

FISA DE INDEPLINIRE A STANDARDELOR MINIMALE-ABILITARE IN DOMENIUL FIZICA

Dr. Catalin-Mihai TICOS, CS I

Researcher ID F-1677-2011

Evaluare	punctaj cerut in Anexa nr.3, Ordinul 6129 din 2016	punctaj realizat	
1. Activitatea didactica si profesionala	$A \geq 2$	A=	7.714
2. Activitatea de cercetare	$I \geq 4$	I=	8.600
	$P \geq 4$	P=	25.464
3. Recunoasterea impactului activitatii	$C \geq 40$	C=	79.840
	$h \geq 10$	h=	12
4. Punctaj total CNATDCU $T = A + P/2 + I/2 + C/20 + h/5$	$T \geq 12$	T=	31.138

DATA: 12 sept. 2019

SEMNATURA



1. Professional and curricular activity (factor A)

Dr. Catalin-Mihai TICOS, CS I

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Nr. crt.	Type of activity	Indicators
1	Author of books by international publishing houses indexed ISI	$A1 = \text{Sum}(4/n_{i_ef})$
	0	0
2	Author of book chapters by international publishing houses indexed ISI/reviews in ISI indexed journals	$A2 = \text{Sum}(1/n_{i_ef})$
	0	0
3	Editor of books by international publishing houses indexed ISI	$A3 = \text{Sum}(0.5/n_{i_ef})$
	0	0
4	Author of books, manuals, lab. manual by national or other international publishing houses, internal notes, data analysis presentations within large collaborations	$A4 = \text{Sum}(0.5/n_{i_ef})$
	M. Oane, D. Ticos, C.M. Ticos, Charged Particle Beams Processing Versus Laser Processing, Scholars Press, 116 pages, 2015; ISBN-13: 9783639667530, International Book Market Service Ltd., Brivibas gatve 197, LV-1039, Riga, Latvia.	0.167
5	Author of book chapters by national or other international publishing houses	$A5 = \text{Sum}(0.2/n_{i_ef})$
	0	0
6	Author of ISI indexed Proceedings papers in extenso (at least 3 pages)	$A6 = \text{Sum}(0.2/n_{i_ef})$
	1. I. R. Andrei, G. V. Popescu, C. M. Ticos, M. L. Pascu Optical Spectrum Analysis of Chaotic Synchronization in a Bidirectional Coupled Semiconductor Laser System, Proceedings of the 4th International Interdisciplinary Chaos Symposium, Editors: S.G Stavrinides, S. Banerjee, S.H. Caglar, M. Ozer, Chaos and Complex Systems, pp 425-429 (5 pages) (2013), Proceedings paper WOS:000346925200060	0.05
	2. C. M. Ticoș, Z. Wang, Dust accelerators and their Applications in High Temperature Plasmas, AIP Conference Proceedings 1336, pp 26-28 (3 pages) (2011). Proceedings paper, WOS:000302912900004.	0.1
	3. C. M. Ticoș, Experiments with a RF Dusty Plasma and an External Plasma Jet, AIP Conference Proceedings 1306, pp 180-187 (8 pages) (2010). Proceedings paper WOS:000286920400019.	0.2
	4. C. M. Ticoș, I. Jepu, C. P. Lungu, P. Chiru and V. Zaroschi, Dust Particles Interaction with plasma Jet, AIP Conference Proceedings 1188, pp 74-82 (9 pages) (2009). Proceedings paper, WOS:000280556100006.	0.04

	5. C. M. Ticoş, Z. Wang, G. A. Wurden, P. K. Shukla, Observation of Hypervelocity Dust in Dense Supersonic Plasma Flows: Physics and Applications, AIP Conference Proceedings 1061, pp 112-121 (10 pages) (2008). Proceedings paper, WOS:000260486000012.	0.05
	6. C. M. Ticoş, Z. Wang, G. A. Wurden, A New Parameter Regime for Dust in Plasma: the Case of Dense and Supersonic Plasma Flow, AIP Conference Proceedings 1041, pp 63-66 (4 pages) (2008). Proceedings paper, WOS:000259440600014.	0.067
	7. Z. Wang, D. K. Mansfield, L. A. Roquemore, C. M. Ticoş, G. A. Wurden, Applications and Progress of Dust Injection to Fusion Technology, AIP Proceedings 1041, pp 135-138 (4 pages) (2008). Proceedings paper, WOS:000259440600030.	0.04
	8. C. M. Ticoş, Z. Wang, G. A. Wurden, Hypervelocity Dust Storm Launched with a Coaxial Plasma Gun, 16th IEEE International Pulsed Power Conference, Digest of Technical Papers, p. 1106-1109 (4 pages) (2007). Proceedings paper, WOS:000253619300249.	0.067
	9. M. Bulinski, C.M. Ticoş, R. Andrei, M:N Synchronization of LFF in a Chaotic ECSL System, Proceedings of SPIE 6603, 660329/1-9 (9 pages) (2007). Proceedings paper, WOS:000250406900061.	0.067
	10. E. Rosa, Jr., C. M. Ticoş, W. B. Pardo, J. Walkenstein, M. Monti, J. Kurths, Phase Synchronization in a Plasma Discharge Driven by a Chaotic Signal, AIP Conference Proceedings 676, pp 301-306 (6 pages) (2003). Proceedings paper, WOS:000185578700036.	0.036
	11. M.L. Pascu, B. Carstocea, G. Popescu, L. Gafencu, S. Apostol, N. Moise, M. Roman, C. M. Ticoş, Laser Method for Corneal Structure Investigation, Proceedings of SPIE 3405, pp 665-672 (8 pages) (1997). Proceedings paper, WOS:000075367400094.	0.031
	Total A6=	0.747
7	International patents awarded	A7=Sum(3/ni_ef)
	0	0
8	National patents awarded	A8=Sum(0.5/ni_ef)
	C.P. Lungu, C.C. Porosnicu, I. Jepu, A. Anghel, P. Chiru, A.M. Lungu, C. Ticos, V. Zaroschi, M. Burada, V. Soare, V. Ghenescu, S. Antohe, Method for obtaining a transparent electrode made of ZnO for solar cells, by using the thermionic arc, (brevet nr. 128030), BOPI nr. 8/2106, patent awarded 30/08/2016.	0.059
9	Director/coordinator/reponsible for education projects, curricula, infrastructure projects (excluding research projects)	A9=Sum(0.5)
	0	0
10	Project director/responsible for research grants in amount of Vi won by competition nationally or internationally. Amounts in Lei are converted in Euros using the BNR exchange rate in the respective year (for periods before 1999 the rate of year 1999 will be used). Project responsables are those who lead a team and are mentioned in the project. In their case, only their team budget is considered.	A10=Sum(Vi/100000)

	1.Project responsible at INCDFLPR, research grant WPMAT: "Romanian participation to EUROfusion WPMAT and complementary research / WPMAT-RO", program EURATOM-RO Fusion, budget 325530 RON (~72488 EUR), exchange rate 4.4908 LEI/EUR-(average for year 2016); project implementation period 01.07.2016-30.12.2018, funding agency IFA, Magurele. Project Director: A. Galatanu (INFCDFM).	0.725
	2. Project responsible at INCDFLPR, research grant WPMAT: "Experimental techniques for surface properties enhancement and non-destructive investigations of HHFM (high heat flux materials)", program EURATOM-RO Fusion, budget 358135 RON (~80577 EUR), exchange rate 4.4446 LEI/EUR-(average for year 2014); project implementation period 05.06.2014-30.06.2016, funding agency IFA, Magurele. Project Director: A. Galatanu (INFCDFM).	0.806
	3.Project Director at INCDFLPR, research grant E06-LAPLACE in competition ELI-RO 2014: "Accelerations of electron to 1 GeV with high power lasers" total budget 667.263 RON, project implementation period 30.06.2014-30.06.2016; (~150128 EUR), exchange rate 4.4446 LEI/EUR-(average for year 2014), funding agency IFA, Magurele, http://www.ifa-mg.ro/eli/proiecte_stiintifice_2014_2016.php	1.501
	4.Project Director at INCDFLPR, research grant #100 TECHDUSTMARS in competition STAR-C2-CDI Projects 2016: "Technology for removing dust on Mars missions", total buget 838000 RON (~189635 EUR), exchange rate 4.419 LEI/EUR-(average for year 2013); project implementation period 29.11.2013-28.05.2016; funding agency Romanian Space Agency (ROSA), https://star.rosa.ro/about_competita_c2.php	1.896
	5.Project responsible at INCDFLPR, research grant BS_22: "Dust generation and ejection due to plasma wall interaction", program PC-EURATOM-Fusion- Capacitati, budget 152000 RON, (~34396 EUR), exchange rate 4.419 LEI/EUR-(average for year 2013); project implementation period 01.04.2013-13.12.2013, funding agency IFA, Magurele.	0.344
	6.Project Director at INCDFLPR, research grant RP-10, "Interaction of plasma jets with dust crystals: an experimental study bridging the fields of strongly coupled plasmas and strongly ionized plasmas", budget 510000 Lei (~152817 EUR), exchange rate 3.3373 LEI/EUR-(average for year 2007); project implementation period 01.10.2007-30.09.2009; funding agency CNCSIS-UEFISCSU. ; http://integrarerp10.inflpr.ro/indexENGL.htm	1.528
	Total A10=	6.800
	A=(A1+A2+A3+....+A10)	TOTAL A= 7.714

Date: 12 sept. 2019

Signature



2. RESEARCH ACTIVITY (factors I and P)

Dr. Catalin-Mihai TICOS, CS I

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List of Publications with Article Influence Score "AIS"

Nr. Crt.	Authors	Title	Type/Accession number	Publication	Vol.	pag.	year	nr. authors	nr. authors n_ef	AIS	I (=AIS/n_ef)	P (=AIS) for first autor/coresp.
1	D. Ticoș, A. Scurtu, M. Oane, C. Diplășu, G. Giubega, I. Călina, C.M.Ticos	Complementary dosimetry for a 6 MeV electron beam	Article, WOS:000485104100130	<i>Results in Physics</i>	14	102377 (5 pages)	2019	7	5.66	0.367	0.0648	0.367
2	C.M. Ticos, D. Ticos, J.D. Williams	Kinetic effects in a plasma crystal induced by an external electron beam	Article, WOS:000466708400089	<i>Physics of Plasmas</i>	26	43702 (5 pages)	2019	3	3	0.484	0.161	0.484
3	C.M. Ticos, M. Galatanu, A. Galatanu, C. Luculescu, A. Scurtu, N. Banu, D. Ticos, M. Dumitru	Cracks and nanodroplets produced on tungsten surface samples by dense plasma jets	Article, WOS:000419116600129	<i>Applied Surface Science</i>	434	1122 (7 pages)	2018	8	6.5	0.627	0.096	0.627
4	L. Avotina, M. Lungu, P. Dinca, B Butoi, G. Cojocaru, R. Ungureanu, A. Marcu, C. Luculescu, C. Hapenciuc, P.C. Ganea, A. Petjukevics, C.P. Lungu, G. Kizane, C.M. Ticos, S. Antohe	Irradiation of nuclear materials with laser-plasma filaments produced in air and deuterium by terrawatt (TW) laser pulses	Article, WOS:000418141100002	<i>Journal of Physics D- Applied Physics</i>	51	25302 (8 pages)	2018	15	10	0.696	0.070	0.000
5	C.M. Ticos, A. Scurtu, D. Ticos	A pulsed 'plasma broom' for dusting off surfaces on Mars	Article, WOS:000403055000001	<i>New Journal of Physics</i>	19	063006/1-11 (11 pages)	2017	3	3	1.569	0.523	1.569

