Kun Wang

List of Publications by Year
in descending order

39	2,147	218677	302126
papers	citations	26 h-index	39 g-index

39	39	39	2641
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Understanding the selectivity trend of water and sulfate (SO42â˜) oxidation on metal oxides: On-site synthesis of persulfate, H2O2 for wastewater treatment. Chemical Engineering Journal, 2022, 431, 134332.	12.7	12
2	Highâ€Temperature Confinement Synthesis of Supported Ptâ€“Ni Nanoparticles for Efficiently Catalyzing Oxygen Reduction Reaction. Advanced Functional Materials, 2022, 32, .	14.9	27
3	MOF-Derived Porous Fe-N-C Materials for Efficiently Electrocatalyzing the Oxygen Reduction Reaction. Energy & Fuels, 2022, 36, 5415-5423.	5.1	12
4	Simultaneous degradation of anodic sludge and cathodic refractory pollutant in a MFC powered EF system enhanced by co-addition of lysozyme and 2-bromoethane sulfonate. Journal of Environmental Chemical Engineering, 2022, 10, 108074.	6.7	1
5	An Fe-N/S-C hybrid electrocatalyst derived from bimetal-organic framework for efficiently electrocatalyzing oxygen reduction reaction in acidic media. Journal of Energy Chemistry, 2021, 52, 291-300.	12.9	28
6	Earth-abundant metal-free carbon-based electrocatalysts for Zn-air batteries to power electrochemical generation of H2O2 for in-situ wastewater treatment. Chemical Engineering Journal, 2021, 416, 128338.	12.7	21
7	Recent developments of nanocarbon based supports for PEMFCs electrocatalysts. Chinese Journal of Catalysis, 2021, 42, 1297-1326.	14.0	38
8	Development of an MFC-powered BEF system with novel Feâ€“Mnâ€“Mg/CF composite cathode to degrade refractory pollutants. Journal of Cleaner Production, 2021, 326, 129348.	9.3	22
9	Recent advances on oxygen reduction electrocatalysis: Correlating the characteristic properties of metal organic frameworks and the derived nanomaterials. Applied Catalysis B: Environmental, 2020, 268, 118570.	20.2	147
10	Iron oxide@graphitic carbon core-shell nanoparticles embedded in ordered mesoporous N-doped carbon matrix as an efficient cathode catalyst for PEMFC. Applied Catalysis B: Environmental, 2020, 264, 118468.	20.2	59
11	In Situ Growth of 2D Ultrathin NiCo₂O₄ Nanosheet Arrays on Ni Foam for High Performance and Flexible Solidâ€State Supercapacitors. Small, 2020, 16, e2004188.	10.0	72
12	Recent advances in electrochemical 2e oxygen reduction reaction for on-site hydrogen peroxide production and beyond. Chemical Communications, 2020, 56, 12109-12121.	4.1	82
13	Fe₃O₄@Nâ€Doped Interconnected Hierarchical Porous Carbon and Its 3D Integrated Electrode for Oxygen Reduction in Acidic Media. Advanced Science, 2020, 7, 2000407.	11.2	44
14	Heterojunction architecture of pTTh nanoflowers with CuOx nanoparticles hybridized for efficient photoelectrocatalytic degradation of organic pollutants. Applied Catalysis B: Environmental, 2020, 277, 119249.	20.2	24
15	Intermediate Adsorption States Switch to Selectively Catalyze Electrochemical CO₂ Reduction. ACS Catalysis, 2020, 10, 3871-3880.	11.2	89
16	Investigation on the coordination mechanism of Pt-containing species and qualification of the alkaline content during Pt/C preparation via a solvothermal polyol method. Chinese Journal of Catalysis, 2020, 41, 820-829.	14.0	19
17	Anionâ€“Cation Double Doped Co₃O₄ Microtube Architecture to Promote High-Valence Co Species Formation for Enhanced Oxygen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2019, 7, 11901-11910.	6.7	50
18	Photo-enhanced Znâ€“air batteries with simultaneous highly efficientin situH₂O₂generation for wastewater treatment. Journal of Materials Chemistry A, 2019, 7, 14129-14135.	10.3	36

