

Ridwan Sakidja

List of Publications by Year in descending order

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53
papers

1,384
citations

361413

20
h-index

330143

37
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55
all docs

55
docs citations

55
times ranked

2034
citing authors

#	ARTICLE	IF	CITATIONS
1	Temperature-Dependent Properties of Molten Li_2BeF_4 Salt Using <i>Ab Initio</i> Molecular Dynamics. ACS Omega, 2021, 6, 19822-19835.	3.5	17
2	Interlayer Transition in a vdW Heterostructure toward Ultrahigh Detectivity Shortwave Infrared Photodetectors. Advanced Functional Materials, 2020, 30, 1905687.	14.9	52
3	Study of amorphous boron carbide (a-B ₄ C) materials using Molecular Dynamics (MD) and Hybrid Reverse Monte Carlo (HRMC). Journal of Non-Crystalline Solids, 2020, 530, 119783.	3.1	4
4	Investigation of <i>In Vacuo</i> Atomic Layer Deposition of Ultrathin MgAl_2O_4 Using Scanning Tunneling Spectroscopy. ACS Applied Electronic Materials, 2020, 2, 3121-3130.	4.3	1
5	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
6	Fundamental electronic structure and multiatomic bonding in 13 biocompatible high-entropy alloys. Npj Computational Materials, 2020, 6, .	8.7	79
7	Au Nanoparticle/ WS_2 Nanodome/Graphene van der Waals Heterostructure Substrates for Surface-Enhanced Raman Spectroscopy. ACS Applied Nano Materials, 2020, 3, 2354-2363.	5.0	27
8	Effect of Al_2O_3 Seed-Layer on the Dielectric and Electrical Properties of Ultrathin MgO Films Fabricated Using <i>In Situ</i> Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2019, 11, 30368-30375.	8.0	10
9	Crystal Plasticity Modeling of Void Growth on Grain Boundaries in Ni-Based Superalloys. Jom, 2019, 71, 3859-3868.	1.9	7
10	Electronic structure and mechanical properties of crystalline precipitate phases M_{23}C_6 (M=Cr, W, Mo, Fe) in Ni-based superalloys. Materials Research Express, 2019, 6, 116323.	1.6	6
11	High-Performance All-Inorganic CsPbCl_3 Perovskite Nanocrystal Photodetectors with Superior Stability. ACS Nano, 2019, 13, 1772-1783.	14.6	105
12	Extraordinary Sensitivity of Surface-Enhanced Raman Spectroscopy of Molecules on MoS_2 (WS_2) Nanodomains/Graphene van der Waals Heterostructure Substrates. Advanced Optical Materials, 2019, 7, 1801249.	7.3	73
13	Plasmonic Au Nanoparticles on 2D MoS_2 /Graphene van der Waals Heterostructures for High-Sensitivity Surface-Enhanced Raman Spectroscopy. ACS Applied Nano Materials, 2019, 2, 1412-1420.	5.0	53
14	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
15	Self-Assembled Metal Molecular Networks by Nanoconfinement. Journal of Physical Chemistry Letters, 2019, 10, 206-213.	4.6	2
16	A Framework for Visualizing the Dynamic Events of Carbon Nanocomposites using Virtual and Augmented Reality Tools. , 2019, , .		1
17	Broadband Photodetectors Enabled by Localized Surface Plasmonic Resonance in Doped Iron Pyrite Nanocrystals. Advanced Optical Materials, 2018, 6, 1701241.	7.3	32
18	Magnetic properties of core-shell nanoparticles possessing a novel Fe(<i>scp</i>)-chromia phase: an experimental and theoretical approach. Nanoscale, 2018, 10, 2138-2147.	5.6	23

