

Jiri Rezek

List of Publications by Citations

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23
papers

444
citations

12
h-index

21
g-index

23
ext. papers

500
ext. citations

3.9
avg, IF

3.79
L-index

#	Paper	IF	Citations
23	Process stabilization and a significant enhancement of the deposition rate in reactive high-power impulse magnetron sputtering of ZrO ₂ and Ta ₂ O ₅ films. <i>Surface and Coatings Technology</i> , 2013 , 236, 550-556	4.4	62
22	Benefits of the controlled reactive high-power impulse magnetron sputtering of stoichiometric ZrO ₂ films. <i>Vacuum</i> , 2015 , 114, 131-141	3.7	50
21	High-rate reactive high-power impulse magnetron sputtering of hard and optically transparent HfO ₂ films. <i>Surface and Coatings Technology</i> , 2016 , 290, 58-64	4.4	47
20	Overview of optical properties of Al ₂ O ₃ films prepared by various techniques. <i>Thin Solid Films</i> , 2012 , 520, 5405-5408	2.2	42
19	On surface temperatures during high power pulsed magnetron sputtering using a hot target. <i>Surface and Coatings Technology</i> , 2011 , 206, 1155-1159	4.4	39
18	Significant improvement of the performance of ZrO ₂ /V ₁ -W O ₂ /ZrO ₂ thermochromic coatings by utilizing a second-order interference. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 191, 365-371	6.4	31
17	High-rate reactive high-power impulse magnetron sputtering of Ta ₂ O ₅ films with tunable composition and properties. <i>Thin Solid Films</i> , 2014 , 566, 70-77	2.2	27
16	Characterization of thermochromic VO ₂ (prepared at 250 °C) in a wide temperature range by spectroscopic ellipsometry. <i>Applied Surface Science</i> , 2017 , 421, 529-534	6.7	27
15	Ion flux characteristics and efficiency of the deposition processes in high power impulse magnetron sputtering of zirconium. <i>Journal of Applied Physics</i> , 2010 , 108, 063307	2.5	23
14	Structure and properties of Hf-O-N films prepared by high-rate reactive HiPIMS with smoothly controlled composition. <i>Ceramics International</i> , 2017 , 43, 5661-5667	5.1	20
13	Optical emission spectroscopy during the deposition of zirconium dioxide films by controlled reactive high-power impulse magnetron sputtering. <i>Journal of Applied Physics</i> , 2017 , 121, 171908	2.5	13
12	High-performance thermochromic VO ₂ -based coatings with a low transition temperature deposited on glass by a scalable technique. <i>Scientific Reports</i> , 2020 , 10, 11107	4.9	13
11	Effect of positive pulse voltage in bipolar reactive HiPIMS on crystal structure, microstructure and mechanical properties of CrN films. <i>Surface and Coatings Technology</i> , 2020 , 393, 125773	4.4	12
10	Enhancement of the deposition rate in reactive mid-frequency ac magnetron sputtering of hard and optically transparent ZrO ₂ films. <i>Surface and Coatings Technology</i> , 2018 , 336, 54-60	4.4	11
9	High-rate reactive high-power impulse magnetron sputtering of transparent conductive Al-doped ZnO thin films prepared at ambient temperature. <i>Thin Solid Films</i> , 2019 , 679, 35-41	2.2	8
8	In-Ga-Zn-O thin films with tunable optical and electrical properties prepared by high-power impulse magnetron sputtering. <i>Thin Solid Films</i> , 2018 , 658, 27-32	2.2	6
7	Influence of heat generated by a Raman excitation laser on the structural analysis of thin amorphous silicon film. <i>Applied Surface Science</i> , 2016 , 364, 302-307	6.7	5

6	Thermal stability of structure, microstructure and enhanced properties of ZrTaO films with a low and high Ta content. <i>Surface and Coatings Technology</i> , 2018 , 335, 95-103	4.4	3
5	Dependence of the ZrO ₂ growth on the crystal orientation: growth simulations and magnetron sputtering. <i>Applied Surface Science</i> , 2021 , 151422	6.7	2
4	Tuning Stoichiometry and Structure of Pd-WO Thin Films for Hydrogen Gas Sensing by High-Power Impulse Magnetron Sputtering. <i>Materials</i> , 2020 , 13,	3.5	1
3	Synergy of experiment and model for reactive HiPIMS: effect of discharge parameters on WO _x composition and deposition rate. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 125202	3	1
2	Transfer of the sputter technique for deposition of strongly thermochromic VO ₂ -based coatings on ultrathin flexible glass to large-scale roll-to-roll device. <i>Surface and Coatings Technology</i> , 2022 , 128273	4.4	1
1	Tungsten Oxide Based Hydrogen Gas Sensor Prepared by Advanced Magnetron Sputtering. <i>Engineering Proceedings</i> , 2021 , 6, 5	0.5	