

Anuj Kumar

List of Publications by Year in descending order

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64
papers

2,573
citations

236925

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223800

46
g-index

64
all docs

64
docs citations

64
times ranked

1693
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Carbon Nanotubes: General Introduction. , 2022, , 1-13.		0
5	Metal-organic frameworks-based nanomaterials for nanogenerators: a mini review. <i>International Nano Letters</i> , 2022, 12, 215-221.	5.0	3
6	2D hybrid nanoarchitecture electrocatalysts. , 2022, , 11-23.		0
7	Nanomaterials for electrochemical reduction of CO ₂ : An introduction. , 2022, , 373-377.		1
8	Metal-organic frameworks for the electrocatalytic ORR and HER. , 2022, , 211-237.		4
9	Nanoelectrocatalysis: An introduction. , 2022, , 3-10.		0
10	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
11	Polypyrrole and polyaniline-based membranes for fuel cell devices: A review. <i>Surfaces and Interfaces</i> , 2022, 29, 101738.	3.0	12
12	Covalent organic framework-based materials as electrocatalysts for fuel cells. , 2022, , 229-250.		1
13	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
14	Molecular Mn ^{IV} -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
15	Introduction to electrochemical energy storage technologies. , 2022, , 3-10.		2
16	MOF-based nanostructures and nanomaterials for next-generation energy storage. , 2022, , 3-10.		2
17	MOF-based advanced nanomaterials for electrocatalysis applications. , 2022, , 749-763.		1
18	Lithium metal anode. , 2022, , 489-497.		0

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19	Covalent Organic Frameworks-based Nanocomposites for Oxygen reduction reaction. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2022, 102, 477-485.	1.6	2
20	Synthesis strategies and structural and electronic properties of MXenes-based nanomaterials for ORR: A mini review. Inorganic Chemistry Communication, 2022, 141, 109496.	3.9	9
21	A catalyst-free preparation of conjugated poly iron-phthalocyanine and its superior oxygen reduction reaction activity. Chemical Engineering Journal, 2022, 445, 136784.	12.7	33
22	Ct-DNA binding and antimicrobial studies of MnII and FeII macrocyclic complexes. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2022, 102, 683-692.	1.6	3
23	Oxygenated P/N co-doped carbon for efficient $2e^-$ oxygen reduction to H_2O_2 . Journal of Materials Chemistry A, 2022, 10, 14355-14363.	10.3	22
24	Phyto-assisted Preparation of Fe_2O_3 Nanoflowers and Their Antimicrobial Studies. Nano LIFE, 2022, 12, .	0.9	1
25	Tailoring of electrocatalyst interactions at interfacial level to benchmark the oxygen reduction reaction. Coordination Chemistry Reviews, 2022, 469, 214669.	18.8	79
26	Construction of Dual-Atom Fe via Face-to-Face Assembly of Molecular Phthalocyanine for Superior Oxygen Reduction Reaction. Chemistry of Materials, 2022, 34, 5598-5606.	6.7	29
27	3D interconnected porous Mo-doped $WO_3@CdS$ hierarchical hollow heterostructures for efficient photoelectrochemical nitrogen reduction to ammonia. Applied Catalysis B: Environmental, 2022, 317, 121711.	20.2	75
28	Recent development on metal phthalocyanines based materials for energy conversion and storage applications. Coordination Chemistry Reviews, 2021, 431, 213678.	18.8	69
29	Nanostructured cathode materials in rechargeable batteries. , 2021, , 293-319.		2
30	Nanostructured anode materials in rechargeable batteries. , 2021, , 187-219.		5
31	Defective/graphitic synergy in a heteroatom-interlinked-triggered metal-free electrocatalyst for high-performance rechargeable zinc-air batteries. Journal of Materials Chemistry A, 2021, 9, 18222-18230.	10.3	135
32	Synthesis of Nanosized Metal Sulfides Using Elemental Sulfur in Formamide: Implications for Energy Conversion and Optical Scenarios. ACS Applied Nano Materials, 2021, 4, 2357-2364.	5.0	6
33	Enhancing oxygen reduction reaction performance via CNTs/graphene supported iron protoporphyrin IX: A hybrid nanoarchitecture electrocatalyst. Diamond and Related Materials, 2021, 113, 108272.	3.9	54
34	SYNTHESIS, CHARACTERIZATION AND ORR ACTIVITY OF METAL-N4-NANOCOMPOSITES. Surface Review and Letters, 2021, 28, 2150051.	1.1	6
35	Synthesis, Characterization, Electrochemical and Antimicrobial Studies of Iron(II) and Nickel(II) Macrocyclic Complexes. Russian Journal of Electrochemistry, 2021, 57, 348-356.	0.9	12
36	Substituent effect on catalytic activity of Co phthalocyanines for oxygen reduction reactions. Inorganic Chemistry Communication, 2021, 127, 108518.	3.9	22

