

Faisal Ul Rehman

List of Publications by Year in descending order

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47
papers

881
citations

430442
18
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525886
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g-index

47
all docs

47
docs citations

47
times ranked

627
citing authors

#	ARTICLE	IF	CITATIONS
1	Transition Metal Dichalcogenide-based Membranes for Water Desalination, Gas Separation, and Energy Storage. Separation and Purification Reviews, 2023, 52, 43-57.	2.8	27
2	Recent progress on fabrication methods of graphene-based membranes for water purification, gas separation, and energy sustainability. Reviews in Inorganic Chemistry, 2023, 43, 13-31.	1.8	12
3	Facile synthesis of Zn-doped CdS nanowires with efficient photocatalytic performance. Environmental Technology (United Kingdom), 2022, 43, 1783-1790.	1.2	20
4	Recent progress in decontamination system against chemical and biological materials: challenges and future perspectives. Reviews in Inorganic Chemistry, 2022, 42, 283-295.	1.8	9
5	Mechanistic understanding and design of non-noble metal-based single-atom catalysts supported on two-dimensional materials for CO ₂ electroreduction. Journal of Materials Chemistry A, 2022, 10, 5813-5834.	5.2	28
6	Functionalised graphene oxide-based nanofiltration membranes with enhanced molecular separation performance. Materials Research Innovations, 2022, 26, 373-381.	1.0	12
7	Graphene-based composite membranes for isotope separation: challenges and opportunities. Reviews in Inorganic Chemistry, 2022, 42, 327-336.	1.8	13
8	Highly Sodiophilic, Defect-Rich, Lignin-Derived Skeletal Carbon Nanofiber Host for Sodium Metal Batteries. Advanced Energy Materials, 2022, 12, .	10.2	47
9	Facile synthesis of zinc oxide nanostructures and their antibacterial and antioxidant properties. International Nano Letters, 2022, 12, 205-213.	2.3	8
10	Segmentation of Brain Tumor from Medical Images with Novel U-Shaped Encoder Decoder Architecture. , 2022, , .		0
11	Segmentation of Images Using Deep Learning: A Survey. , 2022, , .		7
12	Using Machine Learning Algorithms to Detect Dysplasia in Barrett's Esophagus. , 2022, , .		1
13	Recent Development in Laminar Transition Metal Dichalcogenides-Based Membranes Towards Water Desalination: A Review. Chemical Record, 2022, 22, .	2.9	24
14	An experimental study of carbonyl powder power inductor cracking during reflow process. Soldering and Surface Mount Technology, 2021, 33, 86-93.	0.9	0
15	An Intelligent Hybrid Scheme for Identification of Faults in Industrial Ball Screw Linear Motion Systems. IEEE Access, 2021, 9, 35136-35150.	2.6	14
16	Hydrazine Detection during Ammonia Electro-oxidation Using an Aggregation-Induced Emission Dye. Journal of the American Chemical Society, 2021, 143, 2433-2440.	6.6	41
17	Recent Advances in MXene-Based Separation Membranes. ChemBioEng Reviews, 2021, 8, 110-120.	2.6	50
18	Ionic liquids enhanced performance of PVC gels actuator. Journal of Applied Polymer Science, 2021, 138, 50710.	1.3	7

