Joerg Patscheider

List of Publications by Year
in descending order

30 papers	1,425 citations	516710 16 h-index	477307 29 g-index
30 all docs	30 docs citations	30 times ranked	1619 citing authors

#	Article	IF	Citations
1	Structureâ€“performance relations in nanocomposite coatings. Surface and Coatings Technology, 2001, 146-147, 201-208.	4.8	314
2	Nanocomposite TiC/aâ€“C:H hard coatings deposited by reactive PVD. Surface and Coatings Technology, 2000, 133-134, 138-144.	4.8	240
3	A complete and self-consistent evaluation of XPS spectra of TiN. Journal of Electron Spectroscopy and Related Phenomena, 2012, 185, 523-534.	1.7	168
4	Nanocomposite Hard Coatings for Wear Protection. MRS Bulletin, 2003, 28, 180-183.	3.5	166
5	Influence of sputter damage on the XPS analysis of metastable nanocomposite coatings. Surface and Coatings Technology, 2009, 204, 455-462.	4.8	84
6	Photochemical and electrocatalytic water oxidation activity of cobalt carbodiimide. Journal of Materials Chemistry A, 2015, 3, 5072-5082.	10.3	68
7	Morphology, microstructure evolution and optical properties of Alâ€“Siâ€“N nanocomposite coatings. Surface and Coatings Technology, 2014, 257, 114-120.	4.8	51
8	Electronic structure of the SiN<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math>/TiN interface: A model system for superhard nanocomposites. Physical Review B, 2011, 83, .	3.2	42
9	Synthesis and characterization of MoB2â^'x thin films grown by nonreactive DC magnetron sputtering. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, .	2.1	32
10	Influence of Deposition Temperature on the Phase Evolution of HfNbTiVZr High-Entropy Thin Films. Materials, 2019, 12, 587.	2.9	31
11	New spinel oxide catalysts for visible-light-driven water oxidation. RSC Advances, 2012, 2, 3076.	3.6	27
12	Modified high power impulse magnetron sputtering process for increased deposition rate of titanium. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2013, 31, .	2.1	26
13	Spectral artefacts post sputter-etching and how to cope with them â€“ A case study of XPS on nitride-based coatings using monoatomic and cluster ion beams. Applied Surface Science, 2018, 442, 487-500.	6.1	24
14	Structure and properties of sputter-deposited Al-Sn-N thin films. Journal of Alloys and Compounds, 2016, 682, 42-51.	5.5	21
15	Tribological Properties of Nanocomposite CrC x /a-C:H Thin Films. Tribology Letters, 2007, 27, 97-104.	2.6	20
16	Flow hydrogenation of p-nitrophenol with nano-Ag/Al₂O₃. RSC Advances, 2016, 6, 87564-87568.	3.6	19
17	Phase constitution and interface structure of nano-sized Ag-Cu/AlN multilayers: Experiment and ab initio modeling. Applied Physics Letters, 2012, 101, .	3.3	16
18	Nanocomposite Alâ€“Geâ€“N thin films and their mechanical and optical properties. Journal of Materials Chemistry, 2012, 22, 16761.	6.7	15

#	Article	IF	Citations
19	Complex phase compositions in nanostructured coatings as evidenced by photoelectron spectroscopy: The case of Alâ€“Siâ€“N hard coatings. Journal of Applied Physics, 2010, 108, 023508.	2.5	14
20	Experimental and theoretical evidence of charge transfer in multi-component alloys â€“ how chemical interactions reduce atomic size mismatch. Materials Chemistry Frontiers, 2021, 5, 5746-5759.	5.9	14
21	Influence of oxygen content on structure and material properties of reactively sputtered Al-Ge-O-N thin films. Journal of Alloys and Compounds, 2018, 738, 515-527.	5.5	10
22	Effect of in situ electric-field-assisted growth on antiphase boundaries in epitaxial <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Fe</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> thin films on MgO. Physical Review Materials, 2018, 2, .	2.4	6
23	Understanding the microstructural evolution and mechanical properties of transparent Al-O-N and Al-Si-O-N films. Science and Technology of Advanced Materials, 2019, 20, 1031-1042.	6.1	4
24	On the structural and magnetic properties of the double perovskite $$hbox {Nd}_{2}hbox {NiMnO}_{6}$$. Journal of Materials Science: Materials in Electronics, 2019, 30, 16571-16578.	2.2	3
25	Recoverable and Reusable Polymer Microbead-Supported Metal Nanocatalysts for Redox Chemical Transformations. ACS Applied Nano Materials, 2020, 3, 1722-1730.	5.0	3
26	In Situ Formation of Ge Nanoparticles by Annealing of Al-Ge-N Thin Films Followed by HAXPES and XRD. Inorganic Chemistry, 2019, 58, 11100-11109.	4.0	2
27	Plasmon-Mediated Oxidation Reaction on Au/p-Cu2O: The Origin of Hot Holes. Physchem, 2021, 1, 163-175.	1.1	2
28	A setup for arc-free reactive DC sputter deposition of Al-O-N. Surface and Coatings Technology, 2019, 362, 220-224.	4.8	2
29	Surface analysis of nickel nanomaterials electrodeposited on graphite surface. Micro and Nano Letters, 2019, 14, 1233-1237.	1.3	1
30	Conductive n-type gallium nitride thin films prepared by sputter deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, 042703.	2.1	0