

Ghazanfar Nazir

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1041822/publications.pdf>

Version: 2024-02-01

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	Solvent-free, one-pot synthesis of nitrogen-tailored alkali-activated microporous carbons with an efficient CO ₂ adsorption. Carbon, 2021, 172, 71-82.	5.4	137
2	A rational design of cellulose-based heteroatom-doped porous carbons: Promising contenders for CO ₂ adsorption and separation. Chemical Engineering Journal, 2021, 420, 130421.	6.6	99
3	Sustainable N-doped hierarchical porous carbons as efficient CO ₂ adsorbents and high-performance supercapacitor electrodes. Journal of CO ₂ Utilization, 2020, 42, 101326.	3.3	84
4	Role of heteroatoms (nitrogen and sulfur)-dual doped corn-starch based porous carbons for selective CO ₂ adsorption and separation. Journal of CO ₂ Utilization, 2021, 51, 101641.	3.3	75
5	Ultimate limit in size and performance of WSe ₂ vertical diodes. Nature Communications, 2018, 9, 5371.	5.8	63
6	Temperature-Dependent and Gate-Tunable Rectification in a Black Phosphorus/WS ₂ van der Waals Heterojunction Diode. ACS Applied Materials & Interfaces, 2018, 10, 13150-13157.	4.0	61
7	Enhanced photoresponse of ZnO quantum dot-decorated MoS ₂ thin films. RSC Advances, 2017, 7, 16890-16900.	1.7	59
8	Valorization of shrimp shell biowaste for environmental remediation: Efficient contender for CO ₂ adsorption and separation. Journal of Environmental Management, 2021, 299, 113661.	3.8	56
9	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
10	Thickness-dependent efficiency of directly grown graphene based solar cells. Carbon, 2019, 148, 187-195.	5.4	49
11	WS ₂ /GeSe/WS ₂ Bipolar Transistor-Based Chemical Sensor with Fast Response and Recovery Times. ACS Applied Materials & Interfaces, 2020, 12, 39524-39532.	4.0	48
12	Self-activated, urea modified microporous carbon cryogels for high-performance CO ₂ capture and separation. Carbon, 2022, 192, 14-29.	5.4	47
13	Comparison of Electrical and Photoelectrical Properties of ReS ₂ Field-Effect Transistors on Different Dielectric Substrates. ACS Applied Materials & Interfaces, 2018, 10, 32501-32509.	4.0	44
14	Ultrasonically derived WSe ₂ nanostructure embedded MXene hybrid composites for supercapacitors and hydrogen evolution reactions. Renewable Energy, 2022, 185, 585-597.	4.3	38
15	Electrical and photo-electrical properties of MoS ₂ nanosheets with and without an Al ₂ O ₃ capping layer under various environmental conditions. Science and Technology of Advanced Materials, 2016, 17, 166-176.	2.8	36
16	Study of double perovskites X ₂ InSbO ₆ (X = Sr, Ba) for renewable energy; alternative of organic-inorganic perovskites. Journal of Materials Research and Technology, 2022, 18, 4403-4412.	2.6	36
17	Appealing perspectives of structural, electronic, mechanical, and thermoelectric properties of Tl ₂ (Se). Tj ETQq1 1 0.784314 rgBT /Ov 110258.	1.9	34
18	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

