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List of Publications by Year
in descending order

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49 papers	1,633 citations	257101 24 h-index	301761 39 g-index
49 all docs	49 docs citations	49 times ranked	1323 citing authors

#	Article	IF	Citations
1	Structural, spectral, dielectric, and magnetic properties of indium substituted Cu0.5Zn0.5Fe2â^'xO4 magnetic oxides. Journal of Materials Science: Materials in Electronics, 2022, 33, 27-41.	1.1	8
2	Ultrasonically derived WSe2 nanostructure embedded MXene hybrid composites for supercapacitors and hydrogen evolution reactions. Renewable Energy, 2022, 185, 585-597.	4.3	38
3	Room temperature half metallic ferromagnetism due to Os/Ir(5d) in double perovskites. Journal of Alloys and Compounds, 2022, 896, 163130.	2.8	5
4	Study of new lead-free double perovskites halides Tl2TiX6 (X = Cl, Br, I) for solar cells and renewable energy devices. Journal of Solid State Chemistry, 2022, 308, 122887.	1.4	31
5	Synthesis and characterization of Al and Zr-dual-doped lithium cobalt oxide cathode for Li-ion batteries using a facile hydrothermal approach. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 641, 128493.	2.3	9
6	First principle study of optoelectronic and mechanical properties of lead-free double perovskites Cs₂SeX₆ (Xâ€‰=â€‰Cl, Br, I). Journal of Taibah University for Science, 2022, 16, 155-162.	1.1	23
7	Development of directly grownâ€grapheneâ€“silicon Schottky barrier solar cell using coâ€doping technique. International Journal of Energy Research, 2022, 46, 11510-11522.	2.2	11
8	Self-activated, urea modified microporous carbon cryogels for high-performance CO2 capture and separation. Carbon, 2022, 192, 14-29.	5.4	47
9	Room temperature ferromagnetism and thermoelectric behavior of calcium based spinel chalcogenides CaZ2S4 (Z = Ti, V, Cr, Fe) for spintronic applications. Journal of Physics and Chemistry of Solids, 2022, 167, 110742.	1.9	19
10	Study of narrow band gap double perovskites (Sr/Ba)2BB'O6 (B = In, Tl, B' = Sb, Bi) for optical, thermoelectric, and mechanical properties. Materials Today Communications, 2022, 31, 103547.	0.9	9
11	Study of double perovskites X2InSbO6 (X = Sr, Ba) for renewable energy; alternative of organic-inorganic perovskites. Journal of Materials Research and Technology, 2022, 18, 4403-4412.	2.6	36
12	Bimetallic Cu/Fe MOF-Based Nanosheet Film via Binder-Free Drop-Casting Route: A Highly Efficient Urea-Electrolysis Catalyst. Nanomaterials, 2022, 12, 1916.	1.9	33
13	Supercapacitor performance based on nitrogen and sulfur coâ€doped hierarchically porous carbons: Superior rate capability and cycle stability. International Journal of Energy Research, 2022, 46, 15602-15616.	2.2	31
14	Impact of 5d electrons on half metallic ferromagnetism, and thermoelectric properties of Cs2Z(Cl/Br)6 (Z = Os, Ir) for spintronic applications. Materials Chemistry and Physics, 2022, 288, 126414.	2.0	17
15	Electrocatalytic and photocatalytic sustainable conversion of carbon dioxide to value-added chemicals: State-of-the-art progress, challenges, and future directions. Journal of Environmental Chemical Engineering, 2022, 10, 108219.	3.3	17
16	Solvent-free, one-pot synthesis of nitrogen-tailored alkali-activated microporous carbons with an efficient CO2 adsorption. Carbon, 2021, 172, 71-82.	5.4	137
17	New <scp>leadâ€free</scp> double perovskites <scp> X ₂ GeI ₆ </scp> (XÂ=ÂK, Rb,) Tj ETQq1 1 0.784314 g of Energy Research, 2021, 45, 19645-19652.	2.2	20
18	First principle study of half metallic ferromagnetism and transport properties of spinelâ€™s ZnFe₂(S/Se)₄ for spintronic. Physica Scripta, 2021, 96, 125816.	1.2	10

