Stefan A Irimiciuc

List of Publications by Year
in descending order

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61	481	566801	794141
papers	citations	15 h-index	19 g-index

65	65	65	268
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Langmuir probe investigation of transient plasmas generated by femtosecond laser ablation of several metals: Influence of the target physical properties on the plume dynamics. Applied Surface Science, 2017, 417, 108-118.	3.1	29
2	Target properties â€“ Plasma dynamics relationship in laser ablation of metals: Common trends for fs, ps and ns irradiation regimes. Applied Surface Science, 2020, 506, 144926.	3.1	28
3	Langmuir Probe Technique for Plasma Characterization during Pulsed Laser Deposition Process. Coatings, 2021, 11, 762.	1.2	24
4	Dispersive effects in laser ablation plasmas. Japanese Journal of Applied Physics, 2014, 53, 116202.	0.8	22
5	On the interaction between two fireballs in low-temperature plasma. Physics of Plasmas, 2015, 22, 113511.	0.7	22
6	Laser ablation of (GeSe 2) 100â^'x (Sb 2 Se 3) x chalcogenide glasses: Influence of the target composition on the plasma plume dynamics. Applied Surface Science, 2017, 418, 594-600.	3.1	22
7	Influence of laser-produced plasma parameters on the deposition process: in situ space- and time-resolved optical emission spectroscopy and fractal modeling approach. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	21
8	Multiple structure formation and molecule dynamics in transient plasmas generated by laser ablation of graphite. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 165, 105774.	1.5	21
9	Experimental and theoretical aspects of a laser produced plasma. Physics of Plasmas, 2014, 21, .	0.7	20
10	A compact non-differential approach for modeling laser ablation plasma dynamics. Journal of Applied Physics, 2017, 121, 083301.	1.1	20
11	A theoretical mathematical model for assessing diclofenac release from chitosan-based formulations. Drug Delivery, 2020, 27, 1125-1133.	2.5	19
12	Particle distribution in transient plasmas generated by ns-laser ablation on ternary metallic alloys. Applied Physics B: Lasers and Optics, 2019, 125, 1.	1.1	17
13	Influence of rare earth addition in cobalt ferrite thin films obtained by pulsed laser deposition. Ceramics International, 2019, 45, 20165-20171.	2.3	17
14	Synthesis and hydrophilic properties of Mo doped TiO2 thin films. Journal of Applied Physics, 2014, 115, .	1.1	16
15	Spectral and electrical diagnosis of complex space-charge structures excited by a spherical grid cathode with orifice. Physica Scripta, 2017, 92, 044001.	1.2	15
16	On the separation of particle flow during pulse laser deposition of heterogeneous materials - A multi-fractal approach. Powder Technology, 2018, 339, 273-280.	2.1	15
17	Poly(vinyl alcohol boric acid)-Diclofenac Sodium Salt Drug Delivery Systems: Experimental and Theoretical Studies. Journal of Immunology Research, 2020, 2020, 1-14.	0.9	12
18	Investigation of laserâ€produced plasma multistructuring by floating probe measurements and optical emission spectroscopy. Plasma Processes and Polymers, 2020, 17, 2000136.	1.6	11

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19	In situ optical and electrical analysis of transient plasmas generated by ns-laser ablation for Ag nanostructured film production. Vacuum, 2021, 193, 110528.	1.6	11
20	Theoretical model for the diclofenac release from PEGylated chitosan hydrogels. Drug Delivery, 2021, 28, 261-271.	2.5	10
21	Insight into the plasma oxidation process during pulsed laser deposition. Plasma Processes and Polymers, 2022, 19, e2100102.	1.6	8
22	Charged Particle Oscillations in Transient Plasmas Generated by Nanosecond Laser Ablation on Mg Target. Symmetry, 2020, 12, 292.	1.1	7
23	A Theoretical Multifractal Model for Assessing Urea Release from Chitosan Based Formulations. Polymers, 2020, 12, 1264.	2.0	6
24	A Theoretical Model for Release Dynamics of an Antifungal Agent Covalently Bonded to the Chitosan. Molecules, 2021, 26, 2089.	1.7	6
25	In-situ plasma monitoring by optical emission spectroscopy during pulsed laser deposition of doped Lu2O3. Applied Physics B: Lasers and Optics, 2021, 127, 1.	1.1	6
26	Investigations of Laser Produced Plasmas Generated by Laser Ablation on Geomaterials. Experimental and Theoretical Aspects. Symmetry, 2019, 11, 1391.	1.1	6
27	A fractal approach of the sound absorption behaviour of materials. Theoretical and experimental aspects. International Journal of Non-Linear Mechanics, 2018, 103, 128-137.	1.4	5
28	Possible Dynamics of Polymer Chains by Means of a Ricatti s Procedure - an Exploitation for Drug Release at Large Time Intervals. Materiale Plastice, 2017, 54, 531-534.	0.4	5
29	On the Dynamics of Transient Plasmas Generated by Nanosecond Laser Ablation of Several Metals. Materials, 2021, 14, 7336.	1.3	5
30	Chua's Circuit: Control and Synchronization. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550050.	0.7	4
31	Concentric double hollow grid cathode discharges. International Journal of Mass Spectrometry, 2019, 436, 83-90.	0.7	4
32	Non-Linear Behaviors of Transient Periodic Plasma Dynamics in a Multifractal Paradigm. Symmetry, 2020, 12, 1356.	1.1	4
33	In-Situ Plasma Monitoring during the Pulsed Laser Deposition of Ni60Ti40 Thin Films. Symmetry, 2020, 12, 109.	1.1	4
34	Investigations of Transient Plasma Generated by Laser Ablation of Hydroxyapatite during the Pulsed Laser Deposition Process. Symmetry, 2020, 12, 132.	1.1	4
35	In Situ Monitoring of Pulsed Laser Annealing of Eu-Doped Oxide Thin Films. Materials, 2021, 14, 7576.	1.3	4
36	Understanding pulsed laser deposition process of copper halides via plasma diagnostics techniques. Journal of Applied Physics, 2021, 130, 243302.	1.1	4