6	M.G. Florescu, O. G. Dului, D. Pantazi, C.M. Ticos, D. Sporea, R. Vasilache, V. Ionescu, M. Oane	RADIOLOGICAL SAFETY ASSESSMENT FOR THE EXPERIMENTAL AREA OF A HYPER-INTENSE LASER WITH PEAK-POWER OF 1PW-CETAL	Article, WOS:000404476500013	<i>Radiation Protection Dosimetry</i>	175	104-109 (6 pages)	2017	8	6	0.238	0.040	0.000
7	M. Oane, I.N. Mihailescu, A. Buca, C. Ristoscu, G. Popescu-Pelin, C.M. Ticos	TWO-TEMPERATURE MODEL USING THE CATTANEO-VERNOTTE EQUATION IN THE ANISIMOV-NOLTE MODEL FOR APPLICATION IN LASER ADDITIVE	Article, WOS:000426792200017	<i>Digest Journal of Nanomaterials and Biostructures</i>	12	1247-1257 (11 pages)	2017	6	5.33	0.143	0.027	0.000
8	O Budriga, E. D Humieres, C.M. Ticos	SIMULATIONS FOR PROTONS AND ELECTRONS ACCELERATION WITH THE 1 PW LASER PULSE FROM CETAL FACILITY	Article, WOS:000367274400006	<i>Romanian Reports in Physics</i>	64	1271-1277 (7 pages)	2015	3	3	0.184	0.061	0.000
9	D. Toader, M. Oane, C.M. Ticos	Collimated electron beam accelerated at 12 kV from a Penning discharge	Article, WOS:000349068700016	<i>Review of Scientific instruments</i>	86	13301 (6 pages)	2015	3	3	0.536	0.179	0.536
10	C.M. Ticos, A. Scurtu, D. Toader, N. Banu	Experimental demonstration of Martian soil simulant removal from a surface using a pulsed plasma jet	Article, WOS:000352201400028	<i>Review of Scientific instruments</i>	86	33509 (5 pages)	2015	4	4	0.536	0.134	0.536

11	N. Iacob, G. Schinteie, P. Palade, C.M. Ticos, V. Kuncser	Stepped heating procedure for experimental SAR evaluation of ferrofluids	Article, WOS:000356538200002	<i>European Physical Journal E</i>	38	57 (6 pages)	2015	5	5	0.749	0.150	0.000
12	M. Oane, A. Peled, D. Toader, P. Mursa, C.M. Ticos	Semi-analytical Solution of the Thermal Field Distribution in a Semiconductor Under Simultaneous Irradiation by Three Laser Beams	Article, WOS:000362240700002	<i>Lasers in Engineering</i>	32	161 (4 pages)	2015	5	5	0.024	0.005	0.000
13	C.M. Ticos	HIGHLY ACCELERATED MICROPARTICLES IN PLASMA FLOWS	Article, WOS:000361856300023	<i>Romanian Reports in Physics</i>	67	1018-1027 (10 pages)	2015	1	1	0.184	0.184	0.184
14	N. Banu, C.M. Ticos	Precession of cylindrical dust particles in the plasma sheath	Article, WOS:000364403600122	<i>Physics of Plasmas</i>	22	103704 (6 pages)	2015	2	2	0.592	0.296	0.592
15	C.P. Lungu, C. Porosnicu, I. Jepu, M. Lungu, A. Marcu, C. Luculescu, C. Ticos, A. Marin, C.E.A. Grigorescu	The behavior of W, Be and C layers in interaction with plasma produced by terawatt laser beam pulses	Article, WOS:000345185300035	<i>Vacuum</i>	110	207-212 (6 pages)	2014	9	6.33	0.381	0.060	0.000
16	C. P. Lungu, C.M. Ticos, C. Porosnicu, I. Jepu, M. Lungu, A. Marcu, C. Luculescu, G. Cojocaru, D. Ursescu, R. Banici, G. R. Ungureanu	Periodic striations on beryllium and tungsten surfaces by indirect femtosecond laser irradiation	Article, WOS:000333082800015	<i>Applied Physics Letters</i>	104	101604-1/4 (4 pages)	2014	11	7	1.351	0.193	1.351

17	M. Oane, D. Toader, N. Iacob, C.M. Ticos	Thermal phenomena induced in a small tungsten sample during irradiation with a few MeV electron beam: Experiment versus simulations	Article, WOS:000342267000004	<i>Nuclear Instruments and Methods in Physics Research Section B</i>	337	17-20 (4 pages)	2014	4	4	0.365	0.091	0
18	M. Oane, D. Toader, N. Iacob, C.M. Ticos	Thermal phenomena induced in a small graphite sample during irradiation with a few MeV electron beam: Experiment versus theoretical simulations	Article, WOS:000329385800003	<i>Nuclear Instruments and Methods in Physics Research Section B</i>	318	232-236 (5 pages)	2014	4	4	0.365	0.091	0
19	C.M. Ticos	BANDGAPS IN THE DISPERSION OF WAVES ON A STRING OF DUST PARTICLES FLOATING IN PLASMA	Article, WOS:000337996600019	<i>U.P.B. Scientific Bulletin, Series A</i>	76	193-198 (5 pages)	2014	1	1	0.059	0.059	0.059
20	M. L. Mitu, D. Toader, N. Banu, A. Scurtu, <u>C. M. Ticos</u>	A 1-D dusty plasma photonic crystal	Article, WOS:000324827200013	<i>Journal of Applied Physics</i>	114	113305-1/10 (10 pages)	2013	5	5	0.836	0.167	0.836
21	N. Banu, D. Toader, M.L. Munteanu, A. Scurtu, <u>C. M. Ticos</u>	Survey of plasma crystal symmetry	Article, WOS:000326414700010	<i>Journal of Optoelectronics and Advanced Materials</i>	15	976 - 981 (5 pages)	2013	5	5	0.110	0.022	0.110
22	C. M. Ticos, D. Toader, L. M. Munteanu, N. Banu, A. Scurtu	High-speed imaging of dust particles in plasma	Article, WOS:000318623500005	<i>Journal of Plasma Physics</i>	79	273-285 (12 pages)	2013	5	5	0.310	0.062	0.310
23	D. Toader, M.L. Munteanu, N. Banu, A. Scurtu, <u>C. M. Ticos</u>	Evaluation of submillimeter electromagnetic waves scattering on dust particles in plasma	Article, WOS:000319788000027	<i>Journal of Optoelectronics and Advanced Materials</i>	15	294 - 298 (4 pages)	2013	5	5	0.110	0.022	0.110

24	C.M. Ticos, D.S. Stoica, G.L. Delzanno	Generation of dust projectiles passing over an obstacle in the plasma sheath	Article, WOS:000309252500104	<i>Physics of Plasmas</i>	19	083701-1/5	2012	3	3	0.741	0.247	0.741
25	M.L. Pascu, G.V. Popescu, C.M. Ticos, I.R. Andrei,	Unresonant interaction of laser beams with microdroplets	Article, WOS:000304389000001	<i>J. European Optical Society Rapid Publication</i>	7	12001-1/17	2012	4	4	0.399	0.100	0
26	G. Salamu, O. Sandu, F.Voicu, M. Dejanu, D. Popa, S. Parlac, C. Ticos, N. Pavel, T. Dascalu	Study of flame development in 12% methane-air mixture ignited by laser	Article, WOS:000298850300007	<i>Optoelectronics and Advanced Materials-Rapid Communications</i>	5(11)	1166-1169 (4 pages)	2011	9	6.33	0.053	0.008	0
27	C. M. Ticos, Z. Wang, G. A. Wurden	Observation of the Evolution of Supersonic Plasma Jet Launched by a Coaxial Gun	Article, WOS:000299683400167	<i>IEEE Transactions on Plasma Science</i>	39	2388-2389 (2 pages)	2011	3	3	0.424	0.141	0.424
28	C. M. Ticos, I. R. Andrei, M. L. Pascu, M. Bulinski	Experimental control of power dropouts by current modulation in a semiconductor laser with optical feedback	Article, WOS:000290231000010	<i>Physica Scripta</i>	83	055402-1/5 (5 pages)	2011	4	4	0.379	0.095	0.379
29	A. Marcu, C. M. Ticoș, C. Grigoriu, I. Jepu, C. Porosnicu, A. M. Lungu, C. P. Lungu	Simultaneous carbon and tungsten thin film deposition using two thermionic vacuum arcs	Article; Proceedings Paper, WOS:000290184500022	<i>Thin Solid Films</i>	519	4074-4077 (4 pages)	2011	7	5.66	0.596	0.105	0
30	C.M. Ticos, I. Jepu, C.P. Lungu, P. Chiru, V. Zaruschi and A.M. Lungu	Removal of floating dust in glow discharge using plasma jet	Article, WOS:000279707800010	<i>Applied Physics Letters</i>	97	011501/1-3 (3 pages)	2010	6	5.33	1.398	0.262	1.398

31	C.M. Ticos, I. Jepu, C.P. Lungu, P. Chiru, V. Zaruschi and A.M. Lungu	Levitated dust particles subjected to plasma jet	Article, WOS:000278169300029	<i>Journal of Plasma Physics</i>	76	501-511 (10 pages)	2010	6	5.33	0.300	0.056	0.300
32	I. R. Andrei, C. M. Ticos, M. Bulinski, M. L. Pascu	Chaotic behaviour in the emission of semiconductor lasers optically coupled with an external cavity	Article, WOS:000274733200013	<i>Journal of Optoelectronics and Advanced Materials</i>	12(1)	63-67 (4 pages)	2010	4	4	0.113	0.028	0
33	D. A. Gates et al. (196 authors in alphabetical order)	Overview of results from the National Spherical Torus Experiment (NSTX)	Article, WOS:000270388300017	<i>Nuclear Fusion</i>	49	104016 (14 pages)	2009	196	60.25	1.289	0.021	0
34	C.M. Ticos, Z. Wang, G. A. Wurden, J.L. Kline, D.S. Montgomery	Plasma jet acceleration of dust particles to hypervelocities	Article, WOS:000260573100057	<i>Physics of Plasmas</i>	15	103701/1-9 (9 pages)	2008	5	5	0.794	0.159	0.794
35	Z. Wang, C. M. Ticos	Dust as a versatile matter for high-temperature plasma diagnostic	Article; Proceedings Paper, WOS:000260573500252	<i>Review of Scientific Instruments</i>	79	10F333/1-3 (3pages)	2008	2	2	0.666	0.333	0
36	C.M. Ticos, Z. Wang, G.A. Wurden, J.L. Kline, D.S. Montgomery, L.A. Dorf, P.K. Shukla	Experimental demonstration of plasma-drag acceleration of a dust cloud to hypervelocities	Article, WOS:000255117800031	<i>Physical Review Letters</i>	100	155002 (4 pages)	2008	7	6	3.298	0.550	3.298
37	C.M. Ticos, Z. Wang, G.A. Wurden	Hypervelocity Dust Storm Launched With a Coaxial Plasma Gun	Article, WOS:000261363400041	<i>IEEE Transactions on Plasma Science</i>	36(5)	2770-2774 (5 pages)	2008	3	3	0.493	0.164	0.493

38	D. Rasleanu, V. Ionescu, G. Prodan, V. Ciupina, C.P. Lungu, C. Surdu-Bob, M. Osiac, O. Pompilian, M. Badulescu, A.M. Lungu, C.Ticoş, V. Zaroschi, L. Trupina, C. Miclea	Nanostructured PZT type thin films prepared by thermonic vacuum arc method	Article, WOS:000261348200042	<i>Journal of Optoelectronics and Advanced Materials</i>	10	3041-3047 (7 pages)	2008	14	8	0.113	0.014	0
39	Z. Wang, C. M. Ticos, G. A. Wurden	Dust trajectories and diagnostic applications beyond strongly coupled dusty plasmas	Article, WOS:000250589700092	<i>Physics of Plasmas</i>	14	103701 (11 pages)	2007	3	3	0.833	0.278	0
40	C.M. Ticos	Ion-driven dust waves in a rf plasma crystal	Article, WOS:000255028900027	<i>Romanian Journal of Physics</i>	52	703-709 (7 pages)	2007	1	1	0.101	0.101	0.101
41	C.M. Ticos, Z. Wang, L.A. Dorf, G.A. Wurden	Plasmadynamic hypervelocity dust injector for the national spherical torus experiment	Article; Proceedings Paper, WOS:000241722800051	<i>Review of Scientific Instruments</i>	77	10 E307 (3 pages)	2006	4	4	0.667	0.167	0.667
42	C.M. Ticos, M. Bulinski, R. Andrei, M. L. Pascu	Power dropout control by optical phase modulation in a chaotic semiconductor laser	Article, WOS:000242650100004	<i>Journal of the Optical Society of America B</i>	23	2486-2493 (8 pages)	2006	4	4	1.056	0.264	1.056
43	C.M. Ticos, Z. Wang, G.L. Delzanno, G. Lapenta	Plasma dragged microparticles as a method to measure plasma flows	Article, WOS:000241722400051	<i>Physics of Plasmas</i>	13	103501-1/10 (10 pages)	2006	4	4	0.847	0.212	0.847
44	L.A. Dorf, A.L. Roquemore, G.A. Wurden, C.M. Ticos, Z. Wang	Imaging system for hypervelocity dust injection diagnostic on NSTX	Article; Proceedings Paper, WOS:000241722800091	<i>Review of Scientific Instruments</i>	77	10E517 (3 pages)	2006	5	5	0.667	0.133	0

