Angelika Polity

List of Publications by Year
in descending order

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42 papers	1,152 citations	623734 14 h-index	377865 34 g-index
43 all docs	43 docs citations	43 times ranked	1764 citing authors

#	Article	IF	Citations
1	Embedding Quaternary V_{1â€“xâ€“y}Sr_xW_yO₂ into Multilayer Systems to Enhance Its Thermochromic Properties for Smart Glass Applications. ACS Applied Electronic Materials, 2022, 4, 513-520.	4.3	4
2	Phase Control of Multivalent Vanadium Oxides VO_x by Ionâ€Beam Sputterâ€Deposition. Physica Status Solidi (A) Applications and Materials Science, 2022, 219, .	1.8	4
3	Advantageous optical characteristics of tantalum vanadium oxide as counter electrode in electrochromic devices. Journal of Materials Science, 2022, 57, 12810-12823.	3.7	3
4	Electrochromic switching of tungsten oxide films grown by reactive ion-beam sputter deposition. Journal of Materials Science, 2021, 56, 615-628.	3.7	21
5	Determining the band alignment of copper-oxide gallium-oxide heterostructures. Journal of Applied Physics, 2021, 129, .	2.5	6
6	Investigation of Sputterâ€Deposited Thin Films of Lithium Phosphorous Sulfuric Oxynitride (LiPSON) as Solid Electrolyte for Electrochromic Devices. Physica Status Solidi (B): Basic Research, 2021, 258, 2100032.	1.5	3
7	Investigations of the Solid Electrolyte Interphase Using Xâ€Ray Photoelectron Spectroscopy In situ Experiment on the Lithiumâ€Based Solid Electrolyte LiPSON. Physica Status Solidi (B): Basic Research, 2020, 257, 1900336.	1.5	9
8	Structural and Electrochemical Characterization of Radio Frequency Magnetronâ€Sputtered LiCoO 2 Thin Films. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 2000382.	1.8	2
9	Controlled thin-film deposition of Î± or Î² Ga2O3 by ion-beam sputtering. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	2.1	6
10	Progress in Sputter Growth of Î² â€Ga 2 O 3 by Applying Pulsedâ€Mode Operation. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1901009.	1.8	4
11	Optimizing the Stoichiometry of Ga 2 O 3 Grown by RFâ€Magnetron Sputter Deposition by Correlating Optical Properties and Growth Parameters. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900385.	1.8	8
12	Assessing a growth anomaly in ion-beam sputtered non-stoichiometric NiOx. Journal of Applied Physics, 2019, 126, .	2.5	0
13	Interplay between electronic and structural transitions in VO2 revealed by ellipsometry. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2019, 37, 061202.	1.2	2
14	Thermally Switchable Terahertz Metasurface Devices. , 2019, , .		1
15	Electrochemical and Optical Properties of Lithium Ion Conducting LiPSON Solid Electrolyte Films. Physica Status Solidi (B): Basic Research, 2019, 256, 1900047.	1.5	8
16	Controlling the p-type conductivity of SnO by doping with nitrogen and hydrogen. Journal of Applied Physics, 2019, 125, .	2.5	14
17	Materials processing using radio-frequency ion-sources: Ion-beam sputter-deposition and surface treatment. Review of Scientific Instruments, 2019, 90, 023901.	1.3	27
18	On the Growth of Stannic Oxide by Ion Beam Sputter Deposition (IBSD). Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700623.	1.8	4

