Md Ariful Ahsan

List of Publications by Year
in descending order

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34 papers	2,187 citations	218677 26 h-index	361022 35 g-index
35 all docs	35 docs citations	35 times ranked	2077 citing authors

#	Article	IF	Citations
1	Tuning of Trifunctional NiCu Bimetallic Nanoparticles Confined in a Porous Carbon Network with Surface Composition and Local Structural Distortions for the Electrocatalytic Oxygen Reduction, Oxygen and Hydrogen Evolution Reactions. Journal of the American Chemical Society, 2020, 142, 14688-14701.	13.7	231
2	Coâ€“Cu Bimetallic Metal Organic Framework Catalyst Outperforms the Pt/C Benchmark for Oxygen Reduction. Journal of the American Chemical Society, 2021, 143, 4064-4073.	13.7	175
3	Sustainable synthesis and remarkable adsorption capacity of MOF/graphene oxide and MOF/CNT based hybrid nanocomposites for the removal of Bisphenol A from water. Science of the Total Environment, 2019, 673, 306-317.	8.0	143
4	Tuning the Intermolecular Electron Transfer of Low-Dimensional and Metal-Free BCN/C₆₀ Electrocatalysts via Interfacial Defects for Efficient Hydrogen and Oxygen Electrochemistry. Journal of the American Chemical Society, 2021, 143, 1203-1215.	13.7	140
5	Tailoring the Interfacial Interactions of van der Waals 1T-MoS₂/C₆₀ Heterostructures for High-Performance Hydrogen Evolution Reaction Electrocatalysis. Journal of the American Chemical Society, 2020, 142, 17923-17927.	13.7	112
6	Nanoscale nickel metal organic framework decorated over graphene oxide and carbon nanotubes for water remediation. Science of the Total Environment, 2020, 698, 134214.	8.0	95
7	Adsorptive removal of methylene blue, tetracycline and Cr(VI) from water using sulfonated tea waste. Environmental Technology and Innovation, 2018, 11, 23-40.	6.1	84
8	Ultrafast catalytic reduction of environmental pollutants in water via MOF-derived magnetic Ni and Cu nanoparticles encapsulated in porous carbon. Applied Surface Science, 2019, 497, 143608.	6.1	79
9	Carbonization of Co-BDC MOF results in magnetic C@Co nanoparticles that catalyze the reduction of methyl orange and 4-nitrophenol in water. Journal of Molecular Liquids, 2019, 290, 111059.	4.9	76
10	Fe nanoparticles encapsulated in MOF-derived carbon for the reduction of 4-nitrophenol and methyl orange in water. Catalysis Communications, 2019, 130, 105753.	3.3	75
11	Fabrication of bulk piezoelectric and dielectric BaTiO₃ ceramics using paste extrusion 3D printing technique. Journal of the American Ceramic Society, 2019, 102, 3685-3694.	3.8	69
12	Biomass conversion of saw dust to a functionalized carbonaceous materials for the removal of Tetracycline, Sulfamethoxazole and Bisphenol A from water. Journal of Environmental Chemical Engineering, 2018, 6, 4329-4338.	6.7	65
13	Controlling the Interfacial Charge Polarization of MOF-Derived 0Dâ€“2D vdW Architectures as a Unique Strategy for Bifunctional Oxygen Electrocatalysis. ACS Applied Materials & Interfaces, 2022, 14, 3919-3929.	8.0	63
14	Adsorptive Removal of Sulfamethoxazole and Bisphenol A from Contaminated Water using Functionalized Carbonaceous Material Derived from Tea Leaves. Journal of Environmental Chemical Engineering, 2018, 6, 4215-4225.	6.7	62
15	Low-dimensional heterostructures for advanced electrocatalysis: an experimental and computational perspective. Chemical Society Reviews, 2022, 51, 812-828.	38.1	62
16	Removal of methylene blue and tetracycline from water using peanut shell derived adsorbent prepared by sulfuric acid reflux. Journal of Environmental Chemical Engineering, 2019, 7, 102816.	6.7	61
17	Sodium rhodizonate induced formation of gold nanoparticles supported on cellulose fibers for catalytic reduction of 4-nitrophenol and organic dyes. Journal of Environmental Chemical Engineering, 2017, 5, 4185-4193.	6.7	54
18	Conversion of waste tire rubber into a high-capacity adsorbent for the removal of methylene blue, methyl orange, and tetracycline from water. Journal of Environmental Chemical Engineering, 2018, 6, 3070-3082.	6.7	54