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37	Lorenz Type Behaviors in the Dynamics of Laser Produced Plasma. Symmetry, 2019, 11, 1135.	1.1	3
38	Dynamic Evaluation of Traffic Noise through Standard and Multifractal Models. Symmetry, 2020, 12, 1857.	1.1	3
39	5-Fluorouracil Release from Chitosan-Based Matrix.Experimental and Theoretical Aspects. Materiale Plastice, 2020, 57, 180-188.	0.4	3
40	Experimental and Theoretical Studies on the Dynamics of Transient Plasmas Generated by Laser Ablation in Various Temporal Regimes. , 0, , .		2
41	Toward Interactions through Information in a Multifractal Paradigm. Entropy, 2020, 22, 987.	1.1	2
42	Novel Approach for EEG Signal Analysis in a Multifractal Paradigm of Motions. Epileptic and Eclamptic Seizures as Scale Transitions. Symmetry, 2021, 13, 1024.	1.1	2
43	Surface processes on lutetium oxide thin films doped with europium at different concentrations. Optical Materials, 2022, 123, 111940.	1.7	2
44	Assessment of Complex System Dynamics via Harmonic Mapping in a Multifractal Paradigm. Mathematics, 2021, 9, 3298.	1.1	2
45	Space-and time-resolved optical investigations on ns-laser produced plasmas on various geological samples. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 170, 105904.	1.5	1
46	Novel Approach for EKG Signals Analysis Based on Markovian and Non-Markovian Fractalization Type in Scale Relativity Theory. Symmetry, 2021, 13, 456.	1.1	1
47	In situ monitoring of electrical resistivity and plasma during pulsed laser deposition growth of ultra-thin silver films. Journal of Applied Physics, 2021, 130, 085301.	1.1	1
48	Concentric double hollow grid cathode discharges. Spectral investigations and phenomenological approach. Plasma Sources Science and Technology, 2021, 30, 085006.	1.3	1
49	Multifractal Model for Transient Phenomena Analysis in Laser Produced Plasmas. Symmetry, 2021, 13, 1968.	1.1	1
50	Tailoring pulsed laser deposition of phosphorus doped WOx films from (PO2)4(WO3)4 target by space-resolved optical emission spectroscopy.. Thin Solid Films, 2022, 742, 139042.	0.8	1
51	Impact of the Liquid Crystal Order of Poly(azomethine-sulfone)s on the Semiconducting Properties. Polymers, 2022, 14, 1487.	2.0	1
52	On the Deposition Process of Ceramic Layer Thin Films for Low-Carbon Steel Pipe Protection. Materials, 2022, 15, 4673.	1.3	1
53	Complex Systems with Selfâ€Elimination of Dissipation with Implication in Bioâ€Structural Behavior Via Nondifferentiability. , 2017, , .		0
54	Oscillatory behavior of hollow grid cathode discharges. , 2019, , .		0

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55	Dynamics of Transient Plasmas Generated by ns Laser Ablation of Memory Shape Alloys. , 0, , .		0
56	The Role of Information in Managing Interactions from a Multifractal Perspective. Entropy, 2021, 23, 148.	1.1	0
57	The Role of Information in the Transmission of Interactions at Nanoscale. Quantum Matter, 2017, 6, 66-73.	0.2	0
58	Non-Linear Effects at Differentiable-Non-Differentiable Scale Transition in Complex Fluids (II). Journal of Computational and Theoretical Nanoscience, 2017, 14, 3296-3311.	0.4	0
59	Theoretical Modeling of the Interaction Between Two Complex Space Charge Structures in Low-Temperature Plasma. , 2018, , 107-124.		0
60	A Statistical Interpretation of the Classical Action with Implications in the Dynamics of Non-Linear Growth Biostructures. , 2020, , .		0
61	Langmuir Probe Perturbations during In Situ Monitoring of Pulsed Laser Deposition Plasmas. Materials, 2022, 15, 2769.	1.3	0