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19	Impact of Composition x on the Refractive Index of Ni_xO. Physica Status Solidi (B): Basic Research, 2018, 255, 1700463.	1.5	9
20	Microscopic nature of the asymmetric hysteresis in the insulator-metal transition of VO2revealed by spectroscopic ellipsometry. Applied Physics Letters, 2018, 113, 201906.	3.3	9
21	Analysis of the optical parameters of amorphous ternary oxides Sn 1 â˜' xZn xO and Sn 1 â˜' xNi xO processed by combinatorial ion-beam sputter deposition. Journal of Applied Physics, 2018, 124, 155701.	2.5	2
22	Assessing the growth window of stannous oxide by ion beam sputter deposition (IBSD). Journal of Crystal Growth, 2018, 498, 17-24.	1.5	2
23	Optimizing thermochromic VO2 by co-doping with W and Sr for smart window applications. Applied Physics Letters, 2017, 110, .	3.3	70
24	NiO films on sapphire as potential antiferromagnetic pinning layers. Journal of Applied Physics, 2017, 122, .	2.5	16
25	Spectroscopic ellipsometry and optical transmission study of LiPON thin films prepared by RF sputtering. Physica Status Solidi (B): Basic Research, 2017, 254, 1600424.	1.5	8
26	Electrochemical properties and optical transmission of high Li⁺ conducting LiSiPON electrolyte films. Physica Status Solidi (B): Basic Research, 2017, 254, 1600088.	1.5	27
27	The influence of nitrogen doping on the electrical and vibrational properties of Cu₂O. Physica Status Solidi (B): Basic Research, 2017, 254, 1600421.	1.5	18
28	Optical properties of VO2 films at the phase transition: Influence of substrate and electronic correlations. Journal of Applied Physics, 2016, 120, .	2.5	24
29	Synthesis of tin oxides SnO_{2â€“x} in the entire composition range (x = 0 to 1) by ionâ€beam sputterâ€deposition. Physica Status Solidi - Rapid Research Letters, 2015, 9, 326-330.	2.4	23
30	Influence of doping with alkaline earth metals on the optical properties of thermochromic VO2. Journal of Applied Physics, 2015, 117, .	2.5	61
31	Assessing the thermoelectric properties of CuxO (xâ€‰=â€‰1 to 2) thin films as a function of composition. Applied Physics Letters, 2015, 106, .	3.3	37
32	Synthesis and Characterization of Copper Oxide Compounds. Materials Research Society Symposia Proceedings, 2014, 1633, 3-12.	0.1	1
33	Stannic oxide thin film growth via ion-beam-sputtering. Thin Solid Films, 2014, 553, 26-29.	1.8	11
34	Possibility of enhancing the thermoelectric figure of merit of ZnO by sulfur incorporation. Applied Physics Letters, 2013, 103, .	3.3	10
35	On the synthesis and properties of ternary copper oxide sulfides (Cu₂O_{1â€“x}S_x). Physica Status Solidi - Rapid Research Letters, 2013, 7, 360-363.	2.4	7
36	Deposition of tin oxides by Ion-Beam-Sputtering. Materials Research Society Symposia Proceedings, 2012, 1494, 153-158.	0.1	4

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37	Structural, electrical, and optical properties of hydrogen-doped ZnO films. Physical Review B, 2012, 86, .	3.2	43
38	Optical and electrical properties of Cu2O, Cu4O3 and CuO. Materials Research Society Symposia Proceedings, 2012, 1494, 165-169.	0.1	10
39	Binary copper oxide semiconductors: From materials towards devices. Physica Status Solidi (B): Basic Research, 2012, 249, 1487-1509.	1.5	547
40	Annealing effects on VO2 thin films deposited by reactive sputtering. Thin Solid Films, 2006, 515, 2519-2522.	1.8	74
41	Transmission spectra of crystals at elevated temperatures for the calculation of internal radiant heat transport during crystal growthâ€“ Part 1: The spectrometer and its performance. Crystal Research and Technology, 2003, 38, 868-873.	1.3	6
42	Transmission spectra of crystals at elevated temperatures for the calculation of internal radiant heat transport during crystal growthâ€“ Part 2: Spectra of YAG:Cr, YVO4:Nd and the bandgap variation of various materials. Crystal Research and Technology, 2003, 38, 874-880.	1.3	5