Angelika Polity

List of Publications by Year
in descending order

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	Binary copper oxide semiconductors: From materials towards devices. Physica Status Solidi (B): Basic Research, 2012, 249, 1487-1509.	1.5	547
2	Annealing effects on VO2 thin films deposited by reactive sputtering. Thin Solid Films, 2006, 515, 2519-2522.	1.8	74
3	Optimizing thermochromic VO2 by co-doping with W and Sr for smart window applications. Applied Physics Letters, 2017, 110, .	3.3	70
4	Influence of doping with alkaline earth metals on the optical properties of thermochromic VO2. Journal of Applied Physics, 2015, 117, .	2.5	61
5	Structural, electrical, and optical properties of hydrogen-doped ZnO films. Physical Review B, 2012, 86, .	3.2	43
6	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
7	Electrochemical properties and optical transmission of high Li⁺ conducting LiSiPON electrolyte films. Physica Status Solidi (B): Basic Research, 2017, 254, 1600088.	1.5	27
8	Materials processing using radio-frequency ion-sources: Ion-beam sputter-deposition and surface treatment. Review of Scientific Instruments, 2019, 90, 023901.	1.3	27
9	Optical properties of VO2 films at the phase transition: Influence of substrate and electronic correlations. Journal of Applied Physics, 2016, 120, .	2.5	24
10	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
11	Electrochromic switching of tungsten oxide films grown by reactive ion-beam sputter deposition. Journal of Materials Science, 2021, 56, 615-628.	3.7	21
12	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
13	NiO films on sapphire as potential antiferromagnetic pinning layers. Journal of Applied Physics, 2017, 122, .	2.5	16
14	Controlling the p-type conductivity of SnO by doping with nitrogen and hydrogen. Journal of Applied Physics, 2019, 125, .	2.5	14
15	Stannic oxide thin film growth via ion-beam-sputtering. Thin Solid Films, 2014, 553, 26-29.	1.8	11
16	Optical and electrical properties of Cu2O, Cu4O3 and CuO. Materials Research Society Symposia Proceedings, 2012, 1494, 165-169.	0.1	10
17	Possibility of enhancing the thermoelectric figure of merit of ZnO by sulfur incorporation. Applied Physics Letters, 2013, 103, .	3.3	10
18	Impact of Composition x on the Refractive Index of Ni_xO. Physica Status Solidi (B): Basic Research, 2018, 255, 1700463.	1.5	9

#	Article	IF	Citations
19	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
20	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
21	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
22	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
23	Electrochemical and Optical Properties of Lithium Ion Conducting LiPSON Solid Electrolyte Films. Physica Status Solidi (B): Basic Research, 2019, 256, 1900047.	1.5	8
24	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
25	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
26	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
27	Determining the band alignment of copper-oxide gallium-oxide heterostructures. Journal of Applied Physics, 2021, 129, .	2.5	6
28	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
29	Deposition of tin oxides by Ion-Beam-Sputtering. Materials Research Society Symposia Proceedings, 2012, 1494, 153-158.	0.1	4
30	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
31	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
32	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
33	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
34	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
35	Advantageous optical characteristics of tantalum vanadium oxide as counter electrode in electrochromic devices. Journal of Materials Science, 2022, 57, 12810-12823.	3.7	3
36	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

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37	Assessing the growth window of stannous oxide by ion beam sputter deposition (IBSD). Journal of Crystal Growth, 2018, 498, 17-24.	1.5	2
38	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
39	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
40	Synthesis and Characterization of Copper Oxide Compounds. Materials Research Society Symposia Proceedings, 2014, 1633, 3-12.	0.1	1
41	Thermally Switchable Terahertz Metasurface Devices. , 2019, , .		1
42	Assessing a growth anomaly in ion-beam sputtered non-stoichiometric NiOx. Journal of Applied Physics, 2019, 126, .	2.5	0