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19	A rational design of cellulose-based heteroatom-doped porous carbons: Promising contenders for CO2 adsorption and separation. Chemical Engineering Journal, 2021, 420, 130421.	6.6	99
20	Role of heteroatoms (nitrogen and sulfur)-dual doped corn-starch based porous carbons for selective CO2 adsorption and separation. Journal of CO2 Utilization, 2021, 51, 101641.	3.3	75
21	New lead-free double perovskites (Rb2GeCl/Br)6; a promising materials for renewable energy applications. Materials Chemistry and Physics, 2021, 271, 124876.	2.0	21
22	A facile strategy for the preparation of bismuth ferrite nanoparticles: Influence of calcination temperature on structural, dielectric, and morphological characteristics. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 628, 127328.	2.3	13
23	Tailoring of band gap to tune the optical and thermoelectric properties of Sr1-xBaxSnO3 stannates for clean energy; probed by DFT. Chemical Physics, 2021, 551, 111322.	0.9	12
24	First principle study of optoelectronic and thermoelectric properties of magnesium based MgX2O4 (X) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.4	14
25	Heteroatoms-doped hierarchical porous carbons: Multifunctional materials for effective methylene blue removal and cryogenic hydrogen storage. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 630, 127554.	2.3	33
26	Valorization of shrimp shell biowaste for environmental remediation: Efficient contender for CO2 adsorption and separation. Journal of Environmental Management, 2021, 299, 113661.	3.8	56
27	Appealing perspectives of structural, electronic, mechanical, and thermoelectric properties of Tl2(Se,) Tj ETQq1 1 0.784314 rgBT /Ove 110258.	1.9	34
28	pâ€GeSe/nâ€ReS₂ Heterojunction Rectifier Exhibiting A Fast Photoresponse with Ultraâ€High Frequencyâ€Switching Applications. Advanced Materials Interfaces, 2021, 8, 2100705.	1.9	29
29	Ultrafast and Highly Stable Photodetectors Based on p-GeSe/n-ReSe₂ Heterostructures. ACS Applied Materials & Interfaces, 2021, 13, 47882-47894.	4.0	26
30	Sustainable N-doped hierarchical porous carbons as efficient CO2 adsorbents and high-performance supercapacitor electrodes. Journal of CO2 Utilization, 2020, 42, 101326.	3.3	84
31	WS₂/GeSe/WS₂ Bipolar Transistor-Based Chemical Sensor with Fast Response and Recovery Times. ACS Applied Materials & Interfaces, 2020, 12, 39524-39532.	4.0	48
32	Energy-Efficient Tunneling Field-Effect Transistors for Low-Power Device Applications: Challenges and Opportunities. ACS Applied Materials & Interfaces, 2020, 12, 47127-47163.	4.0	51
33	Thickness-dependent efficiency of directly grown graphene based solar cells. Carbon, 2019, 148, 187-195.	5.4	49
34	Surface spin accumulation due to the inverse spin Hall effect in WS ₂ crystals. 2D Materials, 2019, 6, 011007.	2.0	15
35	Gate Modulation of the Spin-orbit Interaction in Bilayer Graphene Encapsulated by WS2 films. Scientific Reports, 2018, 8, 3412.	1.6	20
36	Temperature-Dependent and Gate-Tunable Rectification in a Black Phosphorus/WS₂ van der Waals Heterojunction Diode. ACS Applied Materials & Interfaces, 2018, 10, 13150-13157.	4.0	61

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37	Van der Waals heterojunction diode composed of WS₂flake placed on p-type Si substrate. Nanotechnology, 2018, 29, 045201.	1.3	21
38	Ultimate limit in size and performance of WSe2 vertical diodes. Nature Communications, 2018, 9, 5371.	5.8	63
39	Comparison of Electrical and Photoelectrical Properties of ReS₂ Field-Effect Transistors on Different Dielectric Substrates. ACS Applied Materials & Interfaces, 2018, 10, 32501-32509.	4.0	44
40	Gate Tunable Transport in Graphene/MoS2/(Cr/Au) Vertical Field-Effect Transistors. Nanomaterials, 2018, 8, 14.	1.9	22
41	Layer dependent magnetoresistance of vertical MoS₂ magnetic tunnel junctions. Nanoscale, 2018, 10, 16703-16710.	2.8	27
42	Under Pressure DFT Investigations on Optical and Electronic Properties of PbZrO₃. Acta Physica Polonica A, 2018, 133, 105-113.	0.2	22
43	A facile route to a high-quality graphene/MoS₂ vertical field-effect transistor with gate-modulated photocurrent response. Journal of Materials Chemistry C, 2017, 5, 2337-2343.	2.7	19
44	Enhanced photoresponse of ZnO quantum dot-decorated MoS₂ thin films. RSC Advances, 2017, 7, 16890-16900.	1.7	59
45	Effect of grain boundaries on electrical properties of polycrystalline graphene. Carbon, 2017, 112, 142-148.	5.4	22
46	Two- and four-probe field-effect and Hall mobilities in transition metal dichalcogenide field-effect transistors. RSC Advances, 2016, 6, 60787-60793.	1.7	24
47	Electrical and photo-electrical properties of MoS₂ nanosheets with and without an Al₂O₃ capping layer under various environmental conditions. Science and Technology of Advanced Materials, 2016, 17, 166-176.	2.8	36
48	Putting DFT to the trial: First principles pressure dependent analysis on optical properties of cubic perovskite SrZrO3. Computational Condensed Matter, 2015, 4, 32-39.	0.9	32
49	Tailoring the multiferroic properties of BiFeO3 by low energy ions implantation. Journal of Electroceramics, 0, , 1.	0.8	1