Ridwan Sakidja

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5491288/publications.pdf

Version: 2024-02-01

53 papers	1,384 citations	361413 20 h-index	330143 37 g-index
55 all docs	55 docs citations	55 times ranked	2034 citing authors

#	Article	IF	Citations
1	A genomic approach to the stability, elastic, and electronic properties of the MAX phases. Physica Status Solidi (B): Basic Research, 2014, 251, 1480-1497.	1.5	126
2	High-Performance All-Inorganic CsPbCl₃ Perovskite Nanocrystal Photodetectors with Superior Stability. ACS Nano, 2019, 13, 1772-1783.	14.6	105
3	First-principles molecular dynamics modeling of the LiClâ€“KCl molten salt system. Computational Materials Science, 2014, 83, 362-370.	3.0	89
4	Oxidation of ZrB2â€“SiC ultra-high temperature composites over a wide range of SiC content. Journal of the European Ceramic Society, 2012, 32, 3875-3883.	5.7	85
5	Fundamental electronic structure and multiatomic bonding in 13 biocompatible high-entropy alloys. Npj Computational Materials, 2020, 6, .	8.7	79
6	Approximate lattice thermal conductivity of MAX phases at high temperature. Journal of the European Ceramic Society, 2015, 35, 3203-3212.	5.7	78
7	Extraordinary Sensitivity of Surfaceâ€Enhanced Raman Spectroscopy of Molecules on MoS₂ (WS₂) Nanodomes/Graphene van der Waals Heterostructure Substrates. Advanced Optical Materials, 2019, 7, 1801249.	7.3	73
8	The Ti₃AlC₂ MAX Phase as an Efficient Catalyst for Oxidative Dehydrogenation of nâ€Butane. Angewandte Chemie - International Edition, 2018, 57, 1485-1490.	13.8	61
9	Densification of a continuous random network model of amorphous SiO₂glass. Physical Chemistry Chemical Physics, 2014, 16, 1500-1514.	2.8	56
10	Synchronous growth of AB-stacked bilayer graphene on Cu by simply controlling hydrogen pressure in CVD process. Carbon, 2015, 93, 199-206.	10.3	54
11	Plasmonic Au Nanoparticles on 2D MoS₂/Graphene van der Waals Heterostructures for High-Sensitivity Surface-Enhanced Raman Spectroscopy. ACS Applied Nano Materials, 2019, 2, 1412-1420.	5.0	53
12	Interlayer Transition in a vdW Heterostructure toward Ultrahigh Detectivity Shortwave Infrared Photodetectors. Advanced Functional Materials, 2020, 30, 1905687.	14.9	52
13	Moâ€“Siâ€“B based coating for oxidation protection of SiCâ€“C composites. Surface and Coatings Technology, 2012, 206, 4166-4172.	4.8	47
14	Oxidation Resistant Coatings for Ultrahigh Temperature Refractory Moâ€Base Alloys. Advanced Engineering Materials, 2009, 11, 892-897.	3.5	45
15	Atomically Thin <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Al</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:mrow></mml:math> Films for Tunnel Junctions. Physical Review Applied, 2017, 7, .	3.8	35
16	Broadband Photodetectors Enabled by Localized Surface Plasmonic Resonance in Doped Iron Pyrite Nanocrystals. Advanced Optical Materials, 2018, 6, 1701241.	7.3	32
17	Multiferroicity of Carbonâ€Based Chargeâ€Transfer Magnets. Advanced Materials, 2015, 27, 734-739.	21.0	31
18	Au Nanoparticle/WS₂ Nanodome/Graphene van der Waals Heterostructure Substrates for Surface-Enhanced Raman Spectroscopy. ACS Applied Nano Materials, 2020, 3, 2354-2363.	5.0	27