45	Z. Wang, C. M. Ticos, L. A. Dorf, G. A. Wurden	Microparticle probes for laboratory plasmas	Article; Proceedings Paper, WOS:000237029900013	<i>IEEE Transactions on Plasma Science</i>	34	242-248 (7 pages)	2006	4	4	0.479	0.120	0
46	C.M. Ticos, A. Dyson, P.W. Smith, P. K. Shukla,	Pressure triggered collective oscillations of a dust crystal in a capacitive RF plasma	Article; Proceedings Paper, WOS:000226806300027	<i>Plasma Physics and Controlled Fusion</i>	46	B293 (7 pages)	2004	4	4	1.004	0.251	1.004
47	C.M. Ticos, A. Dyson, P. W. Smith	The charge on falling dust particles in a RF plasma with DC negative bias	Article, WOS:000223626800006	<i>Plasma Sources Science and Technology</i>	13	395-402 (8 pages)	2004	3	3	1.012	0.337	1.012
48	C.M. Ticoş, P.W. Smith, P. K. Shukla	Oscillations of dust particles due to ion wake fields: An experimental demonstration	Article, WOS:000204232900022	<i>Physica Scripta</i>	T107	117-120 (4 pages)	2003	3	3	0.314	0.105	0.314
49	C.M. Ticos, P.W. Smith, P.K. Shukla	Experimental wake-induced oscillations of dust particles in a rf plasma	Article, WOS:000187351800009	<i>Physics Letters A</i>	319	504-509 (6 pages)	2003	3	3	0.639	0.213	0.639
50	E. Rosa, Jr., C.M. Ticos, W.B. Pardo, J. Walkenstein, M. Monti, J. Kurths	Experimental Chua-plasma phase synchronization of chaos	Article, WOS:000185194400005	<i>Physical Review E</i>	68	025202(R) (4 pages)	2003	6	5.33	1.178	0.221	0
51	W.B. Pardo, E. Rosa, Jr., C.M. Ticoş, J. Walkenstein, M. Monti	Pacing a chaotic plasma with a music signal	Article, WOS:000169481800007	<i>Physics Letters A</i>	284	259-265 (7 pages)	2001	5	5	0.728	0.146	0
52	C.M. Ticos, E. Rosa, Jr., W.B. Pardo, J. Walkenstein, M. Monti	Experimental real-time phase synchronization of a paced chaotic plasma discharge	Article, WOS:000089581400021	<i>Physical Review Letters</i>	85	2929-2932 (4 pages)	2000	5	5	4.326	0.865	4.326

53	E. Rosa, Jr., W.B. Pardo, C.M. Ticos, J. Walkenstein, M. Monti	Phase synchronization of chaos in a plasma discharge tube	Article, WOS:000166468000008	<i>International Journal of Bifurcation and Chaos</i>	10	2551-2563 (13 pages)	2000	5	5	0.579	0.116	0
54	F. Bertineto, C.M. Ticoș, M.L. Pascu, C. Biloiu, A. M. Dumitras	Experimental tunable semiconductor lasers	Article	<i>Romanian Reports in Physics</i>	49	811-827 (17 pages)	1997	5	5	0.080	0.016	0
55	G. Musa, I. Mustata, A. Popescu, G. Bajeu, C.M. Ticoș, A. Salabas, R. Breban, G.F. Leu	Preliminary results on the oscillatory behaviour of TVA (thermionic vacuum arc) in the range of negative slope of the current-voltage characteristic	Article	<i>Romanian Reports in Physics</i>	48	707-7015 (9 pages)	1996	8	6	0.080	0.013	0

TOTAL											8.600	25.464
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Required I=4, P=4

I=	8.600	
P=		25.464
I/2=	4.300	
P/2=		12.732

DATE: 12 Sept. 2019

SIGNATURE:

3. RECOGNITION AND IMPACT OF THE ACTIVITY (factor C and Hirsch h)

Dr. Catalin-Mihai TICOS, CS I

Researcher ID F-1677-2011

Number of citations "c" in ISI Web of Science (excluding autocitations)

Nr. Crt.	Authors	Title	Type/Accession number	Journal	vol	pag	year	n	n_ef	c	c/n_ef
1	D. Ticoş, A. Scurtu, M. Oane, C. Diplăşu, G. Giubega, I. Călina, C.M.Ticoş	Complementary dosimetry for a 6 MeV electron beam	Article, https://doi.org/10.1016/j.rinp.2019.102377	<i>Results in Physics</i>	14	102377 (5 pages)	2019	7	5.66	0	0
2	C.M. Ticos, D. Ticos, J.D. Williams	Kinetic effects in a plasma crystal induced by an external electron beam	Article, WOS:000466708400089	<i>Physics of Plasmas</i>		43702 (5 pages)	2019	3	3	0	0.00
3	C. M. Ticos, M. Galatanu, A. Galatanu, C. Luculescu, A. Scurtu, N. Banu, D. Ticos, M Dumitru	Cracks and nanodroplets produced on tungsten surface samples by dense plasma jets	Article, WOS:000419116600129	<i>Applied Surface Science</i>	434	1122 (7 pages)	2018	7	5.66	1	0.177
4	L. Avotina, M. Lungu, P. Dinca, B Butoi, G. Cojocaru, R. Ungureanu, A. Marcu, C. Luculescu, C. Hapenciuc, P.C. Ganea, A. Petjkevics, C.P. Lungu, G. Kizane, C.M. Ticos, S. Antohe	Irradiation of nuclear materials with laser-plasma filaments produced in air and deuterium by terrawatt (TW) laser pulses	Article, WOS:000418141100002	<i>Journal of Physics D-Applied Physics</i>	51	25302 (8 pages)	2018	15	10	0	0
5	C.M. Ticos, A. Scurtu, D. Ticos	A pulsed 'plasma broom' for dusting off surfaces on Mars	Article, WOS:000403055000001	<i>New Journal of Physics</i>	19	063006 /1-11 (11 pages)	2017	3	3	2	0.667

6	M. G. Florescu, O. G. Dului, D. Pantazi, C. M. Ticos, D. Sporea, R. Vasilache, V. Ionescu, M. Oane	RADIOLOGICAL SAFETY ASSESSMENT FOR THE EXPERIMENTAL AREA OF A HYPER-INTENSE LASER WITH PEAK-POWER OF 1PW-CETAL	Article, WOS:000404476500013	<i>Radiation Protection Dosimetry</i>	175	104-109 (6 pages)	2017	8	6	2	0.333
7	M. Oane, I.N. Mihailescu, A. Buca, C. Ristoscu, G. Popescu-Pelin, C.M. Ticos	TWO-TEMPERATURE MODEL USING THE CATTANEO-VERNOTTE EQUATION IN THE ANISIMOV-NOLTE MODEL FOR APPLICATION IN LASER ADDITIVE MANUFACTURING	Article, WOS:000426792200017	<i>Digest Journal of Nanomaterials and Biostructures</i>	12	1247-1257 (11 pages)	2017	6	5.33	1	0.188
8	O Budriga, E. D`Humieres, C.M. Ticos	SIMULATIONS FOR PROTONS AND ELECTRONS ACCELERATION WITH THE 1 PW LASER PULSE FROM CETAL FACILITY	Article, WOS:000367274400006	<i>Romanian Reports in Physics</i>	64	1271-1277 (7 pages)	2015	3	3	3	1.000
9	D. Toader, M. Oane, C.M. Ticos	Collimated electron beam accelerated at 12 kV from a Penning discharge	Article, WOS:000349068700016	<i>Review of Scientific instruments</i>	86	13301 (6 pages)	2015	3	3	0	0
10	C.M. Ticos, A. Scurtu, D. Toader, N. Banu	Experimental demonstration of Martian soil simulant removal from a surface using a pulsed plasma jet	Article, WOS:000352201400028	<i>Review of Scientific instruments</i>	86	33509 (5 pages)	2015	4	4	2	0.500
11	N. Iacob, G. Schinteie, P.Palade, C.M. Ticos, V. Kuncser	Stepped heating procedure for experimental SAR evaluation of ferrofluids	Article, WOS:000356538200002	<i>European Physical Journal E</i>	38	57 (6 pages)	2015	5	5	5	1.000
12	M. Oane, A. Peled, D. Toader, P. Mursa and C.M. Ticos	Semi-analytical Solution of the Thermal Field Distribution in a Semiconductor Under Simultaneous Irradiation by Three Laser Beams	Article, WOS:000362240700002	<i>Lasers in Engineering</i>	32	161 (4 pages)	2015	5	5	0	0

13	C.M. Ticos	HIGHLY ACCELERATED MICROPARTICLES IN PLASMA FLOWS	Article, WOS:000361856300023	<i>Romanian Reports in Physics</i>	67	1018-1027 (10 pages)	2015	1	1	0	0
14	N. Banu, C.M. Ticos	Precession of cylindrical dust particles in the plasma sheath	Article, WOS:000364403600122	<i>Physics of Plasmas</i>	22	103704 (6 pages)	2015	2	2	6	3
15	C.P. Lungu, C. Porosnicu, I. Jepu, M. Lungu, A. Marcu, C. Luculescu, C. Ticos, A. Marin, C.E.A. Grigorescu	The behavior of W, Be and C layers in interaction with plasma produced by terawatt laser beam pulses	Article, WOS:000345185300035	<i>Vacuum</i>	110	207-212 (6 pages)	2014	9	6.33	11	1.738
16	C. P. Lungu, C. M. Ticos, C. Porosnicu, I. Jepu, M. Lungu, A. Marcu, C. Luculescu, G. Cojocaru, D. Ursescu, R. Banici, and G. R. Ungureanu	Periodic striations on beryllium and tungsten surfaces by indirect femtosecond laser irradiation	Article, WOS:000333082800015	<i>Applied Physics Letters</i>	104	101604-1/4 (4 pages)	2014	11	7	5	0.714
17	M. Oane, D. Toader, N. Iacob, C. M. Ticos	Thermal phenomena induced in a small tungsten sample during irradiation with a few MeV electron beam: Experiment versus simulations	Article, WOS:000342267000004	<i>Nuclear Instruments and Methods in Physics Research Section B</i>	337	17-20 (4 pages)	2014	4	4	5	1.250
18	M. Oane, D. Toader, N. Iacob, C. M. Ticos	Thermal phenomena induced in a small graphite sample during irradiation with a few MeV electron beam: Experiment versus theoretical simulations	Article, WOS:000329385800003	<i>Nuclear Instruments and Methods in Physics Research Section B</i>	318	232-236 (5 pages)	2014	4	4	4	1.000
19	C.M. Ticos	BANDGAPS IN THE DISPERSION OF WAVES ON A STRING OF DUST PARTICLES FLOATING IN PLASMA	Article, WOS:000337996600019	<i>U.P.B. Scientific Bulletin, Series A</i>	76	193-198 (5 pages)	2014	1	1	0	0

20	M. L. Mitu, D. Toader, N. Banu, A. Scurtu, C. M. Ticos	A 1-D dusty plasma photonic crystal	Article, WOS:000324827200013	<i>Journal of Applied Physics</i>	114	113305-1/10 (10 pages)	2013	5	5	4	0.800
21	N. Banu, D. Toader, M.L. Munteanu, A. Scurtu, C. M. Ticos	Survey of plasma crystal symmetry	Article, WOS:000326414700010	<i>Journal of Optoelectronics and Advanced Materials</i>	15	976 - 981 (5 pages)	2013	5	5	0	0
22	C. M. Ticos, D. Toader, L. M. Munteanu, N. Banu, A. Scurtu	High-speed imaging of dust particles in plasma	Article, WOS:000318623500005	<i>Journal of Plasma Physics</i>	79	273-285 (12 pages)	2013	5	5	2	0.400
23	D. Toader, M.L. Munteanu , N. Banu, A. Scurtu , C. M. Ticos	Evaluation of submillimeter electromagnetic waves scattering on dust particles in plasma	Article, WOS:000319788000027	<i>Journal of Optoelectronics and Advanced Materials</i>	15	294 - 298 (4 pages)	2013	5	5	0	0
24	C. M. Ticos, D.S. Stoica, G. L. Delzanno,	Generation of dust projectiles passing over an obstacle in the plasma sheath	Article, WOS:000309252500104	<i>Physics of Plasmas</i>	19	083701-1/5	2012	3	3	1	0.333
25	M. L. Pascu, G.V. Popescu, C. M. Ticos, I. R. Andrei,	Unresonant interaction of laser beams with microdroplets	Article, WOS:000304389000001	<i>J. European Optical Society Rapid Publication</i>	7	12001-1/17	2012	4	4	8	2.000
26	G. Salamu, O. Sandu, F.Voicu, M. Dejanu, D. Popa, S. Parlac, C. Ticos, N. Pavel, T. Dascalu	Study of flame development in 12% methane-air mixture ignited by laser	Article, WOS:000298850300007	<i>Optoelectronics and Advanced Materials-Rapid Communications</i>	5(11)	1166-1169 (4 pages)	2011	9	6.33	2	0.316
27	C. M. Ticoș, Z. Wang, G. A. Wurden	Observation of the Evolution of Supersonic Plasma Jet Launched by a Coaxial Gun	Article, WOS:000299683400167	<i>IEEE Transactions on Plasma Science</i>	39	2388-2389 (2 pages)	2011	3	3	1	0.333