#	Article	IF	Citations
19	Enhanced electrocatalytic activity for H2O2 production by the oxygen reduction reaction: Rational control of the structure and composition of multi-walled carbon nanotubes. Chinese Journal of Catalysis, 2019, 40, 523-533.	14.0	37
20	An effective strategy for fabricating highly dispersed nanoparticles on O-C3N4 with enhanced electrocatalytic activity and stability. Journal of Alloys and Compounds, 2018, 741, 1203-1211.	5.5	14
21	Analysis of functional genomes from metagenomes: Revealing the accelerated electron transfer in microbial fuel cell with rhamnolipid addition. Bioelectrochemistry, 2018, 119, 59-67.	4.6	28
22	Enhancement of oxygen reduction reaction performance: The characteristic role of Fe N coordinations. Electrochimica Acta, 2018, 260, 264-273.	5.2	27
23	Layer-stacking porous WCx nanoparticles on carbon cloth as self-supported integrated electrode for hydrogen evolution reaction. Materials Today Energy, 2018, 10, 343-351.	4.7	14
24	In-situ electrosynthesis of hydrogen peroxide and wastewater treatment application: A novel strategy for graphite felt activation. Applied Catalysis B: Environmental, 2018, 237, 392-400.	20.2	148
25	Accelerating anodic biofilms formation and electron transfer in microbial fuel cells: Role of anionic biosurfactants and mechanism. Bioelectrochemistry, 2017, 117, 48-56.	4.6	49
26	3D interconnected hierarchically porous N-doped carbon with NH3 activation for efficient oxygen reduction reaction. Applied Catalysis B: Environmental, 2017, 210, 57-66.	20.2	131
27	Acceleration of organic removal and electricity generation from dewatered oily sludge in a bioelectrochemical system by rhamnolipid addition. Bioresource Technology, 2017, 243, 820-827.	9.6	33
28	A Facile Activation Strategy for an MOF-Derived Metal-Free Oxygen Reduction Reaction Catalyst: Direct Access to Optimized Pore Structure and Nitrogen Species. ACS Catalysis, 2017, 7, 6082-6088.	11.2	188
29	Efficient Pt-free electrocatalyst for oxygen reduction reaction: Highly ordered mesoporous N and S co-doped carbon with saccharin as single-source molecular precursor. Applied Catalysis B: Environmental, 2016, 194, 202-208.	20.2	93
30	A Robust Versatile Hybrid Electrocatalyst for the Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2016, 8, 29356-29364.	8.0	36
31	New Electro-Fenton Gas Diffusion Cathode based on Nitrogen-doped Graphene@Carbon Nanotube Composite Materials. Electrochimica Acta, 2016, 194, 228-238.	5.2	102
32	A novel sulfur-nitrogen dual doped ordered mesoporous carbon electrocatalyst for efficient oxygen reduction reaction. Applied Catalysis B: Environmental, 2016, 189, 1-11.	20.2	123
33	Monodisperse microporous carbon nanospheres: An efficient and stable solid phase microextraction coating material. Analytica Chimica Acta, 2015, 884, 44-51.	5.4	26
34	An investigation of WC stability during the preparation of Pt@WC/OMC via a pulse microwave assisted polyol method. Applied Catalysis B: Environmental, 2015, 166-167, 224-230.	20.2	13
35	Preparation and characterization of a novel KOH activated graphite felt cathode for the electro-Fenton process. Applied Catalysis B: Environmental, 2015, 165, 360-368.	20.2	170
36	Ordered mesoporous tungsten carbide/carbon composites promoted Pt catalyst with high activity and stability for methanol electrooxidation. Applied Catalysis B: Environmental, 2014, 147, 518-525.	20.2	58

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37	Highly ordered mesoporous carbons as the support for Pt catalysts towards alcohol electrooxidation: The combined effect of pore size and electrical conductivity. International Journal of Hydrogen Energy, 2013, 38, 1405-1412.	7.1	22
38	Morphology-controllable ZnOnanotubes and nanowires: synthesis, growth mechanism and hydrophobic property. CrystEngComm, 2012, 14, 1723-1728.	2.6	16
39	Enhanced wettability performance of ultrathin ZnO nanotubes by coupling morphology and size effects. Nanoscale, 2012, 4, 5755.	5.6	36