Roland K Schulze

List of Publications by Year
in descending order

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Version: 2024-02-01

31	1,858	516710 16	477307 29
papers	citations	h-index	g-index

34	34	34	3353
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Laser acceleration of quasi-monoenergetic MeV ion beams. Nature, 2006, 439, 441-444.	27.8	659
2	Effect of Air Exposure on Surface Properties, Electronic Structure, and Carrier Relaxation in PbSe Nanocrystals. ACS Nano, 2010, 4, 2021-2034.	14.6	230
3	Efficient hydrogen evolution in transition metal dichalcogenides via a simple one-step hydrazine reaction. Nature Communications, 2016, 7, 11857.	12.8	179
4	Combined Experimental and Theoretical Investigation of the Premartensitic Transition in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ni</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>MnGa</mml:mi></mml:math>. Physical Review Letters, 2008, 100, 165703.	7.8	112
5	Anisotropic thermal conductivity in uranium dioxide. Nature Communications, 2014, 5, 4551.	12.8	93
6	Band Structure of SnTe Studied by Photoemission Spectroscopy. Physical Review Letters, 2010, 105, 086404.	7.8	90
7	Resonant photoemission inf-electron systems:â€ƒPu and Gd. Physical Review B, 2003, 68, .	3.2	68
8	Surface chemistry of Pu oxides. Journal of Nuclear Materials, 2004, 328, 124-136.	2.7	49
9	Epitaxial Superconducting Î´-MoN Films Grown by a Chemical Solution Method. Journal of the American Chemical Society, 2011, 133, 20735-20737.	13.7	48
10	Understanding the Complex Phase Diagram of Uranium: The Role of Electron-Phonon Coupling. Physical Review Letters, 2011, 107, 136401.	7.8	47
11	Synthesis of cobalt nanoparticles by ion implantation and effects of postimplantation annealing. Journal of Applied Physics, 2004, 96, 4444-4450.	2.5	41
12	Ejecta Transport, Breakup and Conversion. Journal of Dynamic Behavior of Materials, 2017, 3, 334-345.	1.7	30
13	Incommensurate antiferromagnetism in a pure spin system via cooperative organization of local and itinerant moments. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3287-3292.	7.1	29
14	Influence of surface contamination on the wettability of heat transfer surfaces. International Journal of Heat and Mass Transfer, 2015, 91, 311-317.	4.8	27
15	Valence-band UPS,6pcore-level XPS, and LEED of a uranium (001) single crystal. Physical Review B, 2006, 73, .	3.2	23
16	Oxidized Germanium as a Broad-Band Sensitizer for Er-Doped SnO₂ Nanofibers. Journal of Physical Chemistry C, 2009, 113, 12-16.	3.1	23
17	Plutonium uptake by brucite and hydroxylated periclase. Journal of Alloys and Compounds, 2007, 444-445, 533-539.	5.5	17
18	Critical factors that determine face-centered cubic to body-centered cubic phase transformation in sputter-deposited austenitic stainless steel films. Journal of Materials Research, 2004, 19, 1696-1702.	2.6	16

#	Article	IF	Citations
19	Angle-resolved photoemission and first-principles electronic structure of single-crystallineÎ±-U(001). Physical Review B, 2007, 75, .	3.2	16
20	Understanding the transport and break up of reactive ejecta. Physica D: Nonlinear Phenomena, 2021, 415, 132787.	2.8	10
21	Electronic instabilities in shape-memory alloys: Thermodynamic and electronic structure studies of the martensitic transition. Physical Review B, 2007, 75, .	3.2	9
22	Studies on thin film MgB2 for applications to RF structures for particle accelerators. AIP Conference Proceedings, 2012, , .	0.4	9
23	Thermal stability of sputtered Cuâ•304 stainless steel multilayer films. Journal of Applied Physics, 2007, 101, 124311.	2.5	8
24	Array of cobalt nanoparticles in silica: Synthesis and effects of thermal annealing. Journal of Applied Physics, 2006, 99, 104307.	2.5	7
25	Magnetic anisotropy study of ion-beam synthesized cobalt nanocrystals. Applied Physics Letters, 2006, 89, 182502.	3.3	6
26	Incorporation of fluorine in hydrogenated silicon carbide films deposited by pulsed glow discharge. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2004, 22, 1223-1228.	2.1	5
27	Studies of reactive and nonreactive metalsâ€“ejectaâ€“transporting nonreactive and reactive gases and vacuum. AIP Conference Proceedings, 2020, , .	0.4	3
28	Photoelectric Effect in Uranium. Journal of the Physical Society of Japan, 2006, 75, 56-57.	1.6	2
29	The temperatures of ejecta transporting in vacuum and gases. Journal of Applied Physics, 2022, 131, 195104.	2.5	2
30	Uranium Hydride Formation Study as Observed by Scanning Surface Potential Imaging. Materials Research Society Symposia Proceedings, 2006, 986, 1.	0.1	0
31	Density of states features in some anomalous melting elements. Journal of Physics Condensed Matter, 2013, 25, 465107.	1.8	0