28	C. M. Ticos, I. R. Andrei, M. L. Pascu, M. Bulinski,	Experimental control of power dropouts by current modulation in a semiconductor laser with optical feedback	Article, WOS:000290231000010	<i>Physica Scripta</i>	83	055402-1/5 (5 pages)	2011	4	4	2	0.500
29	A. Marcu, C. M. Ticoş, C. Grigoriu, I. Jepu, C. Porosnicu, A. M. Lungu, C. P. Lungu	Simultaneous carbon and tungsten thin film deposition using two thermionic vacuum arcs	Article; Proceedings Paper, WOS:000290184500022	<i>Thin Solid Films</i>	519	4074-4077 (4 pages)	2011	7	5.66	10	1.767
30	C.M. Ticos, Z. Wang	Dust Accelerators And Their Applications In High-Temperature Plasmas	Proceedings Paper, WOS:000302912900004	<i>AIP Conference Proceedings</i>	1336	26-28 (3 pages)	2011	2	2	1	0.500
31	C. M. Ticos, I. Jepu, C. P. Lungu, P. Chiru, V. Zaroschi and A.M. Lungu	Removal of floating dust in glow discharge using plasma jet	Article, WOS:000279707800010	<i>Applied Physics Letters</i>	97	011501/1-3 (3 pages)	2010	6	5.33	5	0.938
32	C. M. Ticos, I. Jepu, C. P. Lungu, P. Chiru, V. Zaroschi and A.M. Lungu	Levitated dust particles subjected to plasma jet	Article, WOS:000278169300029	<i>Journal of Plasma Physics</i>	76	501-511 (10 pages)	2010	6	5.33	0	0
33	I. R. Andrei, C. M. Ticos, M. Bulinski, M. L. Pascu	Chaotic behaviour in the emission of semiconductor lasers optically coupled with an external cavity	Article, WOS:000274733200013	<i>Journal of Optoelectronics and Advanced Materials</i>	12(1)	63-67 (4 pages)	2010	4	4	3	0.750
34	D. A. Gates et al. (196 authors in alphabetical order)	Overview of results from the National Spherical Torus Experiment (NSTX)	Article, WOS:000270388300017	<i>Nuclear Fusion</i>	49	104016 (14 pages)	2009	196	60.25	25	0.415
35	C. M. Ticos, Z. Wang, G. A. Wurden, J.L. Kline, D.S. Montgomery	Plasma jet acceleration of dust particles to hypervelocities	Article, WOS:000260573100057	<i>Physics of Plasmas</i>	15	103701/1-9 (9 pages)	2008	5	5	10	2.000
36	Z. Wang, C. M. Ticos	Dust as a versatile matter for high-temperature plasma diagnostic	Article; Proceedings Paper, WOS:000260573500252	<i>Review of Scientific Instruments</i>	79	10F333/1-3 (3 pages)	2008	2	2	8	4.000

37	C. M. Ticos, Z. Wang, G. A. Wurden, J.L. Kline, D. S. Montgomery, L. A. Dorf, P.K. Shukla	Experimental demonstration of plasma-drag acceleration of a dust cloud to hypervelocities	Article, WOS:000255117800031	<i>Physical Review Letters</i>	100	155002 (4 pages)	2008	8	6	14	2.333
38	C.M. Ticos, Z. Wang, G.A. Wurden	Hypervelocity Dust Storm Launched With a Coaxial Plasma Gun	Article, WOS:000261363400041	<i>IEEE Transactions on Plasma Science</i>	36(5)	2770-2774 (5 pages)	2008	3	3	1	0.333
39	D. Rasleanu, V. Ionescu, G. Prodan, V. Ciupina, C.P. Lungu, C. Surdu-Bob, M. Osiac, O. Pompilian, M. Badulescu, A.M. Lungu, C.Ticos, V. Zaroschi, L. Trupina, C. Miclea	Nanostructured PZT type thin films prepared by thermonic vacuum arc method	Article, WOS:000261348200042	<i>Journal of Optoelectronics and Advanced Materials</i>	10	3041-3047 (7 pages)	2008	14	8	2	0.250
40	Z. Wang, C.H. Skinner, G.L. Delzanno, S.I. Krasheninnikov, G.M. Lapenta, A. Yu. Pigarov, P. K. Shukla, R.D. Smirnov, C.M. Ticos, W.P. West	Physics of dust in magnetic fusion devices	Proceedings paper, https://doi.org/10.1142/9789812799784_0018 ISBN-13978-981-279-977-7	<i>New Aspects of Plasma Physics, (Singapore: World Scientific Publishing)</i>		394-475 (82 pages)	2008	10	8.33	7	0.840
41	Z. Wang, C.M. Ticos, G.A. Wurden	Dust trajectories and diagnostic applications beyond strongly coupled dusty plasmas	Article, WOS:000250589700092	<i>Physics of Plasmas</i>	14	103701 (11 pages)	2007	3	3	8	2.667
42	C.M. Ticos	Ion-driven dust waves in a rf plasma crystal	Article, WOS:000255028900027	<i>Romanian Journal of Physics</i>	52	703-709 (7 pages)	2007	1	1	0	0
43	C.M. Ticos, Z. Wang, L.A. Dorf, G.A. Wurden	Plasmadynamic hypervelocity dust injector for the national spherical torus experiment	Article; Proceedings Paper, WOS:000241722800051	<i>Review of Scientific Instruments</i>	77	10 E307 (3 pages)	2006	4	4	5	1.250
44	C.M. Ticos, M. Bulinski, R. Andrei, M. L. Pascu	Power dropout control by optical phase modulation in a chaotic semiconductor laser	Article, WOS:000242650100004	<i>Journal of the Optical Society of America B</i>	23	2486-2493 (8 pages)	2006	4	4	2	0.500

45	C. M. Ticos, Z. Wang, G. L. Delzanno, G. Lapenta	Plasma dragged microparticles as a method to measure plasma flows	Article, WOS:000241722400051	<i>Physics of Plasmas</i>	13	103501-1/10 (10 pages)	2006	4	4	15	3.750
46	L. A. Dorf, A. L. Roquemore, G. A. Wurden, C. M. Ticos, Z. Wang	Imaging system for hypervelocity dust injection diagnostic on NSTX	Article; Proceedings Paper, WOS:000241722800091	<i>Review of Scientific Instruments</i>	77	10E517 (3 pages)	2006	5	5	5	1.000
47	Z. Wang, C. M. Ticos, L. A. Dorf, G. A. Wurden	Microparticle probes for laboratory plasmas	Article; Proceedings Paper, WOS:000237029900013	<i>IEEE Transactions on Plasma Science</i>	34	242-248 (7 pages)	2006	4	4	3	0.750
48	C. M. Ticos, A. Dyson, P.W. Smith, P. K. Shukla,	Pressure triggered collective oscillations of a dust crystal in a capacitive RF plasma	Article; Proceedings Paper, WOS:000226806300027	<i>Plasma Physics and Controlled Fusion</i>	46	B293 (7 pages)	2004	4	4	5	1.250
49	C. M. Ticos, A. Dyson, P. W. Smith	The charge on falling dust particles in a RF plasma with DC negative bias	Article, WOS:000223626800006	<i>Plasma Sources Science and Technology</i>	13	395-402 (8 pages)	2004	3	3	11	3.667
50	C. M. Ticoş, P. W. Smith, P. K. Shukla	Oscillations of dust particles due to ion wake fields: An experimental demonstration	Article, WOS:000204232900022	<i>Physica Scripta</i>	T107	117-120 (4 pages)	2003	3	3	1	0.333
51	C. M. Ticos, P. W. Smith, P. K. Shukla,	Experimental wake-induced oscillations of dust particles in a rf plasma	Article, WOS:000187351800009	<i>Physics Letters A</i>	319	504-509 (6 pages)	2003	3	3	4	1.333
52	E. Rosa, Jr., C. M. Ticos, W. B. Pardo, J. Walkenstein, M. Monti, J. Kurths	Experimental Chua-plasma phase synchronization of chaos	Article, WOS:000185194400005	<i>Physical Review E</i>	68	025202(R) (4 pages)	2003	6	5.33	16	3.002
53	E. Rosa, Jr., C.M. Ticoş, W.B. Pardo, J. Walkenstein, M. Monti, J. Kurths	Phase Synchronization in a Plasma Discharge Driven by a Chaotic Signal	Proceedings paper, WOS:000185578700036	<i>AIP Conference Proceedings</i>	676	301-306 (6 pages)	2003	6	5.33	3	0.563
54	W. B. Pardo, E. Rosa, Jr., C. M. Ticoş, J. Walkenstein, M. Monti	Pacing a chaotic plasma with a music signal	Article, WOS:000169481800007	<i>Physics Letters A</i>	284	259-265 (7 pages)	2001	5	5	3	0.600

55	C. M. Ticos, E. Rosa, Jr., W. B. Pardo, J. Walkenstein, M. Monti	Experimental real-time phase synchronization of a paced chaotic plasma discharge	Article, WOS:000089581400021	<i>Physical Review Letters</i>	85	2929-2932 (4 pages)	2000	5	5	99	19.800
56	E. Rosa, Jr., W. B. Pardo, C.M. Ticos, J. Walkenstein, M. Monti	Phase synchronization of chaos in a plasma discharge tube	Article, WOS:000166468000008	<i>International Journal of Bifurcation and Chaos</i>	10	2551-2563 (13 pages)	2000	5	5	45	9.000
57	F. Bertinetto, C. M. Ticoş, M.L. Pascu, C. Biloiu, A.M. Dumitras,	Experimental tunable semiconductor lasers	Article	<i>Romanian Reports in Physics</i>	49	811-827 (17 pages)	1997	5	5	0	0
58	G. Musa, I. Mustata, A. Popescu, G. Bajeu, C.M. Ticoş, A. Salabas, R. Breban, G.F. Leu	Preliminary results on the oscillatory behaviour of TVA (thermionic vacuum arc) in the range of negative slope of the current-voltage	Article	<i>Romanian Reports in Physics</i>	48	707-7015 (9 pages)	1996	8	6	0	0

TOTAL

378 79.840

Required C=40

C= 79.840

C/20= 3.992

Hirsch index h=12

Web of Science



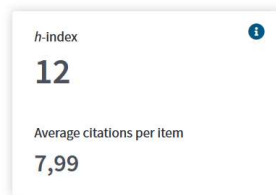
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DATE 12 Sept. 2019

SIGNATURE

Dr. Cătălin-Mihai TICOȘ, CS I

List of citations in ISI Web of Science (Sept 2019)

[1] D. Ticoș, A. Scurtu, M. Oane, C. Diplasu, G. Giubega, I Calina, **C.M. Ticos**
Complementary dosimetry for a 6 MeV electron beam
Results in Physics 14, 102377 (2019)

Nr. citations: 0

[2] **C.M. Ticoș**, D. Ticos, J. Williams,
Kinetic effects in a plasma crystal induced by an external electron beam
Physics of Plasmas 26, 43702 (2019)

Nr. citations: 0

[3] **C. M. Ticoș**, M. Galatanu, A. Galatanu, C. Luculescu, A. Scurtu, N. Banu, D. Ticos,
Cracks and nanoparticles produced on tungsten surface by dense plasma jets
Applied Surface Science 434, 1122-1128 (2018)

Nr. citations: 1

Structure and phase composition of tungsten alloys modified by compression plasma flows and high-intense pulsed ion beam impacts

By: Shymanski, V., I; Uglov, V. V.; Cherenda, N. N.; Pigasova, V. S. Astashynski, V. M. Kuzmitski, A. M., Zhong, H. W., Zhang, S. J., Le, X. Y., Remnev, G. E.

