

Aiguo Kong

List of Publications by Year in descending order

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64
papers

2,316
citations

293460

24
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242451

47
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65
docs citations

65
times ranked

4277
citing authors

#	ARTICLE	IF	CITATIONS
1	Scale synthesis of spherical porous porphyrinic organic polymers for efficient iodine capture and CO ₂ adsorption. <i>Journal of Solid State Chemistry</i> , 2022, 306, 122771.	1.4	6
2	Semi-enclosed Cu nanoparticles with porous nitrogen-doped carbon shells for efficient and tolerant nitrate electroreduction in neutral condition. <i>Electrochimica Acta</i> , 2022, 404, 139585.	2.6	10
3	Activated biochar derived from peanut shells as the electrode materials with excellent performance in Zinc-air battery and supercapacitance. <i>Waste Management</i> , 2021, 125, 257-267.	3.7	39
4	Mn-Pyridine N site-enriched Mn-N-C derived from covalent organic polymer for electrochemical oxygen reduction and capacitive storage. <i>Ionics</i> , 2021, 27, 5229-5239.	1.2	5
5	Covalent organic polymer-derived carbon nanotube-twined carbon nanospheres for efficient oxygen electroreduction and capacitance storage. <i>Ionics</i> , 2020, 26, 927-937.	1.2	16
6	3D Graphene-Carbon Nanotube Hybrid Supported Coupled Co-MnO Nanoparticles as Highly Efficient Bifunctional Electrocatalyst for Rechargeable Zn-Air Batteries. <i>Chemistry - an Asian Journal</i> , 2020, 15, 3535-3541.	1.7	5
7	Covalent pendulous anthraquinone polymers coupled on graphenes for efficient capacitance storage in both alkaline and acidic media. <i>Dalton Transactions</i> , 2020, 49, 11640-11647.	1.6	2
8	Oriented Synthesis of Pyridinic-N Dopant within the Highly Efficient Multifunction Carbon-Based Materials for Oxygen Transformation and Energy Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 10431-10443.	3.2	14
9	Efficient Nitrate Reduction over Novel Covalent Ag-Salophen Polymer-Derived "Vein-Leaf-Apple"-like Ag@Carbon Structures. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 33186-33195.	4.0	28
10	Nitrogen and sulfur-enriched porous bithiophene-melamine covalent organic polymers for effective capture of CO ₂ and iodine. <i>Materials Letters</i> , 2020, 277, 128291.	1.3	14
11	Highly efficient oxygen electrode catalyst derived from chitosan biomass by molten salt pyrolysis for zinc-air battery. <i>Electrochimica Acta</i> , 2020, 339, 135923.	2.6	15
12	Ultrafine Cu ₆ Sn ₅ nanoalloys supported on nitrogen and sulfur-doped carbons as robust electrode materials for oxygen reduction and Li-ion battery. <i>Journal of Alloys and Compounds</i> , 2020, 824, 153958.	2.8	7
13	Unadulterated carbon as robust multifunctional electrocatalyst for overall water splitting and oxygen transformation. <i>Nano Research</i> , 2020, 13, 401-411.	5.8	30
14	N-S-codoped mesoporous carbons from melamine-2-thenaldehyde polymers on carbon nanotubes for oxygen reduction and Zn-air batteries. <i>Journal of Solid State Chemistry</i> , 2020, 287, 121348.	1.4	10
15	Fe-boosting Sn-based dual-shell nanostructures from new covalent porphyrin frameworks as efficient electrocatalysts for oxygen reduction and zinc-air batteries. <i>Electrochimica Acta</i> , 2019, 320, 134593.	2.6	24
16	Sn(OH) _x -assisted synthesis of mesoporous Mn-porphyrinic frameworks and their carbon derivatives for electrocatalysis. <i>Dalton Transactions</i> , 2019, 48, 14678-14686.	1.6	3
17	Bio-inspired chitosan-heme-vitamin B ₁₂ -derived Fe-Co bimetallic-doped mesoporous carbons for efficiently electro-activating oxygen. <i>Dalton Transactions</i> , 2019, 48, 2338-2344.	1.6	11
18	Bimetallic Ni-Co composites anchored on a wool ball-like carbon framework as high-efficiency bifunctional electrodes for rechargeable Zn-air batteries. <i>Catalysis Science and Technology</i> , 2019, 9, 3469-3481.	2.1	9

