Petru Lunca-Popa

List of Publications by Year
in descending order

23	449	623574 14	713332 21
papers	citations	h-index	g-index

23	23	23	618
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A review on the p-type transparent Cuâ€“Crâ€“O delafossite materials. Journal of Materials Science, 2022, 57, 3114-3142.	1.7	21
2	Spray Deposition of Silver Nanowires on Large Area Substrates for Transparent Electrodes. ACS Applied Nano Materials, 2021, 4, 1126-1135.	2.4	12
3	Two-Step Approach for Conformal Chemical Vapor-Phase Deposition of Ultra-Thin Conductive Silver Films. ACS Applied Materials & Interfaces, 2020, 12, 36329-36338.	4.0	12
4	Tuneable interplay between atomistic defects morphology and electrical properties of transparent p-type highly conductive off-stoichiometric Cu-Cr-O delafossite thin films. Scientific Reports, 2020, 10, 1416.	1.6	14
5	Large-Scale Deposition and Growth Mechanism of Silver Nanoparticles by Plasma-Enhanced Atomic Layer Deposition. Journal of Physical Chemistry C, 2019, 123, 27196-27206.	1.5	20
6	Transparent p-Cu0.66Cr1.33O2/n-ZnO heterojunction prepared in a five-step scalable process. Journal of Materials Science: Materials in Electronics, 2019, 30, 1760-1766.	1.1	9
7	Tuning the electrical properties of the p-type transparent conducting oxide Cu1â^'xCr1+xO2 by controlled annealing. Scientific Reports, 2018, 8, 7216.	1.6	24
8	Structural, morphological, and optical properties of Bi2O3 thin films grown by reactive sputtering. Thin Solid Films, 2017, 624, 41-48.	0.8	19
9	Invisible electronics: Metastable Cu-vacancies chain defects for highly conductive p-type transparent oxide. Applied Materials Today, 2017, 9, 184-191.	2.3	34
10	Transparent conductive CuCrO₂thin films deposited by pulsed injection metal organic chemical vapor deposition: up-scalable process technology for an improved transparency/conductivity trade-off. Journal of Materials Chemistry C, 2016, 4, 4278-4287.	2.7	63
11	Electrical and optical properties of Cuâ€“Crâ€“O thin films fabricated by chemical vapour deposition. Thin Solid Films, 2016, 612, 194-201.	0.8	22
12	Helium diffraction on SiC grown graphene: Qualitative and quantitative descriptions with the hard-corrugated-wall model. Physical Review B, 2016, 94, .	1.1	15
13	Determination of the geometric corrugation of graphene on SiC(0001) by grazing incidence fast atom diffraction. Applied Physics Letters, 2015, 106, 101902.	1.5	32
14	The magnetoelectrochemical switch. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10433-10437.	3.3	5
15	Transient Quantum Trapping of Fast Atoms at Surfaces. Physical Review Letters, 2014, 112, 023203.	2.9	29
16	Surface-grating deflection of fast atom beams. Physical Review A, 2013, 88, .	1.0	15
17	Strontium Diffusion in Magnetron Sputtered Gadoliniaâ€Doped Ceria Thin Film Barrier Coatings for Solid Oxide Fuel Cells. Advanced Energy Materials, 2013, 3, 923-929.	10.2	25
18	Highly oriented Î´-Bi2O3 thin films stable at room temperature synthesized by reactive magnetron sputtering. Journal of Applied Physics, 2013, 113, 046101.	1.1	29

#	Article	IF	Citations
19	Heteronanojunctions with atomic size control using a lab-on-chip electrochemical approach with integrated microfluidics. Nanotechnology, 2011, 22, 215302.	1.3	3
20	Lab-On-Chip Fabrication of Atomic Scale Magnetic Junctions. ECS Transactions, 2009, 16, 3-10.	0.3	1
21	The coadsorption and interaction of molecular icosahedra with mercury. Applied Physics A: Materials Science and Processing, 2005, 81, 1613-1618.	1.1	7
22	Evidence for multiple polytypes of semiconducting boron carbide (C2B10) from electronic structure. Journal Physics D: Applied Physics, 2005, 38, 1248-1252.	1.3	37
23	Mercury and C2B10 Icosahedra Interaction. Materials Research Society Symposia Proceedings, 2004, 848, 348.	0.1	1