Javeed Mahmood

List of Publications by Year
in descending order

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56 papers	5,676 citations	218677 26 h-index	175258 52 g-index
59 all docs	59 docs citations	59 times ranked	7487 citing authors

#	Article	IF	Citations
1	An efficient and pH-universal ruthenium-based catalyst for the hydrogen evolution reaction. Nature Nanotechnology, 2017, 12, 441-446.	31.5	1,271
2	Nitrogenated holey two-dimensional structures. Nature Communications, 2015, 6, 6486.	12.8	923
3	Edge-carboxylated graphene nanosheets via ball milling. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5588-5593.	7.1	595
4	Two-dimensional polyaniline (C ₃ N) from carbonized organic single crystals in solid state. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7414-7419.	7.1	380
5	Ruthenium anchored on carbon nanotube electrocatalyst for hydrogen production with enhanced Faradaic efficiency. Nature Communications, 2020, 11, 1278.	12.8	340
6	2D Frameworks of C₂N and C₃N as New Anode Materials for Lithiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1702007.	21.0	282
7	Recent advances in ruthenium-based electrocatalysts for the hydrogen evolution reaction. Nanoscale Horizons, 2020, 5, 43-56.	8.0	223
8	Direct Synthesis of a Covalent Triazineâ€Based Framework from Aromatic Amides. Angewandte Chemie - International Edition, 2018, 57, 8438-8442.	13.8	196
9	Cobalt Oxide Encapsulated in C₂N-h2D Network Polymer as a Catalyst for Hydrogen Evolution. Chemistry of Materials, 2015, 27, 4860-4864.	6.7	131
10	Defect-Free Encapsulation of Fe⁰ in 2D Fused Organic Networks as a Durable Oxygen Reduction Electrocatalyst. Journal of the American Chemical Society, 2018, 140, 1737-1742.	13.7	124
11	Fe@C2N: A highly-efficient indirect-contact oxygen reduction catalyst. Nano Energy, 2018, 44, 304-310.	16.0	118
12	Twoâ€Dimensional Covalent Organic Frameworks for Optoelectronics and Energy Storage. ChemNanoMat, 2017, 3, 373-391.	2.8	106
13	Macroporous Inverse Opal-like Mo_xC with Incorporated Mo Vacancies for Significantly Enhanced Hydrogen Evolution. ACS Nano, 2017, 11, 7527-7533.	14.6	102
14	Encapsulating Iridium Nanoparticles Inside a 3D Cageâ€Like Organic Network as an Efficient and Durable Catalyst for the Hydrogen Evolution Reaction. Advanced Materials, 2018, 30, e1805606.	21.0	98
15	Synergistic Coupling Derived Cobalt Oxide with Nitrogenated Holey Two-Dimensional Matrix as an Efficient Bifunctional Catalyst for Metalâ€“Air Batteries. ACS Nano, 2019, 13, 5502-5512.	14.6	87
16	Porous Cobalt Phosphide Polyhedrons with Iron Doping as an Efficient Bifunctional Electrocatalyst. Small, 2017, 13, 1701167.	10.0	82
17	Controlled Fabrication of Hierarchically Structured Nitrogenâ€Doped Carbon Nanotubes as a Highly Active Bifunctional Oxygen Electrocatalyst. Advanced Functional Materials, 2017, 27, 1605717.	14.9	80
18	Molybdenumâ€Based Carbon Hybrid Materials to Enhance the Hydrogen Evolution Reaction. Chemistry - A European Journal, 2018, 24, 18158-18179.	3.3	46

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19	Low-overpotential overall water splitting by a cooperative interface of cobalt-iron hydroxide and iron oxyhydroxide. Cell Reports Physical Science, 2022, 3, 100762.	5.6	43
20	Organic Ferromagnetism: Trapping Spins in the Glassy State of an Organic Network Structure. CheM, 2018, 4, 2357-2369.	11.7	42
21	Direct Synthesis of a Covalent Triazineâ€Based Framework from Aromatic Amides. Angewandte Chemie, 2018, 130, 8574-8578.	2.0	40
22	A Robust 3D Cageâ€like Ultramicroporous Network Structure with High Gasâ€Uptake Capacity. Angewandte Chemie - International Edition, 2018, 57, 3415-3420.	13.8	40
23	Two-dimensional amine and hydroxy functionalized fused aromatic covalent organic framework. Communications Chemistry, 2020, 3, .	4.5	40
24	Robust fused aromatic pyrazine-based two-dimensional network for stably cocooning iron nanoparticles as an oxygen reduction electrocatalyst. Nano Energy, 2019, 56, 581-587.	16.0	35
25	Fused Aromatic Network Structures as a Platform for Efficient Electrocatalysis. Advanced Materials, 2019, 31, e1805062.	21.0	31
26	Vertical two-dimensional layered fused aromatic ladder structure. Nature Communications, 2020, 11, 2021.	12.8	29
27	Scalable Synthesis of Pure and Stable Hexaaminobenzene Trihydrochloride. Synlett, 2013, 24, 246-248.	1.8	23
28	Identifying the electrocatalytic active sites of a Ru-based catalyst with high Faraday efficiency in CO₂-saturated media for an aqueous Znâ€“CO₂ system. Journal of Materials Chemistry A, 2020, 8, 14927-14934.	10.3	16
29	Fused Aromatic Network with Exceptionally High Carrier Mobility. Advanced Materials, 2021, 33, e2004707.	21.0	16
30	Recent Progress in Porous Fused Aromatic Networks and Their Applications. Small Science, 2021, 1, 2000007.	9.9	14
31	Forming layered conjugated porous BBL structures. Polymer Chemistry, 2019, 10, 4185-4193.	3.9	13
32	Metal (MÂ= Ru, Pd and Co) embedded in C2N with enhanced lithium storage properties. Materials Today Energy, 2019, 14, 100359.	4.7	13
33	Forming a three-dimensional porous organic network via solid-state explosion of organic single crystals. Nature Communications, 2017, 8, 1599.	12.8	12
34	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.	16.0	11
35	Room-Temperature Organic Ferromagnetism. CheM, 2019, 5, 1012-1014.	11.7	9
36	Fused aromatic networks as a new class of gas hydrate inhibitors. Chemical Engineering Journal, 2022, 433, 133691.	12.7	7

