Javeed Mahmood

List of Publications by Citations

53 papers	3,912 citations	22 h-index	59 g-index
59 ext. papers	4,791 ext. citations	12.1 avg, IF	5.56 L-index

#	Paper	IF	Citations
53	An efficient and pH-universal ruthenium-based catalyst for the hydrogen evolution reaction. *Nature Nanotechnology*, **2017**, 12, 441-446	28.7	857
52	Nitrogenated holey two-dimensional structures. *Nature Communications*, **2015**, 6, 6486	17.4	684
51	Edge-carboxylated graphene nanosheets via ball milling. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 5588-93	11.5	496
50	Two-dimensional polyaniline (C3N) from carbonized organic single crystals in solid state. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 7414-9	11.5	278
49	2D Frameworks of C N and C N as New Anode Materials for Lithium-Ion Batteries. *Advanced Materials*, **2017**, 29, 1702007	24	196
48	Ruthenium anchored on carbon nanotube electrocatalyst for hydrogen production with enhanced Faradaic efficiency. *Nature Communications*, **2020**, 11, 1278	17.4	156
47	Direct Synthesis of a Covalent Triazine-Based Framework from Aromatic Amides. *Angewandte Chemie - International Edition*, **2018**, 57, 8438-8442	16.4	129
46	Cobalt Oxide Encapsulated in C2N-h2D Network Polymer as a Catalyst for Hydrogen Evolution. *Chemistry of Materials*, **2015**, 27, 4860-4864	9.6	105
45	Defect-Free Encapsulation of Fe in 2D Fused Organic Networks as a Durable Oxygen Reduction Electrocatalyst. *Journal of the American Chemical Society*, **2018**, 140, 1737-1742	16.4	103
44	Recent advances in ruthenium-based electrocatalysts for the hydrogen evolution reaction. *Nanoscale Horizons*, **2020**, 5, 43-56	10.8	101
43	Fe@C2N: A highly-efficient indirect-contact oxygen reduction catalyst. *Nano Energy*, **2018**, 44, 304-310	17.1	85
42	Macroporous Inverse Opal-like MoC with Incorporated Mo Vacancies for Significantly Enhanced Hydrogen Evolution. *ACS Nano*, **2017**, 11, 7527-7533	16.7	84
41	Two-Dimensional Covalent Organic Frameworks for Optoelectronics and Energy Storage. *ChemNanoMat*, **2017**, 3, 373-391	3.5	82
40	Encapsulating Iridium Nanoparticles Inside a 3D Cage-Like Organic Network as an Efficient and Durable Catalyst for the Hydrogen Evolution Reaction. *Advanced Materials*, **2018**, 30, e1805606	24	69
39	Controlled Fabrication of Hierarchically Structured Nitrogen-Doped Carbon Nanotubes as a Highly Active Bifunctional Oxygen Electrocatalyst. *Advanced Functional Materials*, **2017**, 27, 1605717	15.6	62
38	Synergistic Coupling Derived Cobalt Oxide with Nitrogenated Holey Two-Dimensional Matrix as an Efficient Bifunctional Catalyst for Metal-Air Batteries. *ACS Nano*, **2019**, 13, 5502-5512	16.7	62
37	Porous Cobalt Phosphide Polyhedrons with Iron Doping as an Efficient Bifunctional Electrocatalyst. *Small*, **2017**, 13, 1701167	11	59

36	A Robust 3D Cage-like Ultramicroporous Network Structure with High Gas-Uptake Capacity. *Angewandte Chemie - International Edition*, **2018**, 57, 3415-3420	16.4	34
35	Molybdenum-Based Carbon Hybrid Materials to Enhance the Hydrogen Evolution Reaction. *Chemistry - A European Journal*, **2018**, 24, 18158-18179	4.8	33
34	Direct Synthesis of a Covalent Triazine-Based Framework from Aromatic Amides. *Angewandte Chemie*, **2018**, 130, 8574-8578	3.6	29
33	Organic Ferromagnetism: Trapping Spins in the Glassy State of an Organic Network Structure. *CheM*, **2018**, 4, 2357-2369	16.2	29
32	Robust fused aromatic pyrazine-based two-dimensional network for stably cocooning iron nanoparticles as an oxygen reduction electrocatalyst. *Nano Energy*, **2019**, 56, 581-587	17.1	24
31	Fused Aromatic Network Structures as a Platform for Efficient Electrocatalysis. *Advanced Materials*, **2019**, 31, e1805062	24	22
30	Scalable Synthesis of Pure and Stable Hexaaminobenzene Trihydrochloride. *Synlett*, **2013**, 24, 246-248	2.2	18
29	Vertical two-dimensional layered fused aromatic ladder structure. *Nature Communications*, **2020**, 11, 2021	17.4	14
28	Nitrogen-rich two-dimensional porous polybenzimidazole network as a durable metal-free electrocatalyst for a cobalt reduction reaction in organic dye-sensitized solar cells. *Nano Energy*, **2017**, 34, 533-540	17.1	11
27	Identifying the electrocatalytic active sites of a Ru-based catalyst with high Faraday efficiency in CO2-saturated media for an aqueous Zn□CO2 system. *Journal of Materials Chemistry A*, **2020**, 8, 14927-14934	13	10
26	Two-dimensional amine and hydroxy functionalized fused aromatic covalent organic framework. *Communications Chemistry*, **2020**, 3,	6.3	10
25	Metal (M□= Ru, Pd and Co) embedded in C2N with enhanced lithium storage properties. *Materials Today Energy*, **2019**, 14, 100359	7	9
24	Forming a three-dimensional porous organic network via solid-state explosion of organic single crystals. *Nature Communications*, **2017**, 8, 1599	17.4	9
23	Forming layered conjugated porous BBL structures. *Polymer Chemistry*, **2019**, 10, 4185-4193	4.9	6
22	Recent Progress in Porous Fused Aromatic Networks and Their Applications. *Small Science*, **2021**, 1, 2000007		6
21	Fused Aromatic Network with Exceptionally High Carrier Mobility. *Advanced Materials*, **2021**, 33, e2004707	24	6
20	Room-Temperature Organic Ferromagnetism. *CheM*, **2019**, 5, 1012-1014	16.2	4
19	A Robust 3D Cage-like Ultramicroporous Network Structure with High Gas-Uptake Capacity. *Angewandte Chemie*, **2018**, 130, 3473-3478	3.6	4

