

Eugen Stamate

List of Publications by Year in descending order

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69
papers

1,505
citations

304743

22
h-index

330143

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72
all docs

72
docs citations

72
times ranked

1977
citing authors

#	ARTICLE	IF	CITATIONS
1	Metallic and Insulating Interfaces of Amorphous SrTiO ₃ -Based Oxide Heterostructures. Nano Letters, 2011, 11, 3774-3778.	9.1	304
2	Ultra-thin Cu ₂ ZnSnS ₄ solar cell by pulsed laser deposition. Solar Energy Materials and Solar Cells, 2017, 166, 91-99.	6.2	83
3	Atmospheric pressure plasma produced inside a closed package by a dielectric barrier discharge in Ar/CO ₂ for bacterial inactivation of biological samples. Plasma Sources Science and Technology, 2011, 20, 025008.	3.1	73
4	Selective high-temperature CO ₂ electrolysis enabled by oxidized carbon intermediates. Nature Energy, 2019, 4, 846-855.	39.5	66
5	Determination of negative-ion and electron parameters in an Ar/SF ₆ plasma. Journal of Applied Physics, 1998, 84, 2450-2458.	2.5	51
6	Comparison of direct and indirect plasma oxidation of NO combined with oxidation by catalyst. Fuel, 2015, 144, 137-144.	6.4	45
7	Energy band alignment at the heterointerface between CdS and Ag-alloyed CZTS. Scientific Reports, 2020, 10, 18388.	3.3	37
8	IR and UV gas absorption measurements during NO _x reduction on an industrial natural gas fired power plant. Fuel, 2010, 89, 978-985.	6.4	36
9	Persistent Double-Layer Formation in Kesterite Solar Cells: A Critical Review. ACS Applied Materials & Interfaces, 2020, 12, 39405-39424.	8.0	35
10	Monolithic thin-film chalcogenide-silicon tandem solar cells enabled by a diffusion barrier. Solar Energy Materials and Solar Cells, 2020, 207, 110334.	6.2	34
11	Plasma and catalyst for the oxidation of NO _x . Plasma Sources Science and Technology, 2018, 27, 035001.	3.1	32
12	Modal Focusing Effect of Positive and Negative Ions by a Three-Dimensional Plasma-Sheath Lens. Physical Review Letters, 2005, 94, 125004.	7.8	28
13	Low surface damage dry etched black silicon. Journal of Applied Physics, 2017, 122, .	2.5	27
14	Influence of surface condition in Langmuir probe measurements. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2002, 20, 661-666.	2.1	26
15	Status and challenges in electrical diagnostics of processing plasmas. Surface and Coatings Technology, 2014, 260, 401-410.	4.8	26
16	Preparation of super-hydrophilic polyphenylsulfone nanofiber membranes for water treatment. RSC Advances, 2019, 9, 278-286.	3.6	26
17	Principle and application of a thermal probe to reactive plasmas. Applied Physics Letters, 2002, 80, 3066-3068.	3.3	25
18	Properties and etching rates of negative ions in inductively coupled plasmas and dc discharges produced in Ar/SF ₆ . Journal of Applied Physics, 2010, 107, .	2.5	25