APPLIED SURFACE SCIENCE Volume: 491 Pages: 43-52 Published: OCT 15 2019

FI=5.155, WOS:000479082900006

[4] L. Avotina, M. Lungu, P. Dinca, B Butoi, G. Cojocar, R. Ungureanu, A. Marcu, C. Luculescu, C. Hapenciuc, P.C. Ganea, A. Petjukevics, C.P. Lungu, G. Kizane, **C.M. Ticoș**, S. Antohe,
Irradiation of nuclear materials with laser-plasma filaments produced in air and deuterium by terrawatt (TW) laser pulses
Journal of Physics D-Applied Physics 51, 25302 (2018).

Nr. citations: 0

[5] **C.M. Ticoș**, A. Scurtu, D. Ticos,
A pulsed "plasma broom" for dusting off surfaces on Mars,
New Journal of Physics 19, 063006 (2017).

Nr. citations: 2:

1.

Triboelectric microplasma powered by mechanical stimuli

By: Cheng, Jia; Ding, Wenbo; Zi, Yunlong; Lu, Yijia; Ji, Linhong; Liu Fan, Wu Changsheng, Wang Zhong Lin

NATURE COMMUNICATIONS Volume: 9 Article Number: 3733 Published: SEP 13 2018

FI=11.878, WOS:000444494800017

2.

Solar energy dust and soiling R & D progress: Literature review update for 2016

By: Costa, Suellen C. S.; Diniz, Antonia Sonia A. C.; Kazmerski, Lawrence L.

RENEWABLE & SUSTAINABLE ENERGY REVIEWS Volume: 82 Pages: 2504-2536 Part: 3 Published: FEB 2018

FI=10.556, WOS:000418574800039

[6] M.G. Florescu, O.G. Dului, D. Pantazi, **C.M. Ticoș**, D. Sporea, R. Vasilache, V. Ionescu, M. Oane,
Radiological safety assessment for the experimental area of a hyper-intense laser with peak-power of 1PW—CETAL,
Radiation Protection Dosimetry 175 (1): 104-109 (2017).

Nr. citations: 2

1.

Advances in Spectral Distribution Assessment of Laser Accelerated Protons using Multilayer CR-39 Detectors

By: Groza, Andreea; Serbanescu, Mihai; Butoi, Bogdan; Stancu, E (Stancu, Elena); Straticiu, M (Straticiu, Mihai); Burducea, I (Burducea, Ion); Balan, A (Balan, Adriana); Chiroasca, A (Chiroasca, Alecsandru); Mihalcea, B (Mihalcea, Bogdan); Ganciu, M (Ganciu, Mihai)

APPLIED SCIENCES-BASEL Volume: 9 Issue: 10 Article Number: 2052 Published: MAY 2 2019

FI=2.217, WOS:000473748100087

2.

DOSIMETRIC EVALUATION OF LASER-DRIVEN X-RAY AND NEUTRON SOURCES UTILIZING XG-III PS LASER WITH PEAK POWER OF 300 TERAWATT

By: Yang, Bo; Qiu, Rui; Jiao, Jinlong; Lu, W (Lu, Wei); Zhang, ZM, Zhou, WM (Zhou, Weimin); Ma, C (Ma, Chi); Zhang, H (Zhang, Hui); Li, JL (Li, Junli)

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By: Oane, M.; Popescu-Pelin, G.; Ticos, D., Sufaru, L., Iacob, N., Buca, A., Pacala, O. Mihailescu, N., Mihailescu, I. N.

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By: Budriga, O.; D'Humieres, E.

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MULTIDIMENSIONAL LOCALIZED STRUCTURES IN OPTICAL AND MATTER-WAVE MEDIA: A TOPICAL SURVEY OF RECENT LITERATURE

By: Mihalache, Dumitru

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By: Cheng, Jia; Ding, Wenbo; Zi, Yunlong; Lu, Yijia; Ji, Linhong; Liu Fan, Wu Changsheng, Wang Zhong Lin

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By: Liu, Shuai; Huang, Yizhi; Guo, Haishan; ; Lin, TY (Lin, Tianyu); Huang, D (Huang, Dong); Yang, LJ (Yang, Lanjun)

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By: Kuncser, Andrei; Iacob, Nicusor; Kuncser, Victor E.

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By: Pimentel, B.; Caraballo-Vivas, R. J.; Checca, N. R.; Zverev, VI (Zverev, V. I.); Salakhova, RT (Salakhova, R. T.); Makarova, LA (Makarova, L. A.); Pyatakov, AP (Pyatakov, A. P.); Perov, NS (Perov, N. S.); Tishin, AM (Tishin, A. M.); Shtil, AA (Shtil, A. A.); Rossi, AL (Rossi, A. L.); Reiss, MS (Reiss, M. S.)

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By: Hemery, Gauvin; Keyes, Anthony C., Jr.; Garaio, Eneko; Rodrigo, I (Rodrigo, Irati); Garcia, JA (Angel Garcia, Jose); La, FP (La, Fernando Plaza); Garanger, E (Garanger, Elisabeth); Sandre, O (Sandre, Olivier)

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By: Wang, Zhaoying; Guo, Lixin; Dan, Li; Li, JT (Li, Jiangting)
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By: Ren, Yi; Guo, Li-xin; Chen, Wei; Liu, SH (Liu, Song-hua)
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By: Guo, Li-xin; Chen, Wei; Li, Jiang-ting; Ren, Y (Ren, Yi); Liu, SH (Liu, Song-hua)
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By: Kumar, M.; Makepeace, C.; Pardanaud, C.; Ferro, Y (Ferro, Y.) ; Hodille, E (Hodille, E) ; Martin, C (Martin, C) ; Roubin, P (Roubin, P) ; Widdowson, A (Widdowson, A) ; Dittmar, T (Dittmar, T) ; Linsmeier, CH (Linsmeier, C. H.); Lungu, CP (Lungu, C. P.); Porosnicu, C (Porosnicu, C); Jepu, I (Jepu, I); Dinca, P (Dinca, P); Lungu, M (Lungu, M); Pompilian, OG (Pompilian, O. G.).
Group Author(s): JET Contributors

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FI=2.025, WOS:000454165000043

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By: Mogildea, M.; Mogildea, G.

OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS Volume: 12 Issue: 11-12 Pages: 713-718 Published: NOV-DEC 2018

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By: Toliás, P.; Riva, G.; De Angeli, M.; Ratynskaia, S (Ratynskaia, S.); Daminelli, G (Daminelli, G.); Lungu, CP (Lungu, C. P.); Porosnicu, C (Porosnicu, C.)

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By: Mateus, R.; Sequeira, M. C.; Porosnicu, C.; Lungu, CP (Lungu, C. P.); Hakola, A (Hakola, A.); Alves, E (Alves, E.)

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By: Moser, L.; Doerner, R. P.; Baldwin, M. J.; Lungu, CP (Lungu, C. P.); Porosnicu, C (Porosnicu, C.); Newman, M (Newman, M.); Widdowson, A (Widdowson, A.); Alves, E (Alves, E.); Pintsuk, G (Pintsuk, G.); Likonen, J (Likonen, J.); Hakola, A (Hakola, A.); Steiner, R (Steiner, R.); Marot, L (Marot, L.); Meyer, E (Meyer, E.)

Group Author(s): JET Contributors

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FI=3.516, WOS:000404276400003

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INVESTIGATION OF THE Cu-Co-Fe NANOSTRUCTURATED FILMS DEPOSITED BY THERMIONIC VACUUM ARC TECHNOLOGY

By: Ciupina, V.; Ilie, D.; Manu, R.; Prioteasa, I (Prioteasa, I.); Jepu, I (Jepu, I.); Petrasescu, L (Petrasescu, L.); Dinca, P (Dinca, P.); Vasile, E (Vasile, E.)

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By: Rusu, M. I.; Pardanaud, C.; Ferro, Y.; Giacometti, G (Giacometti, G.); Martin, C (Martin, C.); Addab, Y (Addab, Y.); Roubin, P (Roubin, P.); Minissale, M (Minissale, M.); Ferri, L (Ferri, L.); Virof, F (Virof, F.); Barrachin, M (Barrachin, M.); Lungu, CP (Lungu, C. P.); Porosnicu, C (Porosnicu, C.); Dinca, P (Dinca, P.); Lungu, M (Lungu, M.); Koppen, M (Koeppen, M.); Hansen, P (Hansen, P.); Linsmeier, C (Linsmeier, Ch.)

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By: Marin, Alexandru; Lungu, Cristian P.; Porosnicu, Corneliu

JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A Volume: 35 Issue: 2 Article Number: 021403 Published: MAR 2017

FI=1.833, WOS:000397762400021

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By: Pardanaud, Cedric; Martin, Celine; Roubin, Pascale
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DOI: 10.5772/65649
Article; Book Chapter, WOS:000412566400002
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Raman microscopy investigation of beryllium materials

By: Pardanaud, C.; Rusu, M. I.; Giacometti, G.; Martin, C (Martin, C.); Addab, Y (Addab, Y.); Roubin, P (Roubin, P.); Lungu, CP (Lungu, C. P.); Porosnicu, C (Porosnicu, C.); Jepu, I (Jepu, I.); Dinca, P (Dinca, P.); Lungu, M (Lungu, M.); Pompilian, OG (Pompilian, O. G.); Mateus, R (Mateus, R.); Alves, E (Alves, E.); Rubel, M (Rubel, M.)

Group Author(s): JET Contributors

Conference: 15th International Conference on Plasma-Facing Materials and Components for Fusion Applications (PFMC)

Location: Aix en Provence, FRANCE Date: MAY, 2015

PHYSICA SCRIPTA Volume: T167 Article Number: 014027 Published: FEB 20 2016

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By: Avotina, L.; Marcu, A.; Porosnicu, C.; Lungu, M (Lungu, M.); Stancalie, A (Stancalie, A.); Ilie, AG (Ilie, A. G.); Ganea, PC (Ganea, P. C.); Savastru, D (Savastru, D.); Kalnacs, J (Kalnacs, J.); Lungu, CP (Lungu, C. P.); Kizane, G (Kizane, G.); Antohe, S (Antohe, S.)

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FI=0.638, WOS:000376177200033

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By: Li, Guoqiang

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Article; Book Chapter, WOS:000448765900006

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MATERIALS IN EXTREME ENVIRONMENTS FOR ENERGY, ACCELERATORS AND SPACE APPLICATIONS AT ELI-NP

By: Asavei, T.; Tomut, M.; Bobeica, M.; Aogaki, S (Aogaki, S.); Cernaianu, MO (Cernaianu, M. O.); Ganciu, M (Ganciu, M.); Kar, S (Kar, S.); Manda, G (Manda, G.); Mocanu, N (Mocanu, N.); Neagu, L (Neagu, L.); Postolache, C (Postolache, C.); Savu, D (Savu, D.); Stutman, D (Stutman, D.); Vizman, D (Vizman, D.); Ursescu, D (Ursescu, D.); Gales, S (Gales, S.); Zamfir, NV (Zamfir, N. V.)

ROMANIAN REPORTS IN PHYSICS Volume: 68 Supplement: 1 Pages: S275-S347 Published: 2016

FI=1.94, WOS:000380601700007

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MULTI-WAVELENGTH LASER IRRADIATION OF Be-C-W COATINGS

By: Avotina, L.; Marcu, A.; Porosnicu, C.; Lungu, M (Lungu, M.); Stancalie, A (Stancalie, A.); Ilie, AG (Ilie, A. G.); Ganea, PC (Ganea, P. C.); Savastru, D (Savastru, D.); Kalnacs, J (Kalnacs, J.); Lungu, CP (Lungu, C. P.); Kizane, G (Kizane, G.); Antohe, S (Antohe, S.)