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19	Recent Advancement of Biopolymers and Their Potential Biomedical Applications. Journal of Polymers and the Environment, 2022, 30, 51-74.	5.0	53
20	Biosorption of bisphenol A and sulfamethoxazole from water using sulfonated coffee waste: Isotherm, kinetic and thermodynamic studies. Journal of Environmental Chemical Engineering, 2018, 6, 6602-6611.	6.7	50
21	Nature-inspired hierarchical materials for sensing and energy storage applications. Chemical Society Reviews, 2021, 50, 4856-4871.	38.1	49
22	Adsorption of methylene blue and tetracycline onto biomass-based material prepared by sulfuric acid reflux. RSC Advances, 2018, 8, 32545-32557.	3.6	45
23	Magnetic responsive mesoporous alginate/Î²-cyclodextrin polymer beads enhance selectivity and adsorption of heavy metal ions. International Journal of Biological Macromolecules, 2022, 207, 826-840.	7.5	44
24	Spent tea leaves templated synthesis of highly active and durable cobalt-based trifunctional versatile electrocatalysts for hydrogen and oxygen evolution and oxygen reduction reactions. Green Chemistry, 2020, 22, 6967-6980.	9.0	38
25	A New Class of Molecular Electrocatalysts for Hydrogen Evolution: Catalytic Activity of M₃N@C_{2n} (2n = 68, 78, and 80) Fullerenes. Journal of the American Chemical Society, 2021, 143, 6037-6042.	13.7	37
26	Bimetallic CoMoS Composite Anchored to Biocarbon Fibers as a High-Capacity Anode for Li-Ion Batteries. ACS Omega, 2018, 3, 10243-10249.	3.5	31
27	3D printing of polyvinylidene fluoride/photopolymer resin blends for piezoelectric pressure sensing application using the stereolithography technique. MRS Communications, 2019, 9, 1115-1123.	1.8	26
28	Sulfonated resorcinol-formaldehyde microspheres as high-capacity regenerable adsorbent for the removal of organic dyes from water. Journal of Environmental Chemical Engineering, 2017, 5, 5270-5279.	6.7	22
29	Magnetically separable mesoporous alginate polymer beads assist adequate removal of aqueous methylene blue over broad solution pH. Journal of Cleaner Production, 2021, 319, 128694.	9.3	20
30	High cytotoxic activity of ZnO@leucovorin nanocomposite based materials against an MCF-7 cell model. Analytical Methods, 2020, 12, 2176-2184.	2.7	18
31	Graphynes as emerging 2D-platforms for electronic and energy applications: a computational perspective. Materials Chemistry Frontiers, 2021, 5, 6392-6412.	5.9	17
32	Magnetic biochar for removal of perfluorooctane sulphonate (PFOS): Interfacial interaction and adsorption mechanism. Environmental Technology and Innovation, 2022, 28, 102593.	6.1	16
33	Theoretical and Experimental Insights into the Possible Interfacial Interactions between Î²-Glucan and Fat Molecules in Aqueous Media. Journal of Physical Chemistry B, 2021, 125, 13730-13743.	2.6	9
34	Facile benchtop reactor design using dendrimer-templating technology for the fabrication of polyethyleneimine-coated CuO nanoparticles on the gram scale. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, 041402.	2.1	1