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19	Pyrolytic Carbon-coated Cu-Fe Alloy Nanoparticles with High Catalytic Performance for Oxygen Electroreduction. <i>Chemistry - an Asian Journal</i> , 2019, 14, 2676-2684.	1.7	25
20	Pony-Size Silver-Copper and Silver-Iron Alloy Nanoparticles Confined in N-Free Mesoporous Carbon for Efficient Oxygen Electroreduction. <i>Journal of the Electrochemical Society</i> , 2019, 166, H272-H282.	1.3	6
21	Soft-confinement conversion of Co-Salen-organic-frameworks to uniform cobalt nanoparticles embedded within porous carbons as robust trifunctional electrocatalysts. <i>Carbon</i> , 2019, 149, 471-482.	5.4	24
22	Coupled nanocomposite $\text{Co}_{5.47}\text{N}_3\text{Fe}_7$ inlaid in a tremella-like carbon framework as a highly efficient multifunctional electrocatalyst for oxygen transformation and overall water splitting. <i>Sustainable Energy and Fuels</i> , 2019, 3, 3538-3549.	2.5	12
23	Hierarchical porous N-P-coupled carbons as metal-free bifunctional electro-catalysts for oxygen conversion. <i>Applied Surface Science</i> , 2019, 464, 380-387.	3.1	49
24	Copper-assisted thermal conversion of microporous covalent melamine-boroxine frameworks to hollow B, N-codoped carbon capsules as bifunctional metal-free electrode materials. <i>Electrochimica Acta</i> , 2019, 298, 210-218.	2.6	36
25	Pony-size Cu nanoparticles confined in N-doped mesoporous carbon by chemical vapor deposition for efficient oxygen electroreduction. <i>Electrochimica Acta</i> , 2018, 272, 233-241.	2.6	36
26	High-rate oxygen electroreduction over metal-free graphene foams embedding P-N coupled moieties in acidic media. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4145-4151.	5.2	29
27	Low-Cost Sulfonated Phthalocyanines-Derived Hierarchical Porous Co-Cu-N-S-Doped Carbons for Efficient Oxygen Electroreduction. <i>Journal of the Electrochemical Society</i> , 2018, 165, H658-H666.	1.3	4
28	Covalent Phenanthroline Framework Derived FeS_3C Composite Nanoparticles Embedding in N-S-Codoped Carbons as Highly Efficient Trifunctional Electrocatalysts. <i>Advanced Functional Materials</i> , 2018, 28, 1803973.	7.8	141
29	Electroactive Cu-N-Coupled Moieties Doped in Hierarchically Porous Carbon as Efficient Catalysts for the Oxygen-Reduction Reaction. <i>Chemistry - an Asian Journal</i> , 2018, 13, 3314-3320.	1.7	5
30	Mesoporous nitrogen-doped carbon microfibers derived from Mg-biquinoline-dicarboxy compound for efficient oxygen electroreduction. <i>Journal of Solid State Chemistry</i> , 2017, 246, 399-403.	1.4	5
31	One-pot synthesized covalent porphyrin polymer-derived core-shell Fe_3C @carbon for efficient oxygen electroreduction. <i>Carbon</i> , 2017, 116, 606-614.	5.4	33
32	TCNQ-induced in-situ electrochemical deposition for the synthesis of silver nanodendrites as efficient bifunctional electrocatalysts. <i>Electrochimica Acta</i> , 2017, 239, 45-55.	2.6	20
33	High-efficiency copper-based electrocatalysts for oxygen electroreduction by heating metal-phthalocyanine at superhigh temperature. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 16557-16567.	3.8	11
34	Space-confined synthesis of multilayer Cu-N-doped graphene nanosheets for efficient oxygen electroreduction. <i>Dalton Transactions</i> , 2017, 46, 8586-8592.	1.6	28
35	Nanoporous carbon derived from a functionalized metal-organic framework as a highly efficient oxygen reduction electrocatalyst. <i>Nanoscale</i> , 2017, 9, 862-868.	2.8	56
36	Porphyritic coordination lattices with fluoropillars. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21189-21195.	5.2	26