#	ARTICLE	IF	CITATIONS
19	Graphene-based Materials for Fighting Coronavirus Disease 2019: Challenges and Opportunities. ChemBioEng Reviews, 2021, 8, 67-77.	2.6	40
20	Recent developments in carbon nanotubes-based perovskite solar cells with boosted efficiency and stability. Zeitschrift Fur Physikalische Chemie, 2021, 235, 1539-1572.	1.4	18
21	Engineering electrocatalyst for low-temperature N ₂ reduction to ammonia. Materials Today, 2021, 44, 136-167.	8.3	37
22	Morphology, chemistry, performance trident: Insights from hollow, mesoporous carbon nanofibers for dendrite-free sodium metal batteries. Nano Energy, 2021, 86, 106132.	8.2	34
23	High yield synthesis of transition metal fluorides (CoF ₂ , NiF ₂ , and NH ₄ MnF ₃) nanoparticles with excellent electrochemical performance. Inorganic Chemistry Communication, 2021, 130, 108751.	1.8	25
24	Brain Tumor Detection from MR Images using Image Process Techniques and Tools in Matlab Software. International Journal of Advanced Medical Sciences and Technology, 2021, 1, 1-4.	0.0	0
25	Two-dimensional graphene oxide based membranes for ionic and molecular separation: Current status and challenges. Journal of Environmental Chemical Engineering, 2021, 9, 105605.	3.3	63
26	Laser-irradiated Holey Graphene-supported Single-Atom Catalyst towards Hydrogen Evolution and Oxygen Reduction. Advanced Energy Materials, 2021, 11, 2101619.	10.2	43
27	Sustainability consolidation via employment of biomimetic ecomaterials with an accentuated photo-catalytic potential: emerging progressions. Reviews in Inorganic Chemistry, 2021, 41, 131-150.	1.8	9
28	Two-Dimensional Transition Metal Carbides and Nitrides (MXenes) for Water Purification and Antibacterial Applications. Membranes, 2021, 11, 869.	1.4	33
29	Brain Tumor Detection from MR Images using Image Process Techniques and Tools in Matlab Software. International Journal of Advanced Medical Sciences and Technology, 2021, 1, 1-4.	0.0	1
30	Implementation of SLAM by using a Mobile Agrirobot in a Simulated Indoor Environment in Gazebo. , 2021, , .		2
31	Multi-Sensor SLAM for efficient Navigation of a Mobile Robot. , 2021, , .		2
32	A Region-Based Deep Level Set Formulation for Vertebral Bone Segmentation of Osteoporotic Fractures. Journal of Digital Imaging, 2020, 33, 191-203.	1.6	46
33	Nanomembranes for water treatment. , 2020, , 207-240.		17
34	Selective Sensing of Cu ²⁺ and Fe ³⁺ Ions with Vis-Excitation using Fluorescent Eu ³⁺ -Induced Aggregates of Polysaccharides (EIAP) in Mammalian Cells and Aqueous Systems. Journal of Hazardous Materials, 2020, 399, 122991.	6.5	33
35	Identification and validation of key genes with prognostic value in non-small cell lung cancer via integrated bioinformatics analysis. Thoracic Cancer, 2020, 11, 851-866.	0.8	22
36	Survival-associated alternative splicing signatures in non-small cell lung cancer. Aging, 2020, 12, 5878-5893.	1.4	24

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37	Effect and biomarker of Nivolumab for non-small-cell lung cancer. Biomedicine and Pharmacotherapy, 2019, 117, 109199.	2.5	22
38	A Robust Scheme of Vertebrae Segmentation for Medical Diagnosis. IEEE Access, 2019, 7, 120387-120398.	2.6	13
39	Novel 3D hierarchically structured cauliflower-shaped SnO ₂ nanospheres as effective photoelectrodes in hybrid photovoltaics. Nanoscale Advances, 2019, 1, 2167-2173.	2.2	1
40	A Novel Framework to Segment out Cervical Vertebrae. , 2019, , .		9
41	Low RH and temperature effect on 0201 sized passive components during SMT mounting. Soldering and Surface Mount Technology, 2019, 32, 48-54.	0.9	1
42	Fault Signal Detection of Linear Actuators based on Intelligent Remnant Filter. , 2019, , .		0
43	A multifunctional blade-coated ZnO seed layer for high-efficiency perovskite solar cells. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	11
44	Enhanced efficiency and stability of perovskite solar cells using polymer-coated bilayer zinc oxide nanocrystals as the multifunctional electron-transporting layer. Journal of Colloid and Interface Science, 2019, 538, 426-432.	5.0	10
45	Solution-processed barium hydroxide modified boron-doped ZnO bilayer electron transporting materials: Toward stable perovskite solar cells with high efficiency of over 20.5%. Journal of Colloid and Interface Science, 2019, 535, 353-362.	5.0	15
46	Thin films of nanostructured ZnO used as an electron-transporting material for improved performance of perovskite solar cells. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	13
47	Electrosprayed Polymer-Hybridized Multidoped ZnO Mesoscopic Nanocrystals Yield Highly Efficient and Stable Perovskite Solar Cells. ACS Omega, 2018, 3, 9648-9657.	1.6	17