Eugen Stamate

List of Publications by Year
in descending order

69 papers	1,505 citations	304743 22 h-index	330143 37 g-index
72 all docs	72 docs citations	72 times ranked	1977 citing authors

#	Article	IF	Citations
1	Development of an SFMM/CGO composite electrode with stable electrochemical performance at different oxygen partial pressures. International Journal of Hydrogen Energy, 2022, 47, 7915-7931.	7.1	5
2	Cu2ZnSnS4 from oxide precursors grown by pulsed laser deposition for monolithic CZTS/Si tandem solar cells. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	2.3	3
3	Gettering in PolySi/SiO<i>_x</i> Passivating Contacts Enables Si-Based Tandem Solar Cells with High Thermal and Contamination Resilience. ACS Applied Materials & Interfaces, 2022, 14, 14342-14358.	8.0	3
4	Silver-substituted (Ag1-xCux)2ZnSnS4 solar cells from aprotic molecular inks. Ceramics International, 2022, 48, 21483-21491.	4.8	2
5	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
6	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. Plasma Sources Science and Technology, 2021, 30, 045002.	3.1	3
7	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
8	Monolithic thin-film chalcogenideâ€“silicon tandem solar cells enabled by a diffusion barrier. Solar Energy Materials and Solar Cells, 2020, 207, 110334.	6.2	34
9	Low-temperature preparation and investigation of electrochemical properties of SFM/CGO composite electrode. Solid State Ionics, 2020, 356, 115435.	2.7	7
10	Spin-coated $$hbox {Cu}_2hbox {ZnSnS}_{4}$$ solar cells: A study on the transformation from ink to film. Scientific Reports, 2020, 10, 20749.	3.3	8
11	Persistent Double-Layer Formation in Kesterite Solar Cells: A Critical Review. ACS Applied Materials & Interfaces, 2020, 12, 39405-39424.	8.0	35
12	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
13	Energy band alignment at the heterointerface between CdS and Ag-alloyed CZTS. Scientific Reports, 2020, 10, 18388.	3.3	37
14	Oxide route for production of Cu2ZnSnS4 solar cells by pulsed laser deposition. Solar Energy Materials and Solar Cells, 2020, 215, 110605.	6.2	17
15	Tuning the resistive switching in tantalum oxide-based memristors by annealing. AIP Advances, 2020, 10, .	1.3	4
16	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
17	Controlling surface properties of electrospun polyphenylsulfone using plasma treatment and X-ray photoelectron spectroscopy. Heliyon, 2019, 5, e01943.	3.2	7
18	Wide Band Gap Cu₂SrSnS₄ Solar Cells from Oxide Precursors. ACS Applied Energy Materials, 2019, 2, 7340-7344.	5.1	23

#	ARTICLE	IF	CITATIONS
19	Selective high-temperature CO2 electrolysis enabled by oxidized carbon intermediates. Nature Energy, 2019, 4, 846-855.	39.5	66
20	Preparation of super-hydrophilic polyphenylsulfone nanofiber membranes for water treatment. RSC Advances, 2019, 9, 278-286.	3.6	26
21	Plasma and catalyst for the oxidation of NO<i>x</i>. Plasma Sources Science and Technology, 2018, 27, 035001.	3.1	32
22	Towards solar cells with black silicon texturing passivated by a-Si:H. , 2018, , .		1
23	Chemical Composition and Structure of Adsorbed Material on Pore Surfaces in Middle East Reservoir Rocks. Energy & Fuels, 2018, 32, 11234-11242.	5.1	8
24	InGaN/GaN ultraviolet LED with a graphene/AZO transparent current spreading layer. Optical Materials Express, 2018, 8, 1818.	3.0	7
25	Cathode-supported hybrid direct carbon fuel cells. International Journal of Hydrogen Energy, 2017, 42, 4311-4319.	7.1	13
26	Ultra-thin Cu2ZnSnS4 solar cell by pulsed laser deposition. Solar Energy Materials and Solar Cells, 2017, 166, 91-99.	6.2	83
27	Permeability, strength and electrochemical studies on ceramic multilayers for solid-state electrochemical cells. Heliyon, 2017, 3, e00371.	3.2	2
28	Low surface damage dry etched black silicon. Journal of Applied Physics, 2017, 122, .	2.5	27
29	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
30	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
31	Dry Etching. , 2016, , 1343-1356.		0
32	Comparison of direct and indirect plasma oxidation of NO combined with oxidation by catalyst. Fuel, 2015, 144, 137-144.	6.4	45
33	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
34	Fine structure of modal focusing effect in a three dimensional plasma-sheath-lens formed by disk electrodes. Applied Physics Letters, 2015, 107, 094106.	3.3	2
35	Plasma properties during magnetron sputtering of lithium phosphorous oxynitride thin films. Journal of Power Sources, 2015, 273, 863-872.	7.8	18
36	Status and challenges in electrical diagnostics of processing plasmas. Surface and Coatings Technology, 2014, 260, 401-410.	4.8	26