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37	Ag-enhanced Catalytic Performance of Ordered Mesoporous Fe@N-Graphitic Carbons for Oxygen Electroreduction. <i>Catalysis Letters</i> , 2017, 147, 2745-2754.	1.4	9
38	Covalent Porphyrin Framework-Derived Fe ₂ P@Fe ₄ N-Coupled Nanoparticles Embedded in N-Doped Carbons as Efficient Trifunctional Electrocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32840-32850.	4.0	108
39	Ionic Liquid-Derived MoC Nanocomposites with Ordered Mesoporosity as Efficient Pt-Free Electrocatalyst for Hydrogen Evolution and Oxygen Reduction. <i>Catalysis Letters</i> , 2017, 147, 253-260.	1.4	21
40	Origin of the Ability of Fe ₂ O ₃ Mesopores to Activate C-H Bonds in Methane. <i>Chemistry - A European Journal</i> , 2016, 22, 2046-2050.	1.7	7
41	Hierarchically porous few-layer porphyrinic carbon nanosheets formed by a VO _x -templating method for high-efficiency oxygen electroreduction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7305-7312.	5.2	13
42	High Efficient Mesoporous Co ₃ O ₄ Nanocatalysts For Methane Combustion at Low Temperature. <i>ChemistrySelect</i> , 2016, 1, 979-983.	0.7	8
43	Coordination compound-derived ordered mesoporous N-free Fe@P _x @C material for efficient oxygen electroreduction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14291-14297.	5.2	20
44	A novel and effective strategy for electro-oxidation of ethanol to acetaldehyde. <i>Catalysis Communications</i> , 2016, 86, 119-123.	1.6	5
45	Efficient oxygen electroreduction over ordered mesoporous Co@N-doped carbon derived from cobalt porphyrin. <i>RSC Advances</i> , 2016, 6, 15167-15174.	1.7	28
46	Synthesis of high-quality graphene sheets in task-specific ionic liquids and their photocatalytic performance. <i>New Journal of Chemistry</i> , 2016, 40, 3147-3154.	1.4	6
47	New Heterometallic Zirconium Metalloporphyrin Frameworks and Their Heteroatom-Activated High-Surface-Area Carbon Derivatives. <i>Journal of the American Chemical Society</i> , 2015, 137, 2235-2238.	6.6	254
48	From cage-in-cage MOF to N-doped and Co-nanoparticle-embedded carbon for oxygen reduction reaction. <i>Dalton Transactions</i> , 2015, 44, 6748-6754.	1.6	80
49	Heterometal-Embedded Organic Conjugate Frameworks from Alternating Monomeric Iron and Cobalt Metalloporphyrins and Their Application in Design of Porous Carbon Catalysts. <i>Advanced Materials</i> , 2015, 27, 3431-3436.	11.1	231
50	Efficient Oxygen Electroreduction: Hierarchical Porous Fe@N-doped Hollow Carbon Nanoshells. <i>ACS Catalysis</i> , 2015, 5, 3887-3893.	5.5	117
51	Al-coordination polymer-derived nanoporous nitrogen-doped carbon microfibers as metal-free catalysts for oxygen electroreduction and acetalization reactions. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23716-23724.	5.2	54
52	Efficient oxygen reduction by nanocomposites of heterometallic carbide and nitrogen-enriched carbon derived from the cobalt-encapsulated indium@MOF. <i>Chemical Communications</i> , 2014, 50, 15619-15622.	2.2	89
53	Ordered Hierarchically Micro- and Mesoporous Fe@N-Embedded Graphitic Architectures as Efficient Electrocatalysts for Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2014, 4, 1793-1800.	5.5	211
54	Ordered mesoporous Fe (or Co)@N-graphitic carbons as excellent non-precious-metal electrocatalysts for oxygen reduction. <i>Carbon</i> , 2014, 78, 49-59.	5.4	84

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55	Synthesis of Urchin-Like Fe ₂ O ₃ Nanoarchitectures and Their Conversion into Three-Dimensional Urchin-Like Mesoporous Fe ₂ O ₃ Nanoarchitectures for Methane Activation. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 4779-4787.	1.0	10
56	Ordered Mesoporous Fe-Porphyrin-Like Architectures as Excellent Cathode Materials for the Oxygen Reduction Reaction in Both Alkaline and Acidic Media. <i>Chemistry - A European Journal</i> , 2013, 19, 16170-16175.	1.7	49
57	Low-temperature activation of methane over rare earth metals promoted Zn/HZSM-5 zeolite catalysts in the presence of ethylene. <i>Journal of Natural Gas Chemistry</i> , 2011, 20, 243-248.	1.8	17
58	Novel nanocasting method for synthesis of ordered mesoporous metal oxides. <i>Journal of Porous Materials</i> , 2011, 18, 107-112.	1.3	4
59	Novel and Selective Method for the Aerobic Oxidation of Benzylic Alcohols in the Absence of Metal Catalyst. <i>Synthetic Communications</i> , 2011, 41, 3066-3070.	1.1	4
60	Facile Preparation of Ionic Liquid Functionalized Magnetic Nano-Solid Acid Catalysts for Acetalization Reaction. <i>Catalysis Letters</i> , 2010, 135, 159-164.	1.4	59
61	A Waste-Free and Highly Effective Catalytic System for the Oxidation of Cysteine to Cystine. <i>Catalysis Letters</i> , 2010, 135, 291-294.	1.4	4
62	Synthesis and Characterization of Task-Specific Ionic Liquids Based on Peroxydisulfate and Their Application in Oxidation Reactions. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 2283-2289.	1.0	11
63	Highly Efficient and Green Oxidation of Nitrotoluenes with Dioxygen as Oxidant in a Novel Homogeneous and Recyclable Catalytic System. <i>Catalysis Letters</i> , 2009, 131, 526-529.	1.4	17
64	Fast preparation of ordered crystalline mesoporous titania with high thermal stability and photo oxidation performance. <i>Journal of Porous Materials</i> , 2009, 16, 9-12.	1.3	1