#	Article	IF	Citations
19	The Ti₃AlC₂ MAX Phase as an Efficient Catalyst for Oxidative Dehydrogenation of nâ€Butane. Angewandte Chemie, 2018, 130, 1501-1506.	2.0	25
20	Magnetic properties of coreâ€“shell nanoparticles possessing a novel Fe(<scp>ii</scp>)-chromia phase: an experimental and theoretical approach. Nanoscale, 2018, 10, 2138-2147.	5.6	23
21	Synergistic Strain Engineering Effect of Hybrid Plasmonic, Catalytic, and Magnetic Coreâ€“Shell Nanocrystals. Nano Letters, 2015, 15, 8347-8353.	9.1	21
22	Elastic and electronic properties of Ti2Al(C N1â^') solid solutions. Journal of the European Ceramic Society, 2015, 35, 3219-3227.	5.7	19
23	Effect of an Interfacial Layer on Electron Tunneling through Atomically Thin Al₂O₃ Tunnel Barriers. ACS Applied Materials & Interfaces, 2017, 9, 37468-37475.	8.0	18
24	Temperature-Dependent Properties of Molten Li₂BeF₄ Salt Using Ab Initio Molecular Dynamics. ACS Omega, 2021, 6, 19822-19835.	3.5	17
25	Ab initio study on the adsorption mechanism of oxygen on Cr2AlC (0 0 0 1) surface. Applied Surface Science, 2014, 315, 45-54.	6.1	16
26	Ab initiocalculations of thermomechanical properties and electronic structure of vitreloy<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">Z</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mrow><mml:mn>41.2</mml:mn></mml:mrow></mml:msub><mml:mi mathvariant="normal">T</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mrow><mml:mn>13.8</mml:mn></mml:mrow></mml:msub><mml:mi	3.2	16
27	Oxidation of Cr2AlC (0001): Insights from Ab Initio Calculations. Jom, 2013, 65, 1487-1491.	1.9	13
28	In situ atomic layer deposition and electron tunneling characterization of monolayer Al2O3 on Fe for magnetic tunnel junctions. AIP Advances, 2018, 8, .	1.3	13
29	Supersolidus Phase Investigation of the Bi-Sr-Ca-Cu Oxide System in Silver Tape. Journal of the American Ceramic Society, 1993, 76, 724-728.	3.8	11
30	Effect of Al₂O₃ Seed-Layer on the Dielectric and Electrical Properties of Ultrathin MgO Films Fabricated Using In Situ Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2019, 11, 30368-30375.	8.0	10
31	Crystal Plasticity Modeling of Void Growth on Grain Boundaries in Ni-Based Superalloys. Jom, 2019, 71, 3859-3868.	1.9	7
32	An experimental and theoretical study of the optical, electronic, and magnetic properties of novel inverted Î±-Cr₂O₃@Î±-Mn_{0.35}Cr_{1.65}O_{2.94}core shell nanoparticles. Journal of Materials Research, 2017, 32, 269-278.	2.6	6
33	Electronic structure and mechanical properties of crystalline precipitate phases M₂₃C₆(M=Cr, W, Mo, Fe) in Ni-based superalloys. Materials Research Express, 2019, 6, 116323.	1.6	6
34	Experimental and theoretical investigation of a mesoporous K_xWO₃material having superior mechanical strength. Nanoscale, 2016, 8, 2937-2943.	5.6	5
35	DFT Study on the Li Mobility in Li-Ion-Based Solid-State Electrolytes. MRS Advances, 2017, 2, 3277-3282.	0.9	5
36	Ligands Anchoring Stabilizes Metal Halide Perovskite Nanocrystals. Advanced Optical Materials, 0, , 2101012.	7.3	5

#	Article	IF	Citations
37	Studies of the mechanical and extreme hydrothermal properties of periodic mesoporous silica and aluminosilica materials. Microporous and Mesoporous Materials, 2017, 252, 69-78.	4.4	4
38	Study of amorphous boron carbide (a-BxC) materials using Molecular Dynamics (MD) and Hybrid Reverse Monte Carlo (HRMC). Journal of Non-Crystalline Solids, 2020, 530, 119783.	3.1	4
39	Coating Strategies for Oxidation Resistant High Temperature Mo-Si-B Alloys. ECS Transactions, 2007, 3, 113-127.	0.5	2
40	Investigations of the Mechanical and Hydrothermal Stabilities of SBA-15 and Al-SBA-15 Mesoporous Materials. MRS Advances, 2016, 1, 2453-2458.	0.9	2
41	Broadband Photodetectors: Broadband Photodetectors Enabled by Localized Surface Plasmonic Resonance in Doped Iron Pyrite Nanocrystals (Advanced Optical Materials 8/2018). Advanced Optical Materials, 2018, 6, 1870033.	7.3	2
42	Self-Assembled Metal Molecular Networks by Nanoconfinement. Journal of Physical Chemistry Letters, 2019, 10, 206-213.	4.6	2
43	Composition- and oxidation-controlled magnetism in ternary FeCoNi nanocrystals. Nano Research, 2016, 9, 831-836.	10.4	1
44	MDM2 case study: computational protocol utilising protein flexibility and data mining improves ligand binding mode predictions. International Journal of Computational Biology and Drug Design, 2017, 10, 207.	0.3	1
45	Investigation of In Vacuo Atomic Layer Deposition of Ultrathin MgAl₂O₄ Using Scanning Tunneling Spectroscopy. ACS Applied Electronic Materials, 2020, 2, 3121-3130.	4.3	1
46	A Framework for Visualizing the Dynamic Events of Carbon Nanocomposites using Virtual and Augmented Reality Tools. , 2019, , .		1
47	Nucleation of (Mo) Precipitates on Dislocations During Annealing of a Mo-rich Mo5SiB2 Phase. Materials Research Society Symposia Proceedings, 2004, 842, 321.	0.1	0
48	Recent Development in Alloying Designs and Computational Modeling in Refractory Metals. Jom, 2013, 65, 299-300.	1.9	0
49	Charge-Transfer Magnets: Multiferroicity of Carbon-Based Charge-Transfer Magnets (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overloc	21.0	0
50	Nanoscale Structure-Property Relationship in Amorphous Hydrogenated Boron Carbide for Low-k Dielectric Applications. Microscopy and Microanalysis, 2017, 23, 1486-1487.	0.4	0
51	Role of generated free radicals in synthesis of amorphous hydrogenated boron carbide from orthocarborane using argon bombardment: a ReaxFF molecular dynamics study. Materials Research Express, 2019, 6, 126461.	1.6	0
52	Direct Determination of Medium Range Ordering in Amorphous Hydrogenated Boron Carbide for Low-k Dielectric Applications. Microscopy and Microanalysis, 2020, 26, 248-249.	0.4	0
53	Deep potential development of transition-metal-rich carbides. MRS Advances, 0, , .	0.9	0