

Petru Lunca-Popa

List of Publications by Year in descending order

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papers

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623574

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#	ARTICLE	IF	CITATIONS
1	Transparent conductive CuCrO_2 thin films deposited by pulsed injection metal organic chemical vapor deposition: up-scalable process technology for an improved transparency/conductivity trade-off. <i>Journal of Materials Chemistry C</i> , 2016, 4, 4278-4287.	2.7	63
2	Evidence for multiple polytypes of semiconducting boron carbide (C_2B_{10}) from electronic structure. <i>Journal Physics D: Applied Physics</i> , 2005, 38, 1248-1252.	1.3	37
3	Invisible electronics: Metastable Cu-vacancies chain defects for highly conductive p-type transparent oxide. <i>Applied Materials Today</i> , 2017, 9, 184-191.	2.3	34
4	Determination of the geometric corrugation of graphene on $\text{SiC}(0001)$ by grazing incidence fast atom diffraction. <i>Applied Physics Letters</i> , 2015, 106, 101902.	1.5	32
5	Highly oriented $\hat{\Gamma}$ - Bi_2O_3 thin films stable at room temperature synthesized by reactive magnetron sputtering. <i>Journal of Applied Physics</i> , 2013, 113, 046101.	1.1	29
6	Transient Quantum Trapping of Fast Atoms at Surfaces. <i>Physical Review Letters</i> , 2014, 112, 023203.	2.9	29
7	Strontium Diffusion in Magnetron Sputtered Gadolinia-Doped Ceria Thin Film Barrier Coatings for Solid Oxide Fuel Cells. <i>Advanced Energy Materials</i> , 2013, 3, 923-929.	10.2	25
8	Tuning the electrical properties of the p-type transparent conducting oxide $\text{Cu}_{1-x}\text{Cr}_x\text{O}_2$ by controlled annealing. <i>Scientific Reports</i> , 2018, 8, 7216.	1.6	24
9	Electrical and optical properties of CuCrO thin films fabricated by chemical vapour deposition. <i>Thin Solid Films</i> , 2016, 612, 194-201.	0.8	22
10	A review on the p-type transparent CuCrO delafossite materials. <i>Journal of Materials Science</i> , 2022, 57, 3114-3142.	1.7	21
11	Large-Scale Deposition and Growth Mechanism of Silver Nanoparticles by Plasma-Enhanced Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27196-27206.	1.5	20
12	Structural, morphological, and optical properties of Bi_2O_3 thin films grown by reactive sputtering. <i>Thin Solid Films</i> , 2017, 624, 41-48.	0.8	19
13	Surface-grating deflection of fast atom beams. <i>Physical Review A</i> , 2013, 88, .	1.0	15
14	Helium diffraction on SiC grown graphene: Qualitative and quantitative descriptions with the hard-corrugated-wall model. <i>Physical Review B</i> , 2016, 94, .	1.1	15
15	Tuneable interplay between atomistic defects morphology and electrical properties of transparent p-type highly conductive off-stoichiometric Cu-Cr-O delafossite thin films. <i>Scientific Reports</i> , 2020, 10, 1416.	1.6	14
16	Two-Step Approach for Conformal Chemical Vapor-Phase Deposition of Ultra-Thin Conductive Silver Films. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36329-36338.	4.0	12
17	Spray Deposition of Silver Nanowires on Large Area Substrates for Transparent Electrodes. <i>ACS Applied Nano Materials</i> , 2021, 4, 1126-1135.	2.4	12
18	Transparent p- $\text{Cu}_{0.66}\text{Cr}_{1.33}\text{O}_2$ /n- ZnO heterojunction prepared in a five-step scalable process. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 1760-1766.	1.1	9

#	ARTICLE	IF	CITATIONS
19	The coadsorption and interaction of molecular icosahedra with mercury. Applied Physics A: Materials Science and Processing, 2005, 81, 1613-1618.	1.1	7
20	The magnetochemical switch. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10433-10437.	3.3	5
21	Heteronanojunctions with atomic size control using a lab-on-chip electrochemical approach with integrated microfluidics. Nanotechnology, 2011, 22, 215302.	1.3	3
22	Mercury and C2B10 Icosahedra Interaction. Materials Research Society Symposia Proceedings, 2004, 848, 348.	0.1	1
23	Lab-On-Chip Fabrication of Atomic Scale Magnetic Junctions. ECS Transactions, 2009, 16, 3-10.	0.3	1