

Catalin Ticos

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Irradiation of W and K-Doped W Laminates without or with Cu, V, Ti Interlayers under a Pulsed 6 MeV Electron Beam. <i>Materials</i> , 2022, 15, 956.	2.9	2
2	Target Characteristics Used in Laser-Plasma Acceleration of Protons Based on the TNSA Mechanism. <i>Frontiers in Physics</i> , 2022, 10, .	2.1	0
3	Rotation of a strongly coupled dust cluster in plasma by the torque of an electron beam. <i>Physical Review E</i> , 2021, 103, 023210.	2.1	3
4	Pushing microscopic matter in plasma with an electron beam. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 025003.	2.1	6
5	Influence of electron irradiation and rapid thermal annealing on photoluminescence from GaAsNBi alloys. <i>Applied Physics Letters</i> , 2020, 117, 142106.	3.3	5
6	Overview of ELI-NP status and laser commissioning experiments with 1 PW and 10 PW class-lasers. <i>Journal of Instrumentation</i> , 2020, 15, C09053-C09053.	1.2	11
7	Optimizing direct laser-driven electron acceleration and energy gain at ELI-NP. <i>European Physical Journal D</i> , 2020, 74, 1.	1.3	2
8	Modeling the electron acceleration in relativistic channels for space irradiation applications. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 124001.	2.1	2
9	Complementary dosimetry for a 6 MeV electron beam. <i>Results in Physics</i> , 2019, 14, 102377.	4.1	10
10	Kinetic effects in a plasma crystal induced by an external electron beam. <i>Physics of Plasmas</i> , 2019, 26, 043702.	1.9	8
11	Cracks and nanodroplets produced on tungsten surface samples by dense plasma jets. <i>Applied Surface Science</i> , 2018, 434, 1122-1128.	6.1	6
12	Irradiation of nuclear materials with laser-plasma filaments produced in air and deuterium by terrawatt (TW) laser pulses. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 025302.	2.8	2
13	RADIOLOGICAL SAFETY ASSESSMENT FOR THE EXPERIMENTAL AREA OF A HYPER-INTENSE LASER WITH PEAK POWER OF 1PW CETAL. <i>Radiation Protection Dosimetry</i> , 2017, 175, 104-109.	0.8	2
14	A pulsed plasma broom™ for dusting off surfaces on Mars. <i>New Journal of Physics</i> , 2017, 19, 063006.	2.9	11
15	Precession of cylindrical dust particles in the plasma sheath. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	11
16	Stepped heating procedure for experimental SAR evaluation of ferrofluids. <i>European Physical Journal E</i> , 2015, 38, 57.	1.6	13
17	Collimated electron beam accelerated at 12 kV from a Penning discharge. <i>Review of Scientific Instruments</i> , 2015, 86, 013301.	1.3	5
18	Experimental demonstration of Martian soil simulant removal from a surface using a pulsed plasma jet. <i>Review of Scientific Instruments</i> , 2015, 86, 033509.	1.3	9

#	ARTICLE	IF	CITATIONS
19	Periodic striations on beryllium and tungsten surfaces by indirect femtosecond laser irradiation. Applied Physics Letters, 2014, 104, 101604.	3.3	5
20	Thermal phenomena induced in a small tungsten sample during irradiation with a few MeV electron beam: Experiment versus simulations. Nuclear Instruments & Methods in Physics Research B, 2014, 337, 17-20.	1.4	10
21	Thermal phenomena induced in a small graphite sample during irradiation with a few MeV electron beam: Experiment versus theoretical simulations. Nuclear Instruments & Methods in Physics Research B, 2014, 318, 232-236.	1.4	5
22	The behavior of W, Be and C layers in interaction with plasma produced by terawatt laser beam pulses. Vacuum, 2014, 110, 207-212.	3.5	14
23	A 1-D dusty plasma photonic crystal. Journal of Applied Physics, 2013, 114, 113305.	2.5	10
24	Optical Spectrum Analysis of Chaotic Synchronization in a Bidirectional Coupled Semiconductor Laser System. , 2013, , 425-429.		0
25	High-speed imaging of dust particles in plasma. Journal of Plasma Physics, 2013, 79, 273-285.	2.1	5
26	Generation of dust projectiles passing over an obstacle in the plasma sheath. Physics of Plasmas, 2012, 19, 083701.	1.9	2
27	Simultaneous carbon and tungsten thin film deposition using two thermionic vacuum arcs. Thin Solid Films, 2011, 519, 4074-4077.	1.8	19
28	Experimental control of power dropouts by current modulation in a semiconductor laser with optical feedback. Physica Scripta, 2011, 83, 055402.	2.5	1
29	Observation of the Evolution of Supersonic Plasma Jet Launched by a Coaxial Gun. IEEE Transactions on Plasma Science, 2011, 39, 2388-2389.	1.3	4
30	Dust Accelerators And Their Applications In High-Temperature Plasmas. , 2011, , .		1
31	Levitated dust particles subjected to plasma jet. Journal of Plasma Physics, 2010, 76, 501-511.	2.1	3
32	Removal of floating dust in glow discharge using plasma jet. Applied Physics Letters, 2010, 97, .	3.3	10
33	Experiments with an rf dusty plasma and an external plasma jet. , 2010, , .		0
34	Dust crystal interaction with plasma flows. , 2009, , .		0
35	Dust particles interaction with plasma jet. , 2009, , .		0
36	Overview of results from the National Spherical Torus Experiment (NSTX). Nuclear Fusion, 2009, 49, 104016.	3.5	41

