

Muhammad Ali

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

502
citations

686830

13
h-index

713013

21
g-index

21
all docs

21
docs citations

21
times ranked

553
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic and magnetic properties of graphene, silicene and germanene with varying vacancy concentration. <i>AIP Advances</i> , 2017, 7, .	0.6	58
2	Engineering MoTe ₂ and Janus SeMoTe nanosheet structures: First-principles roadmap and practical uses in hydrogen evolution reactions and symmetric supercapacitors. <i>Nano Energy</i> , 2021, 87, 106161.	8.2	50
3	MoS ₂ @X ₂ C (X=Mo or W) hybrids for enhanced supercapacitor and hydrogen evolution performances. <i>Chemical Engineering Journal</i> , 2021, 421, 127843.	6.6	49
4	High selectivity of N-doped ZnO nano-ribbons in detecting H ₂ , O ₂ and CO ₂ molecules: Effect of negative-differential resistance on gas-sensing. <i>Sensors and Actuators B: Chemical</i> , 2018, 270, 167-178.	4.0	46
5	Adsorption of NO and NO ₂ molecules on defected-graphene and ozone-treated graphene: First-principles analysis. <i>Surface Science</i> , 2019, 684, 28-36.	0.8	39
6	One-Pot Synthesis of W ₂ C/WS ₂ Hybrid Nanostructures for Improved Hydrogen Evolution Reactions and Supercapacitors. <i>Nanomaterials</i> , 2020, 10, 1597.	1.9	39
7	Freestanding doped silicon nanocrystals synthesized by plasma. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 314006.	1.3	30
8	Theoretical evaluation and experimental investigation of layered 2H/1T-phase MoS ₂ and its reduced graphene-oxide hybrids for hydrogen evolution reactions. <i>Journal of Alloys and Compounds</i> , 2021, 868, 159272.	2.8	22
9	A Study on Natural Radioactivity in Khewra Salt Mines, Pakistan. <i>Journal of Radiation Research</i> , 2012, 53, 411-421.	0.8	21
10	Assessment of radiological hazard of NORM in Margalla Hills limestone, Pakistan. <i>Environmental Monitoring and Assessment</i> , 2012, 184, 4623-4634.	1.3	21
11	High gas-sensing selectivity of bilaterally edge-doped graphene nano-ribbons towards detecting NO ₂ , O ₂ and SO ₃ gas molecules: Ab-initio investigation. <i>Applied Surface Science</i> , 2020, 514, 145866.	3.1	20
12	First principles study on the functionalization of graphene with Fe catalyst for the detection of CO ₂ : Effect of catalyst clustering. <i>Applied Surface Science</i> , 2020, 502, 144153.	3.1	18
13	Origins of Negative Differential Resistance in N-doped ZnO Nano-ribbons: Ab-initio Investigation. <i>Scientific Reports</i> , 2019, 9, 9914.	1.6	15
14	Formation, Structures and Electronic Properties of Silicene Oxides on Ag(111). <i>Journal of Materials Science and Technology</i> , 2017, 33, 751-757.	5.6	12
15	Platinum Nanoparticle Based Dipâ€Catalyst for Facile Hydrogenation of Quinoline, Unfunctionalized Olefins, and Imines. <i>ChemistrySelect</i> , 2020, 5, 14827-14838.	0.7	12
16	Role of defects and dopants in zinc oxide nanotubes for gas sensing and energy storage applications. <i>International Journal of Energy Research</i> , 2020, 44, 10926-10936.	2.2	11
17	Assessment of radiological hazards of Lawrencepur sand, Pakistan using gamma spectrometry. <i>Radiation Protection Dosimetry</i> , 2013, 157, 73-84.	0.4	10
18	Determination of Radioactivity Levels in the Virgin and Fertilized Soil Samples of Rawalpindi District, Pakistan. <i>Iranian Journal of Science and Technology, Transaction A: Science</i> , 2021, 45, 1085-1095.	0.7	10

#	ARTICLE	IF	CITATIONS
19	Catalyst-induced gas-sensing selectivity in ZnO nanoribbons: Ab-initio investigation at room temperature. Applied Surface Science, 2020, 505, 144602.	3.1	8
20	Relevance of defects in ZnO nanotubes for selective adsorption of H ₂ S and CO ₂ gas molecules: Ab-initio investigation. Results in Physics, 2020, 16, 102907.	2.0	6
21	Electronic and thermoelectric properties of atomically thin C ₃ Si ₃ /C and C ₃ Ge ₃ /C superlattices. Nanotechnology, 2018, 29, 045402.	1.3	5