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37	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
38	Advancement in Nanomaterials for Rapid Sensing, Diagnosis, and Prevention of COVID-19. <i>Nano LIFE</i> , 2021, 11, 2130007.	0.9	1
39	A novel CoN ₄ -driven self-assembled molecular engineering for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 26499-26506.	7.1	30
40	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
41	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
42	Molecular-MN ₄ vs atomically dispersed M ⁿ N ₄ C electrocatalysts for oxygen reduction reaction. <i>Coordination Chemistry Reviews</i> , 2021, 446, 214122.	18.8	88
43	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
44	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
45	Design and synthesis of MnN ₄ macrocyclic complex for efficient oxygen reduction reaction electrocatalysis. <i>Inorganic Chemistry Communication</i> , 2020, 112, 107700.	3.9	31
46	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
47	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
48	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
49	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
50	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
51	Stereochemical facets of clinical β -blockers: An overview. <i>Chirality</i> , 2020, 32, 722-735.	2.6	26
52	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
53	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
54	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

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55	Promoting electrochemical conversion of CO ₂ to formate with rich oxygen vacancies in nanoporous tin oxides. Chinese Chemical Letters, 2019, 30, 2274-2278.	9.0	35
56	Synthesis, Electrochemical and Antimicrobial Studies of Me ₆ -Dibenzotetraazamacrocyclic Complexes of Ni(II) and Cu(II) Metal Ions. Russian Journal of Electrochemistry, 2019, 55, 161-167.	0.9	12
57	Design and synthesis of Co ^{II} /HMTAA-14/16 macrocycles and their nano-composites for oxygen reduction electrocatalysis. RSC Advances, 2019, 9, 13243-13248.	3.6	20
58	Recent Advances for MOF-Derived Carbon-Supported Single-Atom Catalysts. Small Methods, 2019, 3, 1800471.	8.6	315
59	Synthesis and Electrochemical Studies of Hexamethyldibenzotetraaza N ₄ -Macrocyclic Complexes of Ni(II) and Cu(II) Metal ions. Asian Journal of Chemistry, 2019, 31, 2116-2120.	0.3	1
60	Electrochemical studies of DNA interaction and antimicrobial activities of MnII, FeIII, CoII and NiII Schiff base tetraazamacrocyclic complexes. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 176, 123-133.	3.9	31
61	Converting Polyvinyl Chloride Plastic Wastes to Carbonaceous Materials via Room-Temperature Dehalogenation for High-Performance Supercapacitor. ACS Applied Energy Materials, 0, , .	5.1	9
62	SYNTHESIS, ELECTROCHEMICAL, ANTIMICROBIAL AND THEORETICAL STUDIES OF FE AND NI MACROCYCLIC COMPLEXES. Surface Review and Letters, 0, , .	1.1	2
63	Synthesis, Electrochemical and Antibacterial Studies of Hexa-aza-macrocyclic Complexes of Ni(II) and Cu(II) Ions. Nano LIFE, 0, , .	0.9	1
64	Organocerium/Ce-Based Nanocomposites as Corrosion Inhibitors. ACS Symposium Series, 0, , 169-188.	0.5	2