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Femtosecond laser direct writing of large-area two-dimensional metallic photonic crystal structures on tungsten surfaces

By: Qiao, Hongzhen; Yang, Jianjun; Wang, Fei; Yang, Y (Yang, Yang); Sun, JL (Sun, Julong)

OPTICS EXPRESS Volume: 23 Issue: 20 Pages: 26617-26627 Published: OCT 5 2015

FI=3.561, WOS:000365077900116

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Large-Area One-Step Assembly of Three-Dimensional Porous Metal Micro/Nanocages by Ethanol-Assisted Femtosecond Laser Irradiation for Enhanced Antireflection and Hydrophobicity

By: Li, Guoqiang; Li, Jiawen; Zhang, Chenchu, Hu, YL (Hu, Yanlei); Li, XH (Li, Xiaohong); Chu, JR (Chu, Jiaru); Huang, WH (Huang, Wenhao); Wu, D (Wu, Dong)

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Thermal phenomena induced in a small tungsten sample during irradiation with a few MeV electron beam: Experiment versus simulations

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Behavior of tungsten under irradiation and plasma interaction

By: Rieth, Michael; Doerner, Russell; Hasegawa, Akira; Ueda, Y (Ueda, Yoshio); Wirtz, M (Wirtz, Marius)

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FI=2.547, WOS:000465088900035

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Thermal phenomena by interaction between 6 MeV electron beams with double samples of C and W

By: Oane, M.; Popescu-Pelin, G.; Ticos, D.; Sufaru, L (Sufaru, L.); Iacob, N (Iacob, N.); Buca, A (Buca, A.); Pacala, O (Pacala, O.); Mihailescu, N (Mihailescu, N.); Mihailescu, IN (Mihailescu, I. N.)

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FI=0.452, WOS:000432931800011

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ANALYTICAL AND SEMI-ANALYTICAL HEAT TRANSFER MODELS FOR STRONG LASER-OPTICAL WINDOWS WEAK INTERACTION USING INTEGRAL TRANSFORM TECHNIQUE

By: Oane, Mihai; Ticos, Dorina; Ristoscu, Carmen; Badiceanu, M (Badiceanu, Maria); Buca, A (Buca, Anca); Mihailescu, IN (Mihailescu, Ion N.)

ROMANIAN JOURNAL OF PHYSICS Volume: 63 Issue: 3-4 Article Number: 501 Published: 2018

FI=1.46, WOS:000432491600004

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Synthesis of substituted lithium ferrites under the pulsed and continuous electron beam heating

By: Lysenko, Elena N.; Surzhikov, Anatoliy P.; Vlasov, Vitaliy A.; Nikolaev, EV (Nikolaev, Evgeniy V.); Malyshev, AV (Malyshev, Andrey V.); Bryazgin, AA (Bryazgin, Alexandr A.); Korobeynikov, MV (Korobeynikov, Mikhail V.); Mikhailenko, MA (Mikhailenko, Mikhail A.)

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FI=1.21, WOS:000398763500001

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The temperature field distributions in a Fe target under low power laser irradiation and low heat transfer coefficient conditions: experiments versus simulations

By: Buca, A.; Damian, V.; Oane, M.; Medianu, RV (Medianu, R. V.); Mihailescu, IN (Mihailescu, I. N.); Popescu-Pelin, G (Popescu-Pelin, G.)

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FI=0.452, WOS:000374426400008

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Thermal phenomena induced in a small graphite sample during irradiation with a few MeV electron beam: Experiment versus theoretical simulations

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Nr. citations: 4

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Thermal phenomena by interaction between 6 MeV electron beams with double samples of C and W

By: Oane, M.; Popescu-Pelin, G.; Ticos, D.; Sufaru, L (Sufaru, L.); Iacob, N (Iacob, N.); Buca, A (Buca, A.); Pacala, O (Pacala, O.); Mihailescu, N (Mihailescu, N.); Mihailescu, IN (Mihailescu, I. N.)

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FI=0.452, WOS:000432931800011

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ANALYTICAL AND SEMI-ANALYTICAL HEAT TRANSFER MODELS FOR STRONG LASER-OPTICAL WINDOWS WEAK INTERACTION USING INTEGRAL TRANSFORM TECHNIQUE

By: Oane, Mihai; Ticos, Dorina; Ristoscu, Carmen; Badiceanu, M (Badiceanu, Maria); Buca, A (Buca, Anca); Mihailescu, IN (Mihailescu, Ion N.)

ROMANIAN JOURNAL OF PHYSICS Volume: 63 Issue: 3-4 Article Number: 501 Published: 2018

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Medium power laser versus electron beam interaction in graphite bulk target processing: A theoretical analysis

By: Sufaru, L.; Oane, M.; Popescu-Pelin, G.; Mihailescu, N (Mihailescu, N.); Buca, A (Buca, A.); Mihailescu, IN (Mihailescu, I. N.)

OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS Volume: 11 Issue: 3-4 Pages: 161-163 Published: MAR-APR 2017

FI=0.452, WOS:000404145300009

4.

The temperature field distributions in a Fe target under low power laser irradiation and low heat transfer coefficient conditions: experiments versus simulations

By: Buca, A.; Damian, V.; Oane, M.; Medianu, RV (Medianu, R. V.); Mihailescu, IN (Mihailescu, I. N.); Popescu-Pelin, G (Popescu-Pelin, G.)

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U.P.B. Sci. Bull., Series A 76, 193-198 (2014).

Nr. citations: 0

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1-D Photonic Dusty Plasma Crystal

Journal of Applied Physics 114, 113305-1/10 (2013).

Nr. citations: 4

1.

First Observation of Crystallike Configuration of Microorganisms in an RF Plasma

By: Sanpei, Akio; Kigami, Tomohito; Hayashi, Yasuaki; Himura, H (Himura, Haruhiko); Masamune, S (Masamune, Sadao); Sampei, M (Sampei, Mai)

Conference: 15th Workshop on Physics of Dusty Plasmas (WPDP) Location: Baltimore, MD Date: MAY 29-JUN 01, 2018

IEEE TRANSACTIONS ON PLASMA SCIENCE Volume: 47 Issue: 7 Special Issue: SI Pages: 3074-3078 Part:

1 Published: JUL 2019

FI=1.325, WOS:000474564300008

2.

Dust lattice waves in Debye binary dust chain

By: He, Kerong; Chen, Hui; Liu, Sanqiu

PHYSICS OF PLASMAS Volume: 24 Issue: 12 Article Number: 123705 Published: DEC 2017

FI=1.913, WOS:000418957200096

3.

Plasma metamaterials as cloaking and nonlinear media

By: Sakai, O.; Yamaguchi, S.; Bambina, A.; Iwai, A (Iwai, A.); Nakamura, Y (Nakamura, Y.); Tamayama, Y (Tamayama, Y.); Miyagi, S (Miyagi, S.)

PLASMA PHYSICS AND CONTROLLED FUSION Volume: 59 Issue: 1 Article Number: 014042 Published: JAN 2017
FI=2.799, WOS:000390238700002

4.

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By: Zhang, Hai-Feng; Liu, Shao-Bin; Jiang, Yu-Chi

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 By: Harnisch, Martina; Keim, Alan; Scheier, Paul; Herman, Z (Herman, Zdenek)
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By: Boyer, M. D.; Battaglia, D. J.; Mueller, D.; Eidietis, N (Eidietis, N); Erickson, K (Erickson, K); Ferron, J (Ferron, J); Gates, DA (Gates, D. A); Gerhardt, S (Gerhardt, S); Johnson, R (Johnson, R); Kolemen, E (Kolemen, E); Menard, J (Menard, J.); Myers, CE (Myers, C. E); Sabbagh, SA (Sabbagh, S. A); Scotti, F (Scotti, F); Vail, P (Vail, P.)

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By: Chuyanov, V. A.; Gryaznevich, M. P.

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Group Author(s): MAST Team

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By: Ono, Masayuki; Kaita, Robert

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By: LaBombard, B.; Golfinopoulos, T.; Brunner, D.; Terry, JL (Terry, J. L); Davis, E (Davis, E.); Greenwald, M (Greenwald, M.); Hughes, JW (Hughes, J. W.)

Group Author(s): Alcator C-Mod Team

Conference: 55th Annual Meeting of the APS Division of Plasma Physics Location: Denver, CO Date: NOV 11-14, 2013

PHYSICS OF PLASMAS Volume: 21 Issue: 5 Article Number: 056108 Published: MAY 2014

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Investigation of a transient energetic charge exchange flux enhancement ('spike-on-tail') observed in neutral-beam-heated H-mode discharges in the National Spherical Torus Experiment

By: Medley, S. S.; Kolesnichenko, Ya. I.; Yakovenko, Yu. V.; Bell, RE (Bell, R. E.) ; Bortolon, A (Bortolon, A.); Crocker, NA (Crocker, N. A.); Darrow, DS (Darrow, D. S.); Diallo, A (Diallo, A.); Domier, CW (Domier, C. W.); Fonck, RJ (Fonck, R. J.); Fredrickson, ED (Fredrickson, E. D.); Gerhardt, SP (Gerhardt, S. P.); Gorelenkov, NN (Gorelenkov, N. N.); Kramer, GJ (Kramer, G. J.); Kubota, S (Kubota, S.); LeBlanc, BP (LeBlanc, B. P.); Lee, KC (Lee, K. C.); Mazzucato, E (Mazzucato, E.) [1]; McKee, GR (McKee, G. R.); Podesta, M (Podesta, M.); Ren, Y (Ren, Y.); Roquemore, AL (Roquemore, A. L.) [1]; Smith, DR (Smith, D. R.); Stutman, D (Stutman, D.); Tritz, K (Tritz, K.); White, RB (White, R. B.)

NUCLEAR FUSION Volume: 52 Issue: 1 Article Number: 013014 Published: JAN 2012

FI=4.090, WOS:000300625700016

17.

OPTIONS FOR A STEADY-STATE COMPACT FUSION NEUTRON SOURCE

By: Gryaznevich, M. P.; Sykes, A.; Kingham, D.; McNamara, B (McNamara, B.); Voss, G (Voss, G.); Kuteev, BV (Kuteev, B. V.); Dnestrovskii, AY (Dnestrovskii, A. Yu.); Golikov, AA (Golikov, A. A.)

Conference: 15th International Conference on Emerging Nuclear Energy Systems Location: San Francisco, CA Date: MAY 15-19, 2011

FUSION SCIENCE AND TECHNOLOGY Volume: 61 Issue: 1T Pages: 89-94 Published: JAN 2012

FI=0.517, WOS:000299608100016

18.

Linear microstability analysis of a low-Z impurity doped tokamak plasma

By: Romanelli, M.; Szepesi, G.; Peeters, A. G.; Apicella, ML (Apicella, M. L.); Marinucci, M (Marinucci, M.) ; Mazzotta, C (Mazzotta, C.); Mazzitelli, G (Mazzitelli, G.); Frigione, D (Frigione, D.)

NUCLEAR FUSION Volume: 51 Issue: 10 Article Number: 103008 Published: OCT 2011

FI=4.090, WOS:000296603800010

19.

A survey of electron Bernstein wave heating and current drive potential for spherical tokamaks

By: Urban, Jakub; Decker, Joan; Peysson, Yves; Preinhaelter, J (Preinhaelter, Josef); Shevchenko, V (Shevchenko, Vladimir); Taylor, G (Taylor, Gary); Vahala, L (Vahala, Linda); Vahala, G (Vahala, George)

NUCLEAR FUSION Volume: 51 Issue: 8 Article Number: 083050 Published: AUG 2011

FI=4.090, WOS:000294729400051

20.

Recent progress towards an advanced spherical torus operating point in NSTX

By: Gerhardt, S. P.; Gates, D. A.; Kaye, S. M.; Maingi, R (Maingi, R.); Menard, JE (Menard, J. E.) [1]; Sabbagh, SA (Sabbagh, S. A.); Soukhanovskii, V (Soukhanovskii, V.) ; Bell, MG (Bell, M. G.) ; Bell, RE (Bell, R. E.); Canik, JM (Canik, J. M.) ; Fredrickson, E (Fredrickson, E.); Kaita, R (Kaita, R.); Kolemen, E (Kolemen, E.); Kugel, H (Kugel, H.); Le Blanc, BP (Le Blanc, B. P.); Mastrovito, D (Mastrovito, D.); Mueller, D (Mueller, D.); Yuh, H (Yuh, H.)

NUCLEAR FUSION Volume: 51 Issue: 7 Article Number: 073031 Published: JUL 2011

FI=4.090, WOS:000291933300033

21.

Plasma regimes and research goals of JT-60SA towards ITER and DEMO

By: Kamada, Y.; Barabaschi, P.; Ishida, S.; Ide, S (Ide, S.); Lackner, K (Lackner, K.); Fujita, T (Fujita, T.); Bolzonella, T (Bolzonella, T.); Suzuki, T (Suzuki, T.); Matsunaga, G (Matsunaga, G.); Yoshida, M (Yoshida, M.); Shinohara, K (Shinohara, K.); Urano, H (Urano, H.); Nakano, T (Nakano, T.); Sakurai, S (Sakurai, S.); Kawashima, H (Kawashima, H.) Group Author(s): JT-60SA Team

NUCLEAR FUSION Volume: 51 Issue: 7 Article Number: 073011 Published: JUL 2011

FI=4.090, WOS:000291933300013

22.

