

Stefan A Irimiciuc

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51 papers	278 citations	10 h-index	14 g-index
65 ext. papers	419 ext. citations	3.2 avg, IF	3.8 L-index

#	Paper	IF	Citations
51	Target properties [Plasma dynamics relationship in laser ablation of metals: Common trends for fs, ps and ns irradiation regimes. <i>Applied Surface Science</i> , 2020 , 506, 144926	6.7	21
50	Langmuir probe investigation of transient plasmas generated by femtosecond laser ablation of several metals: Influence of the target physical properties on the plume dynamics. <i>Applied Surface Science</i> , 2017 , 417, 108-118	6.7	20
49	Dispersive effects in laser ablation plasmas. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 116202	1.4	20
48	Laser ablation of (GeSe ₂) _{100-x} (Sb ₂ Se ₃) _x chalcogenide glasses: Influence of the target composition on the plasma plume dynamics. <i>Applied Surface Science</i> , 2017 , 418, 594-600	6.7	19
47	Experimental and theoretical aspects of a laser produced plasma. <i>Physics of Plasmas</i> , 2014 , 21, 093509	2.1	18
46	A compact non-differential approach for modeling laser ablation plasma dynamics. <i>Journal of Applied Physics</i> , 2017 , 121, 083301	2.5	16
45	On the interaction between two fireballs in low-temperature plasma. <i>Physics of Plasmas</i> , 2015 , 22, 113511	2.1	16
44	Influence of laser-produced plasma parameters on the deposition process: in situ space- and time-resolved optical emission spectroscopy and fractal modeling approach. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	15
43	On the separation of particle flow during pulse laser deposition of heterogeneous materials - A multi-fractal approach. <i>Powder Technology</i> , 2018 , 339, 273-280	5.2	13
42	Particle distribution in transient plasmas generated by ns-laser ablation on ternary metallic alloys. <i>Applied Physics B: Lasers and Optics</i> , 2019 , 125, 1	1.9	11
41	Synthesis and hydrophilic properties of Mo doped TiO ₂ thin films. <i>Journal of Applied Physics</i> , 2014 , 115, 213501	2.5	10
40	Spectral and electrical diagnosis of complex space-charge structures excited by a spherical grid cathode with orifice. <i>Physica Scripta</i> , 2017 , 92, 044001	2.6	9
39	Influence of rare earth addition in cobalt ferrite thin films obtained by pulsed laser deposition. <i>Ceramics International</i> , 2019 , 45, 20165-20171	5.1	9
38	Multiple structure formation and molecule dynamics in transient plasmas generated by laser ablation of graphite. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020 , 165, 105774	3.1	9
37	A theoretical mathematical model for assessing diclofenac release from chitosan-based formulations. <i>Drug Delivery</i> , 2020 , 27, 1125-1133	7	8
36	Investigation of laser-produced plasma multistructuring by floating probe measurements and optical emission spectroscopy. <i>Plasma Processes and Polymers</i> , 2020 , 17, 2000136	3.4	6
35	Poly(vinyl alcohol boric acid)-Diclofenac Sodium Salt Drug Delivery Systems: Experimental and Theoretical Studies. <i>Journal of Immunology Research</i> , 2020 , 2020, 3124304	4.5	5

