

Anuj Kumar

List of Publications by Year in descending order

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64
papers

2,573
citations

236925

25
h-index

223800

46
g-index

64
all docs

64
docs citations

64
times ranked

1693
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Advances for MOF-Derived Carbon-Supported Single-Atom Catalysts. <i>Small Methods</i> , 2019, 3, 1800471.	8.6	315
2	Bimetallic metal-organic frameworks and MOF-derived composites: Recent progress on electro- and photoelectrocatalytic applications. <i>Coordination Chemistry Reviews</i> , 2022, 451, 214264.	18.8	203
3	Microwave chemistry, recent advancements, and eco-friendly microwave-assisted synthesis of nanoarchitectures and their applications: a review. <i>Materials Today Nano</i> , 2020, 11, 100076.	4.6	154
4	Defective/graphitic synergy in a heteroatom-interlinked-triggered metal-free electrocatalyst for high-performance rechargeable zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18222-18230.	10.3	135
5	High-Voltage and Ultrastable Aqueous Zinc-Iodine Battery Enabled by N-Doped Carbon Materials: Revealing the Contributions of Nitrogen Configurations. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 13769-13776.	6.7	134
6	Boosting the bifunctional oxygen electrocatalytic performance of atomically dispersed Fe site via atomic Ni neighboring. <i>Applied Catalysis B: Environmental</i> , 2020, 274, 119091.	20.2	130
7	A novel strategy for the synthesis of hard carbon spheres encapsulated with graphene networks as a low-cost and large-scalable anode material for fast sodium storage with an ultralong cycle life. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 402-410.	6.0	128
8	Iron-cation-coordinated cobalt-bridged-selenides nanorods for highly efficient photo/electrochemical water splitting. <i>Applied Catalysis B: Environmental</i> , 2022, 304, 120987.	20.2	119
9	Trimetallic metal-organic frameworks and derived materials for environmental remediation and electrochemical energy storage and conversion. <i>Coordination Chemistry Reviews</i> , 2022, 461, 214505.	18.8	95
10	Molecular-MN ₄ vs atomically dispersed M-N ₄ -C electrocatalysts for oxygen reduction reaction. <i>Coordination Chemistry Reviews</i> , 2021, 446, 214122.	18.8	88
11	Tailoring of electrocatalyst interactions at interfacial level to benchmark the oxygen reduction reaction. <i>Coordination Chemistry Reviews</i> , 2022, 469, 214669.	18.8	79
12	The chemistry, recent advancements and activity descriptors for macrocycles based electrocatalysts in oxygen reduction reaction. <i>Coordination Chemistry Reviews</i> , 2020, 402, 213047.	18.8	78
13	Hierarchical peony-like FeCo-NC with conductive network and highly active sites as efficient electrocatalyst for rechargeable Zn-air battery. <i>Nano Research</i> , 2020, 13, 1090-1099.	10.4	77
14	3D interconnected porous Mo-doped WO ₃ @CdS hierarchical hollow heterostructures for efficient photoelectrochemical nitrogen reduction to ammonia. <i>Applied Catalysis B: Environmental</i> , 2022, 317, 121711.	20.2	75
15	Recent development on metal phthalocyanines based materials for energy conversion and storage applications. <i>Coordination Chemistry Reviews</i> , 2021, 431, 213678.	18.8	69
16	M-N-C-based single-atom catalysts for H ₂ , O ₂ & CO ₂ electrocatalysis: activity descriptors, active sites identification, challenges and prospects. <i>Fuel</i> , 2021, 304, 121420.	6.4	63
17	Enhancing oxygen reduction reaction performance via CNTs/graphene supported iron protoporphyrin IX: A hybrid nanoarchitecture electrocatalyst. <i>Diamond and Related Materials</i> , 2021, 113, 108272.	3.9	54
18	Boosting oxygen reduction reaction activity by incorporating the iron phthalocyanine nanoparticles on carbon nanotubes network. <i>Inorganic Chemistry Communication</i> , 2020, 120, 108160.	3.9	50