Universal asymptotics of poloidal spectra of magnetic perturbations of saddle coils in tokamaks

By: Abdullaev, S. S.

PHYSICS OF PLASMAS Volume: 18 Issue: 2 Article Number: 020701 Published: FEB 2011

FI=2.147, WOS:000287812900001

23.

First real-time detection of surface dust in a tokamak

By: Skinner, C. H.; Rais, B.; Roquemore, A. L.; Kugel, HW (Kugel, H. W.); Marsala, R (Marsala, R.); Provost, T (Provost, T.)

Conference: 18th Topical Conference on High-Temperature Plasma Diagnostics Location: Wildwood, NJ Date: MAY 16-20, 2010

REVIEW OF SCIENTIFIC INSTRUMENTS Volume: 81 Issue: 10 Article Number: 10E102 Published: OCT 2010

FI=1.601, WOS:000283754000161

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First observation of ELM pacing with vertical jogs in a spherical torus

By: Gerhardt, S. P.; Ahn, J-W.; Canik, J. M.; Maingi, R (Maingi, R.); Bell, R (Bell, R.); Gates, D (Gates, D.); Goldston, R (Goldston, R.); Hawryluk, R (Hawryluk, R); Le Blanc, BP (Le Blanc, B. P.); Menard, J (Menard, J); Sontag, AC (Sontag, A. C.); Sabbagh, S (Sabbagh, S.); Tritz, K (Tritz, K.)

Conference: 12th International Workshop on H-mode Physics and Transport Barriers Location: Plasma Phys Lab, Princeton, NJ Date: SEP 30-OCT 02, 2009

NUCLEAR FUSION Volume: 50 Issue: 6 Special Issue: SI Article Number: 064015 Published: JUN 2010

FI=3.303, WOS:000278147700016

25.

Plasma response to lithium-coated plasma-facing components in the National Spherical Torus Experiment

By: Bell, M. G.; Kugel, H. W.; Kaita, R.; Zakharov, LE (Zakharov, L. E.); Schneider, H (Schneider, H); LeBlanc, BP (LeBlanc, B. P.); Mansfield, D (Mansfield, D); Bell, RE (Bell, R. E); Maingi, R (Maingi, R); Ding, S (Ding, S); Kaye, SM (Kaye, S. M); Paul, SF (Paul, S. F); Gerhardt, SP (Gerhardt, S. P); Canik, JM (Canik, J. M); Hosea, JC (Hosea, J. C); Taylor, G (Taylor, G.)

Group Author(s): NSTX Research Team

Conference: 36th European-Physical-Society Conference on Plasma Physics Location: Natl Palace Culture, Sofia, BULGARIA Date: JUN 29-JUL 03, 2009

PLASMA PHYSICS AND CONTROLLED FUSION Volume: 51 Issue: 12 Article Number: 124054 Published: DEC 2009

FI= 2.409, WOS:000271940800065

[35] **C. M. Ticoş, Z. Wang, G. A. Wurden, J. L. Kline, D. S. Montgomery,**

Plasma Jet Acceleration of Dust Particles to Hypervelocities

Physics of Plasmas 15, 103701/1-9 (2008).

Nr. citations: 10

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Motion characteristics of coaxial gun discharge plasma current sheet

By: Qi Liang-Wen; Zhao Chong-Xiao; Yan Hui-Jie; Wang, TT (Wang Ting-Ting); Ren, CS (Ren Chun-Sheng).

ACTA PHYSICA SINICA Volume: 68 Issue: 3 Article Number: 035203 Published: JAN 31 2019

FI=0.644, WOS:000458164600021

2.

Optical emission spectroscopy investigation of the current sheet in a small-bore parallel-plate electromagnetic plasma accelerator

By: Liu, Shuai; Huang, Yizhi; Zhang, Yongpeng; Zhan, W (Zhan, Wei); Yu, MH (Yu, Menghan); Yang, LJ (Yang, Lanjun)

PHYSICS OF PLASMAS Volume: 25 Issue: 11 Article Number: 113505 Published: NOV 2018

FI=1.913, WOS:000451734600050

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Current sheet characteristics of a parallel-plate electromagnetic plasma accelerator operated in gas-prefilled mode

By: Liu, Shuai; Huang, Yizhi; Guo, Haishan; Lin, TY (Lin, Tianyu); Huang, D (Huang, Dong); Yang, LJ (Yang, Lanjun)

PHYSICS OF PLASMAS Volume: 25 Issue: 5 Article Number: 053506 Published: MAY 2018

FI=1.913, WOS:000433961800071

4.

Estimation of the plasma sheath thickness and particle number density in the axial phase of plasma coaxial accelerator

By: Al-Halim, Mohamed A. Abd

VACUUM Volume: 138 Special Issue: SI Pages: 80-86 Published: APR 2017

FI=2.067, WOS:000395611600011

5.

Experimental study on coaxial gun pulse discharge plasma density change in transport process

By: Yang Liang; Zhang Jun-Long; Yan Hui-Jie; Hua, Y (Hua Yue); Ren, CS (Ren Chun-Sheng)

ACTA PHYSICA SINICA Volume: 66 Issue: 5 Article Number: 055203 Published: MAR 5 2017

FI=0.669, WOS:000398071700026

6.

Imaging free-falling particles for multipoint measurement of plasma fluctuations

By: Roberts, T. M.; Mauel, M. E.; Abler, M. C.; Makansi, BK (Makansi, B. K.)

REVIEW OF SCIENTIFIC INSTRUMENTS Volume: 86 Issue: 8 Article Number: 083510 Published: AUG 2015

FI=1.336, WOS:000360648800029

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Influence of discharge parameters on blow-by in a coaxial plasma gun

By: Zhang Jun-Long; Yang Liang; Yan Hui-Jie; Hua, Y (Hua Yue); Ren, CS (Ren Chun-Sheng)

ACTA PHYSICA SINICA Volume: 64 Issue: 7 Article Number: 075201 Published: APR 5 2015

FI=0.677, WOS:000354058800023

8.

Acceleration of dust grains by means of the high energy ion beam

By: Khorashadizadeh, S. M.; Sabzinezhad, F.; Niknam, A. R.

PHYSICS LETTERS A Volume: 377 Issue: 37 Pages: 2368-2372 Published: NOV 8 2013

FI=1.626, WOS:000324850400020

9.

On the feasibility of electro-optical detection of dust-impact ionization in tokamaks

By: Castaldo, C.; Ratynskaia, S.; De Angeli, M.; de Angelis, U (de Angelis, U.)

PLASMA PHYSICS AND CONTROLLED FUSION Volume: 52 Issue: 10 Article Number: 105003 Published: OCT 2010

FI=2.466, WOS:000283391000011

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On the Generation of Laser-Induced Dust Structures in Gas-Plasma Flows of Complex Chemical and Ionization Composition

By: Loktionov, E. Yu.; Protasov, Yu. Yu.

DOKLADY PHYSICS Volume: 55 Issue: 7 Pages: 313-316 Published: JUL 2010

FI=0.347, WOS:000281040600001

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Dust as a Versatile Matter for High-Temperature Plasma Diagnostic

Review of Scientific Instruments 79,10F333/1-3 (2008).

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Measurement of incandescent microparticle acceleration using stereoscopic imaging

By: Chu, Pinghan; Wolfe, Bradley T.; Wang, Zhehui

Conference: 22nd Biannual Topical Conference on High-Temperature Plasma Diagnostics (HTPD) Location: Gen Atom, San Diego, CA Date: APR 16-19, 2018

REVIEW OF SCIENTIFIC INSTRUMENTS Volume: 89 Issue: 10 Article Number: 10K101 Published: OCT 2018

FI=1.587, WOS:000449144500240

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Novel plasma source for safe beryllium spectral line studies in the presence of beryllium dust

By: Stankov, B. D.; Vinic, M.; Bozovic, M. R. Gavrilovic; Ivkovic, M (Ivkovic, M.)

REVIEW OF SCIENTIFIC INSTRUMENTS Volume: 89 Issue: 5 Article Number: 053108 Published: MAY 2018

FI=1.587, WOS:000433962700022

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Modelling of tungsten and beryllium dust in ITER

By: Bacharis, M.; Coppins, M.; Fundamenski, W.; Allen, JE (Allen, J. E.)

PLASMA PHYSICS AND CONTROLLED FUSION Volume: 54 Issue: 8 Article Number: 085010 Published: AUG 2012

FI=2.369, WOS:000306423700013

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Dust in magnetic fusion devices

By: Krasheninnikov, S. I.; Smirnov, R. D.; Rudakov, D. L.

Conference: 15th Workshop on MHD Stability Control - 3D Magnetic Field Effects in MHD Control Location: Univ Wisconsin, Madison, WI Date: NOV 15-17, 2010

PLASMA PHYSICS AND CONTROLLED FUSION Volume: 53 Issue: 8 Article Number: 083001 Published: AUG 2011
FI=2.731, WOS:000291207300004

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Diagnostics of mobile dust in scrape-off layer plasmas

By: Ratynskaia, S.; Castaldo, C.; Bergsaker, H.; Rudakov, D (Rudakov, D.)

Conference: 15th International Congress on Plasma Physics (ICPP) / 13th Latin American Workshop on Plasma Physics (LAWPP) Location: Santiago, CHILE Date: AUG 08-13, 2010

PLASMA PHYSICS AND CONTROLLED FUSION Volume: 53 Issue: 7 Article Number: 074009 Published: JUL 2011
FI=2.731, WOS:000291034500010

6.

Dust studies in DIII-D and TEXTOR

By: Rudakov, D. L.; Litnovsky, A.; West, W. P.; Yu, JH (Yu, J. H.); Boedo, JA (Boedo, J. A.); Bray, BD (Bray, B. D.); Brezinsek, S (Brezinsek, S.); Brooks, NH (Brooks, N. H.); Fenstermacher, ME (Fenstermacher, M. E.); Groth, M (Groth, M.); Hollmann, EM (Hollmann, E. M.); Huber, A (Huber, A.); Hyatt, AW (Hyatt, A. W.); Krasheninnikov, SI (Krasheninnikov, S. I.); Lasnier, CJ (Lasnier, C. J.); McLean, AG (McLean, A. G.); Moyer, RA (Moyer, R. A.); Pigarov, AY (Pigarov, A. Yu.); Philipps, V (Philipps, V.); Pospieszczyk, A (Pospieszczyk, A.); Smirnov, RD (Smirnov, R. D.); Sharpe, JP (Sharpe, J. P.); Solomon, WM (Solomon, W. M.); Watkins, JG (Watkins, J. G.); Wong, CPC (Wong, C. P. C.)

NUCLEAR FUSION Volume: 49 Issue: 8 Article Number: 085022 Published: AUG 2009
FI=4.270, WOS:000268936800022

7.

Three-dimensional reconstruction of dust particle trajectories in the NSTX

By: Boeglin, W. U.; Roquemore, A. L.; Maqueda, R.

Conference: 17th Topical Conference on High-Temperature Plasma Diagnostics Location: Albuquerque, NM Date: 2008

REVIEW OF SCIENTIFIC INSTRUMENTS Volume: 79 Issue: 10 Article Number: 10F334 Published: OCT 2008

FI= 1.738, WOS:000260573500253

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Dust measurements in tokamaks (invited)

By: Rudakov, D. L.; Yu, J. H.; Boedo, J. A.; Hollmann, EM (Hollmann, E. M.); Krasheninnikov, SI (Krasheninnikov, S. I.); Moyer, RA (Moyer, R. A.); Muller, SH (Muller, S. H.); Pigarov, AY (Pigarov, A. Yu.); Rosenberg, M (Rosenberg, M.); Smirnov, RD (Smirnov, R. D.); West, WP (West, W. P.); Boivin, RL (Boivin, R. L.); Bray, BD (Bray, B. D.); Brooks, NH (Brooks, N. H.); Hyatt, AW (Hyatt, A. W.); Wong, CPC (Wong, C. P. C.); Roquemore, AL (Roquemore, A. L.); Skinner, CH (Skinner, C. H.); Solomon, WM (Solomon, W. M.); Ratynskaia, S (Ratynskaia, S.); Fenstermacher, ME (Fenstermacher, M. E.); Groth, M (Groth, M.); Lasnier, CJ (Lasnier, C. J.); McLean, AG (McLean, A. G.); Stangeby, PC (Stangeby, P. C.)