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37	Hypervelocity Dust Storm Launched With a Coaxial Plasma Gun. IEEE Transactions on Plasma Science, 2008, 36, 2770-2774.	1.3	3
38	Plasma jet acceleration of dust particles to hypervelocities. Physics of Plasmas, 2008, 15, .	1.9	24
39	A New Parameter Regime for Dust in Plasma: the Case of Dense and Supersonic Plasma Flows. AIP Conference Proceedings, 2008, , .	0.4	0
40	Dust as a versatile matter for high-temperature plasma diagnostic. Review of Scientific Instruments, 2008, 79, 10F333.	1.3	11
41	Applications and Progress of Dust Injection to Fusion Energy. AIP Conference Proceedings, 2008, , .	0.4	3
42	Observation of Hypervelocity Dust in Dense Supersonic Plasma Flows: Physics and Applications. , 2008, , .		0
43	Experimental Demonstration of Plasma-Drag Acceleration of a Dust Cloud to Hypervelocities. Physical Review Letters, 2008, 100, 155002.	7.8	28
44	Dust trajectories and diagnostic applications beyond strongly coupled dusty plasmas. Physics of Plasmas, 2007, 14, 103701.	1.9	19
45	Hypervelocity Dust Storm Launched with a Coaxial Plasma Gun. , 2007, , .		0
46	M:N phase synchronization of LFF in an chaotic ECSL system. , 2007, , .		0
47	Hypervelocity dust storm launched with a coaxial plasma gun. , 2007, , .		0
48	Microparticle probes for laboratory plasmas. IEEE Transactions on Plasma Science, 2006, 34, 242-248.	1.3	15
49	Power dropout control by optical phase modulation in a chaotic semiconductor laser. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 2486.	2.1	1
50	Plasmadynamic hypervelocity dust injector for the National Spherical Torus Experiment. Review of Scientific Instruments, 2006, 77, 10E304.	1.3	22
51	Imaging system for hypervelocity dust injection diagnostic on NSTX. Review of Scientific Instruments, 2006, 77, 10E517.	1.3	7
52	Plasma dragged microparticles as a method to measure plasma flows. Physics of Plasmas, 2006, 13, 103501.	1.9	22
53	Oscillations of Dust Particles Due to Ion Wake Fields: An Experimental Demonstration. Physica Scripta, 2004, T107, 117.	2.5	4
54	Pressure triggered collective oscillations of a dust crystal in a capacitive RF plasma. Plasma Physics and Controlled Fusion, 2004, 46, B293-B299.	2.1	8

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55	The charge on falling dust particles in a RF plasma with DC negative bias. Plasma Sources Science and Technology, 2004, 13, 395-402.	3.1	26
56	Experimental wake-induced oscillations of dust particles in a rf plasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 319, 504-509.	2.1	9
57	Experimental Chua-plasma phase synchronization of chaos. Physical Review E, 2003, 68, 025202.	2.1	20
58	Phase Synchronization in a Plasma Discharge Driven by a Chaotic Signal. AIP Conference Proceedings, 2003, , .	0.4	2
59	Pacing a chaotic plasma with a music signal. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 284, 259-265.	2.1	5
60	PHASE SYNCHRONIZATION OF CHAOS IN A PLASMA DISCHARGE TUBE. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2000, 10, 2551-2563.	1.7	53
61	Experimental Real-Time Phase Synchronization of a Paced Chaotic Plasma Discharge. Physical Review Letters, 2000, 85, 2929-2932.	7.8	123
62	Laser method for corneal structure investigation. , 1998, 3405, 665.		0
63	Unresonant interaction of laser beams with microdroplets. Journal of the European Optical Society-Rapid Publications, 0, 7, .	1.9	9