#	ARTICLE	IF	CITATIONS
19	Bimetallic Cu/Fe MOF-Based Nanosheet Film via Binder-Free Drop-Casting Route: A Highly Efficient Urea-Electrolysis Catalyt. <i>Nanomaterials</i> , 2022, 12, 1916.	1.9	33
20	Putting DFT to the trial: First principles pressure dependent analysis on optical properties of cubic perovskite SrZrO ₃ . <i>Computational Condensed Matter</i> , 2015, 4, 32-39.	0.9	32
21	Study of new lead-free double perovskites halides Ti ₂ TiX ₆ (X = Cl, Br, I) for solar cells and renewable energy devices. <i>Journal of Solid State Chemistry</i> , 2022, 308, 122887.	1.4	31
22	Supercapacitor performance based on nitrogen and sulfur doped hierarchically porous carbons: Superior rate capability and cycle stability. <i>International Journal of Energy Research</i> , 2022, 46, 15602-15616.	2.2	31
23	p-GeSe/n-ReS ₂ Heterojunction Rectifier Exhibiting A Fast Photoresponse with Ultra-High Frequency Switching Applications. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100705.	1.9	29
24	Layer dependent magnetoresistance of vertical MoS ₂ magnetic tunnel junctions. <i>Nanoscale</i> , 2018, 10, 16703-16710.	2.8	27
25	Ultrafast and Highly Stable Photodetectors Based on p-GeSe/n-ReSe ₂ Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 47882-47894.	4.0	26
26	Two- and four-probe field-effect and Hall mobilities in transition metal dichalcogenide field-effect transistors. <i>RSC Advances</i> , 2016, 6, 60787-60793.	1.7	24
27	First principle study of optoelectronic and mechanical properties of lead-free double perovskites Cs ₂ SeX ₆ (X = Cl, Br, I). <i>Journal of Taibah University for Science</i> , 2022, 16, 155-162.	1.1	23
28	Effect of grain boundaries on electrical properties of polycrystalline graphene. <i>Carbon</i> , 2017, 112, 142-148.	5.4	22
29	Gate Tunable Transport in Graphene/MoS ₂ /(Cr/Au) Vertical Field-Effect Transistors. <i>Nanomaterials</i> , 2018, 8, 14.	1.9	22
30	Under Pressure DFT Investigations on Optical and Electronic Properties of PbZrO ₃ . <i>Acta Physica Polonica A</i> , 2018, 133, 105-113.	0.2	22
31	Van der Waals heterojunction diode composed of WS ₂ flake placed on p-type Si substrate. <i>Nanotechnology</i> , 2018, 29, 045201.	1.3	21
32	New lead-free double perovskites (Rb ₂ GeCl/Br) ₆ ; a promising materials for renewable energy applications. <i>Materials Chemistry and Physics</i> , 2021, 271, 124876.	2.0	21
33	Gate Modulation of the Spin-orbit Interaction in Bilayer Graphene Encapsulated by WS ₂ films. <i>Scientific Reports</i> , 2018, 8, 3412.	1.6	20
34	New lead-free double perovskites X ₂ Ge ₆ (X = K, Rb, Tl) ETQq0 0 0 rgBT /Over of Energy Research, 2021, 45, 19645-19652.	2.2	20
35	A facile route to a high-quality graphene/MoS ₂ vertical field-effect transistor with gate-modulated photocurrent response. <i>Journal of Materials Chemistry C</i> , 2017, 5, 2337-2343.	2.7	19
36	Room temperature ferromagnetism and thermoelectric behavior of calcium based spinel chalcogenides CaZ ₂ S ₄ (Z = Ti, V, Cr, Fe) for spintronic applications. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 167, 110742.	1.9	19

#	ARTICLE	IF	CITATIONS
37	Impact of 5d electrons on half metallic ferromagnetism, and thermoelectric properties of Cs ₂ Z(Cl/Br) ₆ (Z = Os, Ir) for spintronic applications. <i>Materials Chemistry and Physics</i> , 2022, 288, 126414.	2.0	17
38	Electrocatalytic and photocatalytic sustainable conversion of carbon dioxide to value-added chemicals: State-of-the-art progress, challenges, and future directions. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108219.	3.3	17
39	Surface spin accumulation due to the inverse spin Hall effect in WS ₂ crystals. <i>2D Materials</i> , 2019, 6, 011007.	2.0	15
40	First principle study of optoelectronic and thermoelectric properties of magnesium based MgX ₂ O ₄ (X = Ti, Zr, Hf, Sn, Pb, Bi, Sb, Bi) for spintronic applications. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108219.	1.4	14
41	A facile strategy for the preparation of bismuth ferrite nanoparticles: Influence of calcination temperature on structural, dielectric, and morphological characteristics. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 628, 127328.	2.3	13
42	Tailoring of band gap to tune the optical and thermoelectric properties of Sr _{1-x} BaxSnO ₃ stannates for clean energy; probed by DFT. <i>Chemical Physics</i> , 2021, 551, 111322.	0.9	12
43	Development of directly grown "graphene" silicon Schottky barrier solar cell using co-doping technique. <i>International Journal of Energy Research</i> , 2022, 46, 11510-11522.	2.2	11
44	First principle study of half metallic ferromagnetism and transport properties of spinel ZnFe ₂ (S/Se) ₄ for spintronic. <i>Physica Scripta</i> , 2021, 96, 125816.	1.2	10
45	Synthesis and characterization of Al and Zr-dual-doped lithium cobalt oxide cathode for Li-ion batteries using a facile hydrothermal approach. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 641, 128493.	2.3	9
46	Study of narrow band gap double perovskites (Sr/Ba) ₂ BB'O ₆ (B = In, Tl, B' = Sb, Bi) for optical, thermoelectric, and mechanical properties. <i>Materials Today Communications</i> , 2022, 31, 103547.	0.9	9
47	Structural, spectral, dielectric, and magnetic properties of indium substituted Cu _{0.5} Zn _{0.5} Fe _{2-x} O ₄ magnetic oxides. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 27-41.	1.1	8
48	Room temperature half metallic ferromagnetism due to Os/Ir(5d) in double perovskites. <i>Journal of Alloys and Compounds</i> , 2022, 896, 163130.	2.8	5
49	Tailoring the multiferroic properties of BiFeO ₃ by low energy ions implantation. <i>Journal of Electroceramics</i> , 0, , 1.	0.8	1