Conference: 17th Topical Conference on High-Temperature Plasma Diagnostics Location: Albuquerque, NM Date: 2008

REVIEW OF SCIENTIFIC INSTRUMENTS Volume: 79 Issue: 10 Article Number: 10F303 Published: OCT 2008

FI= 1.738, WOS:000260573500222

[37] C. M. Ticoş, Z. Wang, G. A. Wurden, J. L. Kline, D. S. Montgomery, L. A. Dorf, P. K. Shukla
Experimental Demonstration of Plasma Drag Acceleration of a Dust Cloud to Hypervelocities
***Physical Review Letters* 100, 155002 (2008).**

Nr. citations: 14

1.

Measurement of plasma stream velocity in a pulsed plasma accelerator

By: Talukdar, N.; Ahmed, A.; Borthakur, S.; Neog, NK (Neog, N. K); Borthakur, TK (Borthakur, T. K); Ghosh, J (Ghosh, J.)

PHYSICS OF PLASMAS Volume: 26 Issue: 6 Article Number: 062711 Published: JUN 2019
FI=1.913, WOS:000474440600028

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THE FIRST SEVENTY VOLUMES OF ROMANIAN REPORTS IN PHYSICS: A BRIEF SURVEY OF THE ROMANIAN PHYSICS COMMUNITY

- By: Vlad, V. I.; Baran, V.; Nicolin, A. I.; Mihalache, D (Mihalache, D.)
 ROMANIAN REPORTS IN PHYSICS Volume: 70 Issue: 1 Article Number: 101 Published: 2018
 FI=1.940, WOS:000429440400002
3.
 Experimental study on coaxial gun pulse discharge plasma density change in transport process
 By: Yang Liang; Zhang Jun-Long; Yan Hui-Jie; Hua, Y (Hua Yue); Ren, CS (Ren Chun-Sheng).
 ACTA PHYSICA SINICA Volume: 66 Issue: 5 Article Number: 055203 Published: MAR 5 2017
 FI=0.669, WOS:000398071700026
4.
 Existing and new applications of micropellet injection (MPI) in magnetic fusion
 By: Wang, Zhehui; Lunsford, Robert; Mansfield, Dennis K.; Nichols, JH (Nichols, Jacob H.)
 JOURNAL OF PLASMA PHYSICS Volume: 82 Part: 2 Published: APR 2016
 FI=1.160, WOS:000376015000023
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 Imaging free-falling particles for multipoint measurement of plasma fluctuations
 By: Roberts, T. M.; Mauel, M. E.; Abler, M. C.; Makansi, BK (Makansi, B. K.)
 REVIEW OF SCIENTIFIC INSTRUMENTS Volume: 86 Issue: 8 Article Number: 083510 Published: AUG 2015
 FI=1.336, WOS:000360648800029
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 Influence of discharge parameters on blow-by in a coaxial plasma gun
 By: Zhang Jun-Long; Yang Liang; Yan Hui-Jie; Hua, Y (Hua Yue); Ren, CS (Ren Chun-Sheng)
 ACTA PHYSICA SINICA Volume: 64 Issue: 7 Article Number: 075201 Published: APR 5 2015
 FI=0.677, WOS:000354058800023
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 Acceleration of dust grains by means of the high energy ion beam
 By: Khorashadizadeh, S. M.; Sabzinezhad, F.; Niknam, A. R.
 PHYSICS LETTERS A Volume: 377 Issue: 37 Pages: 2368-2372 Published: NOV 8 2013
 FI=1.626, WOS:000324850400020
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 The effect of dust grain size on the floating potential of dust in a collisionless plasma
 By: Willis, C. T. N.; Coppins, M.; Bacharis, M.; Allen, JE (Allen, J. E.)
 PLASMA SOURCES SCIENCE & TECHNOLOGY Volume: 19 Issue: 6 Article Number: 065022 Published: DEC 2010
 FI=2.218, WOS:000284689600022
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 Polarization-force-induced dust grain acceleration and intrinsic magnetization of dusty plasmas
 By: Shukla, N.; Shukla, P. K.
 JOURNAL OF PLASMA PHYSICS Volume: 76 Pages: 677-680 Part: 5 Published: OCT 2010
 FI=1.078, WOS:000282397900003
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 On the feasibility of electro-optical detection of dust-impact ionization in tokamaks
 By: Castaldo, C.; Ratynskaia, S.; De Angeli, M.; de Angelis, U (de Angelis, U.)
 PLASMA PHYSICS AND CONTROLLED FUSION Volume: 52 Issue: 10 Article Number: 105003 Published: OCT 2010
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 A light-erosion method for high-pressure dust-gas-plasma flows generation
 By: Loktionov, E. Yu; Protasov, Yu Yu
 INSTRUMENTS AND EXPERIMENTAL TECHNIQUES Volume: 53 Issue: 4 Pages: 601-606 Published: JUL 2010
 FI=0.357, WOS:000281671500023
12.
 Technical Summary of the First US Plasma Jet Workshop
 By: Hsu, Scott C.
 JOURNAL OF FUSION ENERGY Volume: 28 Issue: 3 Pages: 246-257 Published: SEP 2009
 FI=0.784, WOS:000268120900004
13.
 Colloquium: Fundamentals of dust-plasma interactions
 By: Shukla, P. K.; Eliasson, B.

REVIEWS OF MODERN PHYSICS Volume: 81 Issue: 1 Pages: 25-44 Published: JAN-MAR 2009
FI=33.145, WOS:000264764600002

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Dust measurements in tokamaks (invited)

By: Rudakov, D. L.; Yu, J. H.; Boedo, J. A.; Hollmann, EM (Hollmann, E. M); Krasheninnikov, SI (Krasheninnikov, S. I.); Moyer, RA (Moyer, R. A.); Muller, SH (Muller, S. H.); Pigarov, AY (Pigarov, A. Yu.); Rosenberg, M (Rosenberg, M); Smirnov, RD (Smirnov, R. D.); West, WP (West, W. P.); Boivin, RL (Boivin, R. L.); Bray, BD (Bray, B. D.); Brooks, NH (Brooks, N. H.); Hyatt, AW (Hyatt, A. W.); Wong, CPC (Wong, C. P. C.); Roquemore, AL (Roquemore, A. L.); Skinner, CH (Skinner, C. H.); Solomon, WM (Solomon, W. M.); Ratynskaia, S (Ratynskaia, S.); Fenstermacher, ME (Fenstermacher, M. E.); Groth, M (Groth, M.); Lasnier, CJ (Lasnier, C. J.); McLean, AG (McLean, A. G.); Stangeby, PC (Stangeby, P. C.)

Conference: 17th Topical Conference on High-Temperature Plasma Diagnostics Location: Albuquerque, NM Date: 2008

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FI= 1.738, WOS:000260573500222

[38] **C. M. Ticos, Z. Wang, G. A. Wurden,**
Hypervelocity Dust Storm Launched with a Coaxial Plasma Gun
***IEEE Transactions on Plasma Sciences* 36 (5), 2770-2774 (2008)**

Nr. citations: 1

Experimental study on coaxial gun pulse discharge plasma density change in transport process

By: Yang Liang; Zhang Jun-Long; Yan Hui-Jie; Hua, Y (Hua Yue); Ren, CS (Ren Chun-Sheng).

ACTA PHYSICA SINICA Volume: 66 Issue: 5 Article Number: 055203 Published: MAR 5 2017

FI=0.669, WOS:000398071700026

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Nanostructured PZT Type Thin Films Prepared by the Thermionic Vacuum Arc Method
***Journal of Optoelectronics and Advanced Materials* 10, 3041 (2008).**

Nr. citations: 2

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PZT FILMS PREPARED BY TVA AND PLD FROM PbO₂:TiO₂:ZrO₂ (1:1:1) NANOCERAMIC TARGETS

By: Savastru, D.; Tenciu, D.; Lungu, C. P.; Viespe, C (Viespe, C.); Grigoriu, C (Grigoriu, C.); Iordanescu, R (Iordanescu, R.); Feraru, ID (Feraru, I. D.); Ionescu, V (Ionescu, V.); Monnereau, O (Monnereau, O); Tortet, L (Tortet, L.); Notonier, R (Notonier, R.); Grigorescu, CEA (Grigorescu, C. E. A.)

DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES Volume: 6 Issue: 1 Pages: 207-211 Published: JAN-MAR 2011

FI=1.200, WOS:000289716200026

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Thermionic vacuum Arc deposited Cu and Co nanostructured multilayers: synthesis and characterization

By: Rasleanu, D.; Ilie, D.; Ionescu, V.; Mocanu, V (Mocanu, V.); Muresan, MG (Muresan, M. G.); Oancea-Stanescu, IM (Oancea-Stanescu, I. M.); Ciupina, V (Ciupina, V.); Prodan, G (Prodan, G.); Vasile, E (Vasile, E.); Mustata, I (Mustata, I.); Zaroschi, V (Zaroschi, V.); Lungu, CP (Lungu, C. P.)

JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 12 Issue: 4 Pages: 834-838 Published: APR 2010

FI=0.412, WOS:000278330500009

[40] **Zhehui Wang, Charles H. Skinner, Gian Luca Delzanno, Sergei I. Krasheninnikov, Gianni M. Lapenta, Alexander Yu. Pigarov, Padma K. Shukla, Roman D. Smirnov, Catalin M. Ticos, W. Phil West**
PHYSICS OF DUST IN MAGNETIC FUSION DEVICES
New Aspects of Plasma Physics, (Singapore: World Scientific Publishing) pp 394–475 (2008)
https://doi.org/10.1142/9789812799784_0018
ISBN-13978-981-279-977-7

Nr. citations: 7

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Dust in magnetic fusion devices

By: Krasheninnikov, S. I.; Smirnov, R. D.; Rudakov, D. L.

Conference: 15th Workshop on MHD Stability Control - 3D Magnetic Field Effects in MHD Control Location: Univ Wisconsin, Madison, WI Date: NOV 15-17, 2010

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FI=2.731, WOS:000291207300004

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Dust measurements in tokamaks (invited)

By: Rudakov, D. L.; Yu, J. H.; Boedo, J. A.; Hollmann, EM (Hollmann, E. M.); Krasheninnikov, SI (Krasheninnikov, S. I.); Moyer, RA (Moyer, R. A.); Muller, SH (Muller, S. H.); Pigarov, AY (Pigarov, A. Yu.); Rosenberg, M (Rosenberg, M.); Smirnov, RD (Smirnov, R. D.); West, WP (West, W. P.); Boivin, RL (Boivin, R. L.); Bray, BD (Bray, B. D.); Brooks, NH (Brooks, N. H.); Hyatt, AW (Hyatt, A. W.); Wong, CPC (Wong, C. P. C.); Roquemore, AL (Roquemore, A. L.); Skinner, CH (Skinner, C. H.); Solomon, WM (Solomon, W. M.); Ratynskaia, S (Ratynskaia, S.); Fenstermacher, ME (Fenstermacher, M. E.); Groth, M (Groth, M.); Lasnier, CJ (Lasnier, C. J.); McLean, AG (McLean, A. G.); Stangeby, PC (Stangeby, P. C.)

Conference: 17th Topical Conference on High-Temperature Plasma Diagnostics Location: Albuquerque, NM Date: 2008

REVIEW OF SCIENTIFIC INSTRUMENTS Volume: 79 Issue: 10 Article Number: 10F303 Published: OCT 2008

FI= 1.738, WOS:000260573500222

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By: Sun, Zhen; Baldwin, Jon K.; Xu, Wei; Wang, ZH (Wang, Zhehui); Hu, JS (Hu, Jiansheng); Maingi, R (Maingi, Rajesh); Romero-Talamas, C (Romero-Talamas, Carlos); Oschwald, DM (Oschwald, David M.)

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Sponsor(s): Appl Nanotools; DtAcq Solut; Palomar Sci Instruments; Sydor Technologies; TAE Technologies; Telops

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By: Wang, Zhehui; Lunsford, Robert; Mansfield, Dennis K.; Nichols, JH (Nichols, Jacob H.)

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By: Sun, Zhen; Baldwin, Jon K.; Xu, Wei; Wang, ZH (Wang, Zhehui); Hu, JS (Hu, Jiansheng); Maingi, R (Maingi, Rajesh); Romero-Talamas, C (Romero-Talamas, Carlos); Oschwald, DM (Oschwald, David M.)

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