

Muhammad Rauf

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

2,243
citations

331670

21
h-index

454955

30
g-index

30
all docs

30
docs citations

30
times ranked

3490
citing authors

#	ARTICLE	IF	CITATIONS
1	3-Dimensional membrane capsules: Synthesis modulations for the remediation of environmental pollutants – A critical review. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 1092-1153.	12.8	6
2	Highly stable N-containing polymer-based Fe/N _x /C electrocatalyst for alkaline anion exchange membrane fuel cell applications. <i>Progress in Natural Science: Materials International</i> , 2022, 32, 27-33.	4.4	11
3	Zeolitic-imidazolate frameworks-derived Co ₃ S ₄ /NiS@Ni foam heterostructure as highly efficient electrocatalyst for oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 13616-13628.	7.1	9
4	Revealing the concentration of hydrogen peroxide in fuel cell catalyst layers by an in-operando approach. <i>Chinese Journal of Catalysis</i> , 2022, 43, 1918-1926.	14.0	7
5	Breaking the Limitation of Elevated Coulomb Interaction in Crystalline Carbon Nitride for Visible and Near-Infrared Light Photoactivity. <i>Advanced Science</i> , 2022, 9, .	11.2	22
6	Plasma enhanced atomic-layer-deposited nickel oxide on Co ₃ O ₄ arrays as highly active electrocatalyst for oxygen evolution reaction. <i>Journal of Power Sources</i> , 2021, 481, 228925.	7.8	31
7	Broad band white-light-emitting Y ₅ Si ₃ O ₁₂ N:Ce ³⁺ /Dy ³⁺ oxonitridosilicate phosphors for solid state lighting applications. <i>Journal of Luminescence</i> , 2021, 229, 117687.	3.1	17
8	Noble metal-free NiCo ₂ S ₄ /CN sheet-on-sheet heterostructure for highly efficient visible-light-driven photocatalytic hydrogen evolution. <i>Journal of Alloys and Compounds</i> , 2021, 853, 157284.	5.5	26
9	Gas diffusion electrodes for H ₂ O ₂ production and their applications for electrochemical degradation of organic pollutants in water: A review. <i>Science of the Total Environment</i> , 2021, 759, 143459.	8.0	70
10	On the Interaction of Surfactants with Gallium-Based Liquid Metals. <i>ChemistrySelect</i> , 2021, 6, 10625-10636.	1.5	16
11	Facile one-pot synthesis of mesoporous g-C ₃ N ₄ nanosheets with simultaneous iodine doping and N-vacancies for efficient visible-light-driven H ₂ evolution performance. <i>Catalysis Science and Technology</i> , 2020, 10, 549-559.	4.1	39
12	N-Doped porous tremella-like Fe ₃ C/C electrocatalysts derived from metal-organic frameworks for oxygen reduction reaction. <i>Dalton Transactions</i> , 2020, 49, 797-807.	3.3	29
13	A Critical Review on Crystal Growth Techniques for Scalable Deposition of Photovoltaic Perovskite Thin Films. <i>Materials</i> , 2020, 13, 4851.	2.9	38
14	Novel Heteroatom-Doped Fe/N/C Electrocatalysts With Superior Activities for Oxygen Reduction Reaction in Both Acid and Alkaline Solutions. <i>Frontiers in Chemistry</i> , 2020, 8, 78.	3.6	10
15	Gaseous bubble-assisted in-situ construction of worm-like porous g-C ₃ N ₄ with superior visible light photocatalytic performance. <i>Applied Catalysis A: General</i> , 2019, 573, 13-21.	4.3	24
16	Facile Synthesis of Mayenite Electride Nanoparticles Encapsulated in Graphitic Shells Like Carbon Nano Onions: Non-noble-metal Electrocatalysts for Oxygen Reduction Reaction (ORR). <i>Frontiers in Chemistry</i> , 2019, 7, 934.	3.6	27
17	New Strategy for Polysulfide Protection Based on Atomic Layer Deposition of TiO ₂ onto Ferroelectric-Encapsulated Cathode: Toward Ultrastable Free-Standing Room Temperature Sodium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1705537.	14.9	167
18	Liquid-inlet online electrochemical mass spectrometry for the in operando monitoring of direct ethanol fuel cells. <i>Electrochemistry Communications</i> , 2018, 87, 91-95.	4.7	7

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19	Surface Fluorination to Boost the Stability of the Fe/N/C Cathode in Proton Exchange Membrane Fuel Cells. <i>ChemElectroChem</i> , 2018, 5, 1914-1921.	3.4	61
20	Constructing canopy-shaped molecular architectures to create local Pt surface sites with high tolerance to H ₂ S and CO for hydrogen electrooxidation. <i>Energy and Environmental Science</i> , 2018, 11, 166-171.	30.8	32
21	Non-precious nanostructured materials by electrospinning and their applications for oxygen reduction in polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2018, 408, 17-27.	7.8	45
22	Suppression Effect of Small Organic Molecules on Oxygen Reduction Activity of Fe/N/C Catalysts. <i>ACS Energy Letters</i> , 2018, 3, 1396-1401.	17.4	31
23	Controllable synthesis of graphitic carbon nitride nanomaterials for solar energy conversion and environmental remediation: the road travelled and the way forward. <i>Catalysis Science and Technology</i> , 2018, 8, 4576-4599.	4.1	99
24	Constructing a Triple-Phase Interface in Micropores to Boost Performance of Fe/N/C Catalysts for Direct Methanol Fuel Cells. <i>ACS Energy Letters</i> , 2017, 2, 645-650.	17.4	89
25	Nitrogen-doped carbon nanotubes with encapsulated Fe nanoparticles as efficient oxygen reduction catalyst for alkaline membrane direct ethanol fuel cells. <i>Carbon</i> , 2017, 125, 605-613.	10.3	36
26	Insight into the different ORR catalytic activity of Fe/N/C between acidic and alkaline media: Protonation of pyridinic nitrogen. <i>Electrochemistry Communications</i> , 2016, 73, 71-74.	4.7	116
27	Doping of an Fe/N/C ORR Catalyst for Polymer Electrolyte Membrane Fuel Cells with High Power Density. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9907-9910.	13.8	396
28	Aminothiazole-derived N,S,Fe-doped graphene nanosheets as high performance electrocatalysts for oxygen reduction. <i>Chemical Communications</i> , 2015, 51, 17092-17095.	4.1	85
29	Phenylenediamine-Based FeN _x /C Catalyst with High Activity for Oxygen Reduction in Acid Medium and Its Active-Site Probing. <i>Journal of the American Chemical Society</i> , 2014, 136, 10882-10885.	13.7	566