#	ARTICLE	IF	CITATIONS
19	On the surface condition of Langmuir probes in reactive plasmas. Applied Physics Letters, 2001, 78, 153-155.	3.3	24
20	Discrete focusing effect of positive ions by a plasma-sheath lens. Physical Review E, 2005, 72, 036407.	2.1	24
21	Improved ceramic anodes for SOFCs with modified electrode/electrolyte interface. Journal of Power Sources, 2012, 212, 247-253.	7.8	23
22	High performance p-type segmented leg of misfit-layered cobaltite and half-Heusler alloy. Energy Conversion and Management, 2015, 99, 20-27.	9.2	23
23	Wide Band Gap $\text{Cu}_2\text{SrSnS}_4$ Solar Cells from Oxide Precursors. ACS Applied Energy Materials, 2019, 2, 7340-7344.	5.1	23
24	Properties of highly electronegative plasmas produced in a multipolar magnetic-confined device with a transversal magnetic filter. Journal Physics D: Applied Physics, 2010, 43, 155205.	2.8	21
25	On energetic electrons in a multipolar magnetically confined Ar plasma. Journal Physics D: Applied Physics, 1999, 32, 671-674.	2.8	20
26	Test function for the determination of plasma parameters by electric probes. Review of Scientific Instruments, 1999, 70, 58-62.	1.3	20
27	On performance limitations and property correlations of Al-doped ZnO deposited by radio-frequency sputtering. Journal Physics D: Applied Physics, 2016, 49, 295101.	2.8	20
28	Nitride-Based Interfacial Layers for Monolithic Tandem Integration of New Solar Energy Materials on Si: The Case of CZTS. ACS Applied Energy Materials, 2020, 3, 4600-4609.	5.1	19
29	Probe diagnostics of electronegative plasmas with bi-Maxwellian electrons. Journal of Applied Physics, 2001, 89, 2058-2064.	2.5	18
30	Plasma properties during magnetron sputtering of lithium phosphorous oxynitride thin films. Journal of Power Sources, 2015, 273, 863-872.	7.8	18
31	Investigation of NO_x Reduction by Low Temperature Oxidation Using Ozone Produced by Dielectric Barrier Discharge. Japanese Journal of Applied Physics, 2013, 52, 05EE03.	1.5	17
32	Oxide route for production of $\text{Cu}_2\text{ZnSnS}_4$ solar cells by pulsed laser deposition. Solar Energy Materials and Solar Cells, 2020, 215, 110605.	6.2	17
33	Spatially Resolved Optoelectronic Properties of Al-Doped Zinc Oxide Thin Films Deposited by Radio-Frequency Magnetron Plasma Sputtering Without Substrate Heating. Nanomaterials, 2020, 10, 14.	4.1	16
34	Lowering the resistivity of aluminum doped zinc oxide thin films by controlling the self-bias during RF magnetron sputtering. Surface and Coatings Technology, 2020, 402, 126306.	4.8	16
35	Complex ion-focusing effect by the sheath above the wafer in plasma immersion ion implantation. Applied Physics Letters, 2005, 86, 261501.	3.3	14
36	High electronegativity multi-dipolar electron cyclotron resonance plasma source for etching by negative ions. Journal of Applied Physics, 2012, 111, 083303.	2.5	14

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37	Cathode-supported hybrid direct carbon fuel cells. International Journal of Hydrogen Energy, 2017, 42, 4311-4319.	7.1	13
38	Controlling the conductivity of amorphous LaAlO ₃ /SrTiO ₃ interfaces by in-situ application of an electric field during fabrication. Applied Physics Letters, 2013, 103, 031607.	3.3	12
39	Radical production efficiency and electrical characteristics of a coplanar barrier discharge built by multilayer ceramic technology. Journal Physics D: Applied Physics, 2017, 50, 465201.	2.8	11
40	Sheath-lens probe for negative ion detection in reactive plasmas. Journal of Applied Physics, 2004, 95, 830-833.	2.5	10
41	Plasma parameters in the vicinity of the quartz window of a low pressure surface wave discharge produced in O ₂ . Thin Solid Films, 2007, 515, 4869-4873.	1.8	10
42	Discrete and modal focusing effects: principles and applications. Plasma Physics and Controlled Fusion, 2012, 54, 124048.	2.1	8
43	Chemical Composition and Structure of Adsorbed Material on Pore Surfaces in Middle East Reservoir Rocks. Energy & Fuels, 2018, 32, 11234-11242.	5.1	8
44	Spin-coated $\text{Cu}_2\text{ZnSnS}_4$ solar cells: A study on the transformation from ink to film. Scientific Reports, 2020, 10, 20749.	3.3	8
45	Development of high-efficiency laser Thomson scattering measurement system for the investigation of EEDF in surface wave plasma. Thin Solid Films, 2006, 506-507, 679-682.	1.8	7
46	Investigation of the ion dose non-uniformity caused by sheath-lens focusing effect on silicon wafers. Thin Solid Films, 2007, 515, 4887-4891.	1.8	7
47	InGaN/GaN ultraviolet LED with a graphene/AZO transparent current spreading layer. Optical Materials Express, 2018, 8, 1818.	3.0	7
48	Controlling surface properties of electrospun polyphenylsulfone using plasma treatment and X-ray photoelectron spectroscopy. Heliyon, 2019, 5, e01943.	3.2	7
49	Low-temperature preparation and investigation of electrochemical properties of SFM/CGO composite electrode. Solid State Ionics, 2020, 356, 115435.	2.7	7
50	Response to "Comment on "On the surface condition of Langmuir probes in reactive plasmas" [App. Phys. Lett. 79, 2663 (2001)]. Applied Physics Letters, 2001, 79, 2665-2665.	3.3	6
51	Plasma diagnostics by detecting the ion flux profile to a biased-target. Surface and Coatings Technology, 2003, 169-170, 65-68.	4.8	6
52	Improvement of the dose uniformity in plasma immersed ion implantation by introducing a vertical biased ring. Thin Solid Films, 2006, 506-507, 571-574.	1.8	6
53	Charge modulated interfacial conductivity in SrTiO ₃ -based oxide heterostructures. Applied Physics Letters, 2011, 98, 232105.	3.3	6
54	Comparative Study of Aluminum-Doped Zinc Oxide, Gallium-Doped Zinc Oxide and Indium-Doped Tin Oxide Thin Films Deposited by Radio Frequency Magnetron Sputtering. Nanomaterials, 2022, 12, 1539.	4.1	6