18	Unusually Stable Triazine-based Organic Superstructures. *Angewandte Chemie - International Edition*, **2016**, 55, 7413-7	16.4	4
17	Scalable Synthesis of Tetrapodal Octaamine. *European Journal of Organic Chemistry*, **2019**, 2019, 2335-2338	3.0	4
16	Low-overpotential overall water splitting by a cooperative interface of cobalt-iron hydroxide and iron oxyhydroxide. *Cell Reports Physical Science*, **2022**, 3, 100762	6.1	3
15	A facile synthesis of novel unsymmetrical N-(4-oxo-2-phenyl-3(4H)-quinazolinoyl)-N-(aryl)acetamidines. *Chinese Chemical Letters*, **2010**, 21, 905-910	8.1	2
14	Fused aromatic networks as a new class of gas hydrate inhibitors. *Chemical Engineering Journal*, **2021**, 133691	14.7	2
13	Iron encased organic networks with enhanced lithium storage properties. *Energy Storage*, **2020**, 2, e114	2.8	2
12	Hydrogen Evolution Reaction: Encapsulating Iridium Nanoparticles Inside a 3D Cage-Like Organic Network as an Efficient and Durable Catalyst for the Hydrogen Evolution Reaction (Adv. Mater. 52/2018). *Advanced Materials*, **2018**, 30, 1870401	24	2
11	Electrocatalyts: Controlled Fabrication of Hierarchically Structured Nitrogen-Doped Carbon Nanotubes as a Highly Active Bifunctional Oxygen Electrocatalyst (Adv. Funct. Mater. 9/2017). *Advanced Functional Materials*, **2017**, 27,	15.6	1
10	Electrocatalysis: Porous Cobalt Phosphide Polyhedrons with Iron Doping as an Efficient Bifunctional Electrocatalyst (Small 40/2017). *Small*, **2017**, 13,	11	1
9	Direct conversion of aromatic amides into crystalline covalent triazine frameworks by a condensation mechanism. *Cell Reports Physical Science*, **2021**, 2, 100653	6.1	1
8	Unusually Stable Triazine-based Organic Superstructures. *Angewandte Chemie*, **2016**, 128, 7539-7543	3.6	1
7	Synthesis of Saddle-Shape Octaaminotetraphenylene Octahydrochloride. *Journal of Organic Chemistry*, **2021**, 86, 14398-14403	4.2	1
6	3D Porous Fused Aromatic Networks for High Performance Gas and Iodine Uptakes. *Advanced Materials Interfaces*, **2021**, 8, 2101373	4.6	0
5	Anomalous phonon softening of G-band in compressed graphitic carbon nitride due to strong electrostatic repulsion. *Applied Physics Letters*, **2021**, 118, 023103	3.4	0
4	Fused aromatic networks with the different spatial arrangement of structural units. *Cell Reports Physical Science*, **2021**, 100502	6.1	0
3	In-Plane Oriented Two-Dimensional Conjugated Metal–Organic Framework Films for High-Performance Humidity Sensing1146-1153		0
2	3D Porous Fused Aromatic Networks for High Performance Gas and Iodine Uptakes (Adv. Mater. Interfaces 22/2021). *Advanced Materials Interfaces*, **2021**, 8, 2170128	4.6	
1	Fused Aromatic Network Structures: Fused Aromatic Network with Exceptionally High Carrier Mobility (Adv. Mater. 9/2021). *Advanced Materials*, **2021**, 33, 2170063	24	