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19	Promoting electrochemical conversion of CO ₂ to formate with rich oxygen vacancies in nanoporous tin oxides. <i>Chinese Chemical Letters</i> , 2019, 30, 2274-2278.	9.0	35
20	Redox chemistry of N ₄ -Fe ²⁺ in iron phthalocyanines for oxygen reduction reaction. <i>Chinese Journal of Catalysis</i> , 2021, 42, 1404-1412.	14.0	33
21	A catalyst-free preparation of conjugated poly iron-phthalocyanine and its superior oxygen reduction reaction activity. <i>Chemical Engineering Journal</i> , 2022, 445, 136784.	12.7	33
22	Exploring the Synergistic Effect of Novel Ni-Fe in 2D Bimetallic Metal-Organic Frameworks for Enhanced Electrochemical Reduction of CO ₂ . <i>Advanced Materials Interfaces</i> , 2022, 9, 2101505.	3.7	32
23	Electrochemical studies of DNA interaction and antimicrobial activities of MnII, FeIII, CoII and NiII Schiff base tetraazamacrocyclic complexes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 176, 123-133.	3.9	31
24	Design and synthesis of Mn ₄ macrocyclic complex for efficient oxygen reduction reaction electrocatalysis. <i>Inorganic Chemistry Communication</i> , 2020, 112, 107700.	3.9	31
25	A novel Co ₄ -driven self-assembled molecular engineering for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 26499-26506.	7.1	30
26	Construction of Dual-Atom Fe via Face-to-Face Assembly of Molecular Phthalocyanine for Superior Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2022, 34, 5598-5606.	6.7	29
27	Stereochemical facets of clinical β -blockers: An overview. <i>Chirality</i> , 2020, 32, 722-735.	2.6	26
28	Substituent effect on catalytic activity of Co phthalocyanines for oxygen reduction reactions. <i>Inorganic Chemistry Communication</i> , 2021, 127, 108518.	3.9	22
29	Oxygenated P/N co-doped carbon for efficient 2e ⁻ oxygen reduction to H ₂ O ₂ . <i>Journal of Materials Chemistry A</i> , 2022, 10, 14355-14363.	10.3	22
30	Design and synthesis of Co ^{II} -HMTAA-14/16 macrocycles and their nano-composites for oxygen reduction electrocatalysis. <i>RSC Advances</i> , 2019, 9, 13243-13248.	3.6	20
31	Molecular Mn ₄ -Complex immobilized on carbon black as efficient electrocatalyst for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 17621-17629.	7.1	19
32	Assisting Atomic Dispersion of Fe in N-Doped Carbon by Aerosil for High-Efficiency Oxygen Reduction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 25832-25842.	8.0	17
33	Phyto-Assisted Synthesis and Characterization of V ₂ O ₅ Nanomaterial and their Electrochemical and Antimicrobial Investigations. <i>Nano LIFE</i> , 2020, 10, 2050003.	0.9	16
34	A facile preparation of sulfur doped nickel-iron nanostructures with improved HER and supercapacitor performance. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 7511-7521.	7.1	16
35	Synthesis, Electrochemical and Antimicrobial Studies of Me ₆ -Dibenzotetraazamacrocyclic Complexes of Ni(II) and Cu(II) Metal Ions. <i>Russian Journal of Electrochemistry</i> , 2019, 55, 161-167.	0.9	12
36	Synthesis, Characterization, Electrochemical and Antimicrobial Studies of Iron(II) and Nickel(II) Macrocyclic Complexes. <i>Russian Journal of Electrochemistry</i> , 2021, 57, 348-356.	0.9	12