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55	Development of an SFMM/CGO composite electrode with stable electrochemical performance at different oxygen partial pressures. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 7915-7931.	7.1	5
56	Controlling the ion flux on substrates of different geometry by sheath-lens focusing effect. <i>Thin Solid Films</i> , 2007, 515, 4853-4859.	1.8	4
57	Tuning the resistive switching in tantalum oxide-based memristors by annealing. <i>AIP Advances</i> , 2020, 10, .	1.3	4
58	Spatial distribution of plasma parameters by a dual thermal-electrostatic probe in RF and DC magnetron sputtering discharges during deposition of aluminum doped zinc oxide thin films. <i>Plasma Sources Science and Technology</i> , 2021, 30, 045002.	3.1	3
59	Cu ₂ ZnSnS ₄ from oxide precursors grown by pulsed laser deposition for monolithic CZTS/Si tandem solar cells. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	2.3	3
60	Gettering in PolySi/SiO ₂ Passivating Contacts Enables Si-Based Tandem Solar Cells with High Thermal and Contamination Resilience. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 14342-14358.	8.0	3
61	Visualization of the sheath-lens focusing effect to disk and square electrodes. <i>IEEE Transactions on Plasma Science</i> , 2005, 33, 534-535.	1.3	2
62	Fine structure of modal focusing effect in a three dimensional plasma-sheath-lens formed by disk electrodes. <i>Applied Physics Letters</i> , 2015, 107, 094106.	3.3	2
63	Permeability, strength and electrochemical studies on ceramic multilayers for solid-state electrochemical cells. <i>Heliyon</i> , 2017, 3, e00371.	3.2	2
64	Silver-substituted (Ag _{1-x} Cu _x) ₂ ZnSnS ₄ solar cells from aprotic molecular inks. <i>Ceramics International</i> , 2022, 48, 21483-21491.	4.8	2
65	Principle and applications of a floating energy analyser. <i>European Physical Journal D</i> , 1998, 48, 1147-1159.	0.4	1
66	Investigation of energetic electrons in a 915 MHz microwave discharge produced in Ar. <i>Thin Solid Films</i> , 2006, 506-507, 701-704.	1.8	1
67	Using Transient Sheath Induced by Short High-voltage Pulse for Uniform Plasma Ion Implantation. <i>Japanese Journal of Applied Physics</i> , 2007, 46, L858-L860.	1.5	1
68	Towards solar cells with black silicon texturing passivated by a-Si:H. , 2018, , .		1
69	Dry Etching. , 2016, , 1343-1356.		0