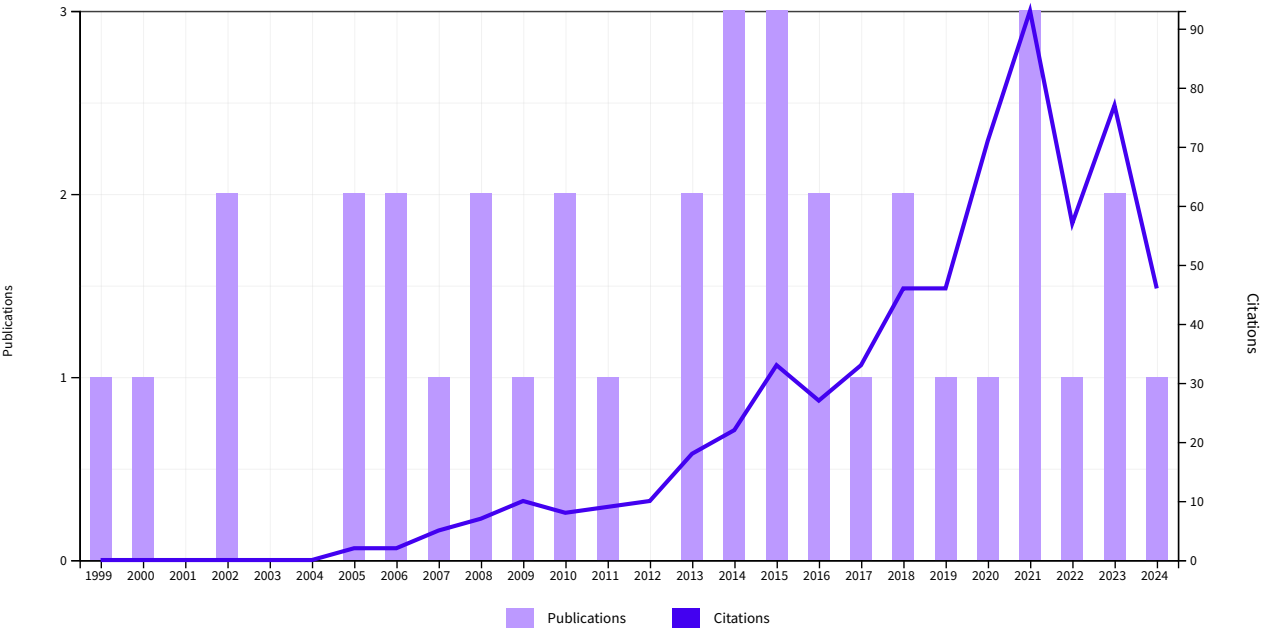
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⊖ 1	<p>Plasma-wall interaction studies within the EUROfusion consortium: progress on plasma-facing components development and qualification</p> <p>Brezinsek, S; Coenen, JW; (...); Zaplotnik, R</p> <p>Nov 2017 NUCLEAR FUSION ▼ 57 (11)</p>	27	24	12	11	9	12.75	102
⊖ 2	<p>Spokes and charged particle transport in HiPIMS magnetrons</p> <p>Brenning, N; Lundin, D; (...); Vitelaru, C</p> <p>Feb 27 2013 JOURNAL OF PHYSICS D-APPLIED PHYSICS ▼ 46 (8)</p>	6	7	5	6	4	7.67	92
⊖ 3	<p>Numerical modeling of the effect of the level of nitrogen impurities in a helium parallel plate dielectric barrier discharge</p> <p>Lazarou, C; Koukounis, D; (...); Georghiou, GE</p> <p>May 2015 PLASMA SOURCES SCIENCE & TECHNOLOGY ▼ 24 (3)</p>	10	12	6	6	5	6.5	65
⊖ 4	<p>On the HiPIMS benefits of multi-pulse operating mode</p> <p>Antonin, O; Tiron, V; (...); Minea, TM</p> <p>Jan 14 2015 JOURNAL OF PHYSICS D-APPLIED PHYSICS ▼ 48 (1)</p>	6	9	6	9	8	5.7	57
⊖ 5	<p>Two-dimensional fluid approach to the dc magnetron discharge</p> <p>Costin, C; Marques, L; (...); Gousset, G</p> <p>Feb 2005 PLASMA SOURCES SCIENCE & TECHNOLOGY ▼ 14 (1) , pp.168-176</p>	2	2	3	8	3	2.6	52
⊖ 6	<p>2D PIC-MCC simulations of magnetron plasma in HiPIMS regime with external circuit</p> <p>Revel, A; Minea, T and Costin, C</p> <p>Oct 2018 PLASMA SOURCES SCIENCE & TECHNOLOGY ▼ 27 (10)</p>	6	10	8	9	4	5.57	39
⊖ 7	<p>Kinetics of plasma species and their ionization in short-HiPIMS by particle modeling</p> <p>Minea, TM; Costin, C; (...); Caillault, L</p> <p>Spring Meeting of the European-Materials-Research-Society (EMRS)</p> <p>Sep 25 2014 SURFACE & COATINGS TECHNOLOGY ▼ 255 , pp.52-61</p>	3	4	3	4	3	3.36	37

⊖ 8	<p>Simultaneous measurements of ion temperature by segmented tunnel and Katsumata probe</p> <p>Adámek, J.; Kocan, M.; (...); Van Oost, G. 7th International Workshop on Electrical Probes in Magnetized Plasmas (IWEP 2007) 2008 CONTRIBUTIONS TO PLASMA PHYSICS ▼ 48 (5-7) , pp.395-399</p>	0	1	1	0	1	1.24	21
⊖ 9	<p>Direct measurements of the plasma potential by katsumata-type probes</p> <p>Schriftwieser, R.; Ionita, C.; (...); Van Oost, G. 22nd Symposium on Plasma Physics and Technology 2006 CZECHOSLOVAK JOURNAL OF PHYSICS ▼ 56 , pp.B145-B150</p>	0	0	0	0	0	0.84	16
⊖ 10	<p>Tailoring the charged particle fluxes across the target surface of Magnum-PSI</p> <p>Costin, C.; Anita, V.; (...); De Temmerman, G. Apr 2016 PLASMA SOURCES SCIENCE & TECHNOLOGY ▼ 25 (2)</p>	2	7	1	1	0	1.56	14
⊖ 11	<p>On the secondary electron emission in DC magnetron discharge</p> <p>Costin, C.; Popa, G. and Gousset, G. 17th European Conference on Atomic and Molecular Physics of Ionized Gases Oct 2005 JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS ▼ 7 (5) , pp.2465-2469</p>	2	1	0	2	1	0.7	14
⊖ 12	<p>A probe-based method for measuring the transport coefficient in the tokamak edge region</p> <p>Brotánková, J.; Adámek, J.; (...); de Peppel, LV 9th Workshop on Electric Fields, Structures and Relaxation in Edge Plasmas Dec 2006 CZECHOSLOVAK JOURNAL OF PHYSICS ▼ 56 (12) , pp.1321-1327</p>	0	0	0	1	0	0.63	12
⊖ 13	<p>Cross-section analysis of the Magnum-PSI plasma beam using a 2D multi-probe system</p> <p>Costin, C.; Anita, V.; (...); Brons, S. Feb 2015 PLASMA SOURCES SCIENCE & TECHNOLOGY ▼ 24 (1)</p>	1	3	1	1	0	1.1	11
⊖ 14	<p>Growth and characterization of W thin films with controlled Ne and Ar contents deposited by bipolar HiPIMS</p> <p>Tiron, V.; Bulaj, G.; (...); Burdusea, I.</p>	0	1	2	3	3	2.25	9