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37	In-Plane Oriented Two-Dimensional Conjugated Metalâ€“Organic Framework Films for High-Performance Humidity Sensing. , 2022, 4, 1146-1153.		7
38	Unusually Stable Triazineâ€based Organic Superstructures. Angewandte Chemie - International Edition, 2016, 55, 7413-7417.	13.8	6
39	A Robust 3D Cageâ€like Ultramicroporous Network Structure with High Gasâ€Uptake Capacity. Angewandte Chemie, 2018, 130, 3473-3478.	2.0	6
40	Crystalline Porphyrazineâ€Linked Fused Aromatic Networks with High Proton Conductivity. Angewandte Chemie - International Edition, 2022, 61, .	13.8	6
41	Scalable Synthesis of Tetrapodal Octaamine. European Journal of Organic Chemistry, 2019, 2019, 2335-2338.	2.4	4
42	Iron encased organic networks with enhanced lithium storage properties. Energy Storage, 2020, 2, e114.	4.3	4
43	Direct conversion of aromatic amides into crystalline covalent triazine frameworks by a condensation mechanism. Cell Reports Physical Science, 2021, 2, 100653.	5.6	4
44	A facile synthesis of novel unsymmetrical N-(4-oxo-2-phenyl-3(4H)-quinazolinoyl)-N-(aryl)acetamidines. Chinese Chemical Letters, 2010, 21, 905-910.	9.0	3
45	Unusually Stable Triazineâ€based Organic Superstructures. Angewandte Chemie, 2016, 128, 7539-7543.	2.0	3
46	Fused aromatic networks with the different spatial arrangement of structural units. Cell Reports Physical Science, 2021, 2, 100502.	5.6	3
47	3D Porous Fused Aromatic Networks for High Performance Gas and Iodine Uptakes. Advanced Materials Interfaces, 2021, 8, 2101373.	3.7	3
48	Hydrogen Evolution Reaction: Encapsulating Iridium Nanoparticles Inside a 3D Cageâ€Like Organic Network as an Efficient and Durable Catalyst for the Hydrogen Evolution Reaction (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 29		1
49	Anomalous phonon softening of G-band in compressed graphitic carbon nitride due to strong electrostatic repulsion. Applied Physics Letters, 2021, 118, .	3.3	2
50	Synthesis of Saddle-Shape Octaaminotetraphenylene Octahydrochloride. Journal of Organic Chemistry, 2021, 86, 14398-14403.	3.2	2
51	Electrocatalyts: Controlled Fabrication of Hierarchically Structured Nitrogenâ€Doped Carbon Nanotubes as a Highly Active Bifunctional Oxygen Electrocatalyst (Adv. Funct. Mater. 9/2017). Advanced Functional Materials, 2017, 27, .	14.9	1
52	Electrocatalysis: Porous Cobalt Phosphide Polyhedrons with Iron Doping as an Efficient Bifunctional Electrocatalyst (Small 40/2017). Small, 2017, 13, .	10.0	1
53	Crystalline Porphyrazineâ€Linked Fused Aromatic Networks with High Proton Conductivity. Angewandte Chemie, 2022, 134, .	2.0	1
54	Fused Aromatic Network Structures: Fused Aromatic Network with Exceptionally High Carrier Mobility (Adv. Mater. 9/2021). Advanced Materials, 2021, 33, 2170063.	21.0	0

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55	3D Porous Fused Aromatic Networks for High Performance Gas and Iodine Uptakes (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlock	3.7	0
56	Solution-Processable Semiconducting Conjugated Planar Network. ACS Applied Materials & Interfaces, 2022, 14, 14588-14595.	8.0	0