34	Investigations of Laser Produced Plasmas Generated by Laser Ablation on Geomaterials. Experimental and Theoretical Aspects. <i>Symmetry</i> , 2019 , 11, 1391	2.7	5
33	Langmuir Probe Technique for Plasma Characterization during Pulsed Laser Deposition Process. <i>Coatings</i> , 2021 , 11, 762	2.9	5
32	Charged Particle Oscillations in Transient Plasmas Generated by Nanosecond Laser Ablation on Mg Target. <i>Symmetry</i> , 2020 , 12, 292	2.7	4
31	A fractal approach of the sound absorption behaviour of materials. Theoretical and experimental aspects. <i>International Journal of Non-Linear Mechanics</i> , 2018 , 103, 128-137	2.8	4
30	Possible Dynamics of Polymer Chains by Means of a Ricatti's Procedure - an Exploitation for Drug Release at Large Time Intervals 2017 , 54, 531-534		4
29	In situ optical and electrical analysis of transient plasmas generated by ns-laser ablation for Ag nanostructured film production. <i>Vacuum</i> , 2021 , 193, 110528	3.7	4
28	A Theoretical Multifractal Model for Assessing Urea Release from Chitosan Based Formulations. <i>Polymers</i> , 2020 , 12,	4.5	3
27	Lorenz Type Behaviors in the Dynamics of Laser Produced Plasma. <i>Symmetry</i> , 2019 , 11, 1135	2.7	3
26	Theoretical model for the diclofenac release from PEGylated chitosan hydrogels. <i>Drug Delivery</i> , 2021 , 28, 261-271	7	3
25	In-Situ Plasma Monitoring during the Pulsed Laser Deposition of Ni60Ti40 Thin Films. <i>Symmetry</i> , 2020 , 12, 109	2.7	2
24	Investigations of Transient Plasma Generated by Laser Ablation of Hydroxyapatite during the Pulsed Laser Deposition Process. <i>Symmetry</i> , 2020 , 12, 132	2.7	2
23	Experimental and Theoretical Studies on the Dynamics of Transient Plasmas Generated by Laser Ablation in Various Temporal Regimes 2017 ,		2
22	In-situ plasma monitoring by optical emission spectroscopy during pulsed laser deposition of doped Lu2O3. <i>Applied Physics B: Lasers and Optics</i> , 2021 , 127, 1	1.9	2
21	Chua's Circuit: Control and Synchronization. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2015 , 25, 1550050	2	1
20	Tailoring pulsed laser deposition of phosphorus doped WOx films from (PO2)4(WO3)4 target by space-resolved optical emission spectroscopy.. <i>Thin Solid Films</i> , 2022 , 742, 139042	2.2	1
19	In Situ Monitoring of Pulsed Laser Annealing of Eu-Doped Oxide Thin Films.. <i>Materials</i> , 2021 , 14,	3.5	1
18	Assessment of Complex System Dynamics via Harmonic Mapping in a Multifractal Paradigm. <i>Mathematics</i> , 2021 , 9, 3298	2.3	1
17	Toward Interactions through Information in a Multifractal Paradigm. <i>Entropy</i> , 2020 , 22,	2.8	1

16	Dynamic Evaluation of Traffic Noise through Standard and Multifractal Models. <i>Symmetry</i> , 2020 , 12, 1857.	2.7	1
15	Non-Linear Behaviors of Transient Periodic Plasma Dynamics in a Multifractal Paradigm. <i>Symmetry</i> , 2020 , 12, 1356	2.7	1
14	A Theoretical Model for Release Dynamics of an Antifungal Agent Covalently Bonded to the Chitosan. <i>Molecules</i> , 2021 , 26,	4.8	1
13	Concentric double hollow grid cathode discharges. <i>International Journal of Mass Spectrometry</i> , 2019 , 436, 83-90	1.9	1
12	Space-and time-resolved optical investigations on ns-laser produced plasmas on various geological samples. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020 , 170, 105904	3.1	0
11	Surface processes on lutetium oxide thin films doped with europium at different concentrations. <i>Optical Materials</i> , 2022 , 123, 111940	3.3	0
10	Insight into the plasma oxidation process during pulsed laser deposition. <i>Plasma Processes and Polymers</i> , e2100102	3.4	0
9	Multifractal Model for Transient Phenomena Analysis in Laser Produced Plasmas. <i>Symmetry</i> , 2021 , 13, 1968	2.7	0
8	Novel Approach for EKG Signals Analysis Based on Markovian and Non-Markovian Fractalization Type in Scale Relativity Theory. <i>Symmetry</i> , 2021 , 13, 456	2.7	0
7	Novel Approach for EEG Signal Analysis in a Multifractal Paradigm of Motions. Epileptic and Eclamptic Seizures as Scale Transitions. <i>Symmetry</i> , 2021 , 13, 1024	2.7	0
6	In situ monitoring of electrical resistivity and plasma during pulsed laser deposition growth of ultra-thin silver films. <i>Journal of Applied Physics</i> , 2021 , 130, 085301	2.5	0
5	Concentric double hollow grid cathode discharges. Spectral investigations and phenomenological approach. <i>Plasma Sources Science and Technology</i> , 2021 , 30, 085006	3.5	0
4	Understanding pulsed laser deposition process of copper halides via plasma diagnostics techniques. <i>Journal of Applied Physics</i> , 2021 , 130, 243302	2.5	0
3	Statistical Methods and Nonlinear Dynamics for Analyzing Brain Activity. Theoretical and Experimental Aspects. <i>Springer Proceedings in Complexity</i> , 2021 , 41-53	0.3	
2	Theoretical Modeling of the Interaction Between Two Complex Space Charge Structures in Low-Temperature Plasma 2018 , 107-124		
1	Non-Linear Effects at Differentiable-Non-Differentiable Scale Transition in Complex Fluids (II). <i>Journal of Computational and Theoretical Nanoscience</i> , 2017 , 14, 3296-3311	0.3	