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37	Controlling the conductivity of amorphous LaAlO3/SrTiO3 interfaces by in-situ application of an electric field during fabrication. Applied Physics Letters, 2013, 103, 031607.	3.3	12
38	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
39	High electronegativity multi-dipolar electron cyclotron resonance plasma source for etching by negative ions. Journal of Applied Physics, 2012, 111, 083303.	2.5	14
40	Discrete and modal focusing effects: principles and applications. Plasma Physics and Controlled Fusion, 2012, 54, 124048.	2.1	8
41	Improved ceramic anodes for SOFCs with modified electrode/electrolyte interface. Journal of Power Sources, 2012, 212, 247-253.	7.8	23
42	Metallic and Insulating Interfaces of Amorphous SrTiO₃-Based Oxide Heterostructures. Nano Letters, 2011, 11, 3774-3778.	9.1	304
43	Atmospheric pressure plasma produced inside a closed package by a dielectric barrier discharge in Ar/CO₂for bacterial inactivation of biological samples. Plasma Sources Science and Technology, 2011, 20, 025008.	3.1	73
44	Charge modulated interfacial conductivity in SrTiO3-based oxide heterostructures. Applied Physics Letters, 2011, 98, 232105.	3.3	6
45	IR and UV gas absorption measurements during NOx reduction on an industrial natural gas fired power plant. Fuel, 2010, 89, 978-985.	6.4	36
46	Properties and etching rates of negative ions in inductively coupled plasmas and dc discharges produced in Ar/SF6. Journal of Applied Physics, 2010, 107, .	2.5	25
47	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
48	Using Transient Sheath Induced by Short High-voltage Pulse for Uniform Plasma Ion Implantation. Japanese Journal of Applied Physics, 2007, 46, L858-L860.	1.5	1
49	Plasma parameters in the vicinity of the quartz window of a low pressure surface wave discharge produced in O2. Thin Solid Films, 2007, 515, 4869-4873.	1.8	10
50	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
51	Controlling the ion flux on substrates of different geometry by sheath-lens focusing effect. Thin Solid Films, 2007, 515, 4853-4859.	1.8	4
52	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
53	Investigation of energetic electrons in a 915 MHz microwave discharge produced in Ar. Thin Solid Films, 2006, 506-507, 701-704.	1.8	1
54	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

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55	Complex ion-focusing effect by the sheath above the wafer in plasma immersion ion implantation. Applied Physics Letters, 2005, 86, 261501.	3.3	14
56	Discrete focusing effect of positive ions by a plasma-sheath lens. Physical Review E, 2005, 72, 036407.	2.1	24
57	Visualization of the sheath-lens focusing effect to disk and square electrodes. IEEE Transactions on Plasma Science, 2005, 33, 534-535.	1.3	2
58	Modal Focusing Effect of Positive and Negative Ions by a Three-Dimensional Plasma-Sheath Lens. Physical Review Letters, 2005, 94, 125004.	7.8	28
59	Sheath-lens probe for negative ion detection in reactive plasmas. Journal of Applied Physics, 2004, 95, 830-833.	2.5	10
60	Plasma diagnostics by detecting the ion flux profile to a biased-target. Surface and Coatings Technology, 2003, 169-170, 65-68.	4.8	6
61	Principle and application of a thermal probe to reactive plasmas. Applied Physics Letters, 2002, 80, 3066-3068.	3.3	25
62	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
63	Response to â€œComment on â€˜On the surface condition of Langmuir probes in reactive plasmasâ€™â€Šâ€•[Appl. Phys. Lett. 79, 2663 (2001)]. Applied Physics Letters, 2001, 79, 2665-2665.	3.3	6
64	Probe diagnostics of electronegative plasmas with bi-Maxwellian electrons. Journal of Applied Physics, 2001, 89, 2058-2064.	2.5	18
65	On the surface condition of Langmuir probes in reactive plasmas. Applied Physics Letters, 2001, 78, 153-155.	3.3	24
66	On energetic electrons in a multipolar magnetically confined Ar plasma. Journal Physics D: Applied Physics, 1999, 32, 671-674.	2.8	20
67	Test function for the determination of plasma parameters by electric probes. Review of Scientific Instruments, 1999, 70, 58-62.	1.3	20
68	Principle and applications of a floating energy analyser. European Physical Journal D, 1998, 48, 1147-1159.	0.4	1
69	Determination of negative-ion and electron parameters in an Ar/SF6 plasma. Journal of Applied Physics, 1998, 84, 2450-2458.	2.5	51