#	ARTICLE	IF	CITATIONS
19	The Ti ₃ AlC ₂ MAX Phase as an Efficient Catalyst for Oxidative Dehydrogenation of n-Butane. <i>Angewandte Chemie</i> , 2018, 130, 1501-1506.	2.0	25
20	The Ti ₃ AlC ₂ MAX Phase as an Efficient Catalyst for Oxidative Dehydrogenation of n-Butane. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1485-1490.	13.8	61
21	Broadband Photodetectors: Broadband Photodetectors Enabled by Localized Surface Plasmonic Resonance in Doped Iron Pyrite Nanocrystals (<i>Advanced Optical Materials</i> 8/2018). <i>Advanced Optical Materials</i> , 2018, 6, 1870033.	7.3	2
22	<i>In situ</i> atomic layer deposition and electron tunneling characterization of monolayer Al ₂ O ₃ on Fe for magnetic tunnel junctions. <i>AIP Advances</i> , 2018, 8, .	1.3	13
23	An experimental and theoretical study of the optical, electronic, and magnetic properties of novel inverted $\text{Fe-Cr}_2\text{O}_3@_{\pm}\text{Mn}_{0.35}\text{Cr}_{1.65}\text{O}_{2.94}$ core shell nanoparticles. <i>Journal of Materials Research</i> , 2017, 32, 269-278.	2.6	6
24	Studies of the mechanical and extreme hydrothermal properties of periodic mesoporous silica and aluminosilica materials. <i>Microporous and Mesoporous Materials</i> , 2017, 252, 69-78.	4.4	4
25	DFT Study on the Li Mobility in Li-Ion-Based Solid-State Electrolytes. <i>MRS Advances</i> , 2017, 2, 3277-3282.	0.9	5
26	Effect of an Interfacial Layer on Electron Tunneling through Atomically Thin Al ₂ O ₃ Tunnel Barriers. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 37468-37475.	8.0	18
27	Atomically Thin Al_2O_3 Films for Tunnel Junctions. <i>Physical Review Applied</i> , 2017, 7, .	3.8	35
28	Nanoscale Structure-Property Relationship in Amorphous Hydrogenated Boron Carbide for Low-k Dielectric Applications. <i>Microscopy and Microanalysis</i> , 2017, 23, 1486-1487.	0.4	0
29	MDM2 case study: computational protocol utilising protein flexibility and data mining improves ligand binding mode predictions. <i>International Journal of Computational Biology and Drug Design</i> , 2017, 10, 207.	0.3	1
30	Investigations of the Mechanical and Hydrothermal Stabilities of SBA-15 and Al-SBA-15 Mesoporous Materials. <i>MRS Advances</i> , 2016, 1, 2453-2458.	0.9	2
31	<i>Ab initio</i> calculations of thermomechanical properties and electronic structure of vitreous ZrO_2 .	3.2	16
32	Composition- and oxidation-controlled magnetism in ternary FeCoNi nanocrystals. <i>Nano Research</i> , 2016, 9, 831-836.	10.4	1
33	Experimental and theoretical investigation of a mesoporous K_xWO_3 material having superior mechanical strength. <i>Nanoscale</i> , 2016, 8, 2937-2943.	5.6	5
34	Synchronous growth of AB-stacked bilayer graphene on Cu by simply controlling hydrogen pressure in CVD process. <i>Carbon</i> , 2015, 93, 199-206.	10.3	54
35	Charge-Transfer Magnets: Multiferroicity of Carbon-Based Charge-Transfer Magnets (<i>Adv. Mater.</i>) Tj ETQq1 1 0.784314 rgBT /Overloc 21.0	21.0	0
36	Synergistic Strain Engineering Effect of Hybrid Plasmonic, Catalytic, and Magnetic Core-Shell Nanocrystals. <i>Nano Letters</i> , 2015, 15, 8347-8353.	9.1	21

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37	Approximate lattice thermal conductivity of MAX phases at high temperature. Journal of the European Ceramic Society, 2015, 35, 3203-3212.	5.7	78
38	Elastic and electronic properties of Ti ₂ Al(C,N) solid solutions. Journal of the European Ceramic Society, 2015, 35, 3219-3227.	5.7	19
39	Multiferroicity of Carbon-Based Charge-Transfer Magnets. Advanced Materials, 2015, 27, 734-739.	21.0	31
40	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
41	First-principles molecular dynamics modeling of the LiCl-KCl molten salt system. Computational Materials Science, 2014, 83, 362-370.	3.0	89
42	Densification of a continuous random network model of amorphous SiO ₂ glass. Physical Chemistry Chemical Physics, 2014, 16, 1500-1514.	2.8	56
43	Ab initio study on the adsorption mechanism of oxygen on Cr ₂ AlC (0 0 0 1) surface. Applied Surface Science, 2014, 315, 45-54.	6.1	16
44	Recent Development in Alloying Designs and Computational Modeling in Refractory Metals. Jom, 2013, 65, 299-300.	1.9	0
45	Oxidation of Cr ₂ AlC (0001): Insights from Ab Initio Calculations. Jom, 2013, 65, 1487-1491.	1.9	13
46	Oxidation of ZrB ₂ -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
47	Mo-Si-B based coating for oxidation protection of SiC-C composites. Surface and Coatings Technology, 2012, 206, 4166-4172.	4.8	47
48	Oxidation Resistant Coatings for Ultrahigh Temperature Refractory Mo-Base Alloys. Advanced Engineering Materials, 2009, 11, 892-897.	3.5	45
49	Coating Strategies for Oxidation Resistant High Temperature Mo-Si-B Alloys. ECS Transactions, 2007, 3, 113-127.	0.5	2
50	Nucleation of (Mo) Precipitates on Dislocations During Annealing of a Mo-rich Mo ₅ SiB ₂ Phase. Materials Research Society Symposia Proceedings, 2004, 842, 321.	0.1	0
51	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
52	Ligands Anchoring Stabilizes Metal Halide Perovskite Nanocrystals. Advanced Optical Materials, 0, , 2101012.	7.3	5
53	Deep potential development of transition-metal-rich carbides. MRS Advances, 0, , .	0.9	0