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37	Polypyrrole and polyaniline-based membranes for fuel cell devices: A review. <i>Surfaces and Interfaces</i> , 2022, 29, 101738.	3.0	12
38	Converting Polyvinyl Chloride Plastic Wastes to Carbonaceous Materials via Room-Temperature Dehalogenation for High-Performance Supercapacitor. <i>ACS Applied Energy Materials</i> , 0, , .	5.1	9
39	Synthesis strategies and structural and electronic properties of MXenes-based nanomaterials for ORR: A mini review. <i>Inorganic Chemistry Communication</i> , 2022, 141, 109496.	3.9	9
40	Different approaches in thin-layer chromatography for enantioresolution of acebutolol using colistin sulfate as chiral selector. <i>Journal of Planar Chromatography - Modern TLC</i> , 2021, 34, 211-215.	1.2	8
41	Development of a thin-layer chromatographic method for the enantioresolution of sotalol using levofloxacin as chiral selector. <i>Journal of Planar Chromatography - Modern TLC</i> , 2020, 33, 663-667.	1.2	7
42	Synthesis of Nanosized Metal Sulfides Using Elemental Sulfur in Formamide: Implications for Energy Conversion and Optical Scenarios. <i>ACS Applied Nano Materials</i> , 2021, 4, 2357-2364.	5.0	6
43	SYNTHESIS, CHARACTERIZATION AND ORR ACTIVITY OF METAL-N4-NANOCOMPOSITES. <i>Surface Review and Letters</i> , 2021, 28, 2150051.	1.1	6
44	Nanostructured anode materials in rechargeable batteries. , 2021, , 187-219.		5
45	Metal-organic frameworks for the electrocatalytic ORR and HER. , 2022, , 211-237.		4
46	Metal-organic frameworks-based nanomaterials for nanogenerators: a mini review. <i>International Nano Letters</i> , 2022, 12, 215-221.	5.0	3
47	Ct-DNA binding and antimicrobial studies of MnII and FeII macrocyclic complexes. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2022, 102, 683-692.	1.6	3
48	Nanostructured cathode materials in rechargeable batteries. , 2021, , 293-319.		2
49	SYNTHESIS, ELECTROCHEMICAL, ANTIMICROBIAL AND THEORETICAL STUDIES OF FE AND NI MACROCYCLIC COMPLEXES. <i>Surface Review and Letters</i> , 0, , .	1.1	2
50	Introduction to electrochemical energy storage technologies. , 2022, , 3-10.		2
51	MOF-based nanostructures and nanomaterials for next-generation energy storage. , 2022, , 3-10.		2
52	Covalent Organic Frameworks-based Nanocomposites for Oxygen reduction reaction. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2022, 102, 477-485.	1.6	2
53	Organocerium/Ce-Based Nanocomposites as Corrosion Inhibitors. <i>ACS Symposium Series</i> , 0, , 169-188.	0.5	2
54	Advancement in Nanomaterials for Rapid Sensing, Diagnosis, and Prevention of COVID-19. <i>Nano LIFE</i> , 2021, 11, 2130007.	0.9	1

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55	Synthesis and Electrochemical Studies of Hexamethyldibenzotetraaza N4-Macrocyclic Complexes of Ni(II) and Cu(II) Metal ions. Asian Journal of Chemistry, 2019, 31, 2116-2120.	0.3	1
56	Nanomaterials for electrochemical reduction of CO ₂ : An introduction. , 2022, , 373-377.		1
57	Covalent organic framework-based materials as electrocatalysts for fuel cells. , 2022, , 229-250.		1
58	MOF-based advanced nanomaterials for electrocatalysis applications. , 2022, , 749-763.		1
59	Synthesis, Electrochemical and Antibacterial Studies of Hexa-aza-macrocyclic Complexes of Ni(II) and Cu(II) Ions. Nano LIFE, 0, , .	0.9	1
60	Phyto-assisted Preparation of Fe ₂ O ₃ Nanoflowers and Their Antimicrobial Studies. Nano LIFE, 2022, 12, .	0.9	1
61	Carbon Nanotubes: General Introduction. , 2022, , 1-13.		0
62	2D hybrid nanoarchitecture electrocatalysts. , 2022, , 11-23.		0
63	Nanoelectrocatalysis: An introduction. , 2022, , 3-10.		0
64	Lithium metal anode. , 2022, , 489-497.		0