

Kun Wang

List of Publications by Year in descending order

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39
papers

2,147
citations

218677

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302126

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all docs

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docs citations

39
times ranked

2641
citing authors

#	ARTICLE	IF	CITATIONS
1	A Facile Activation Strategy for an MOF-Derived Metal-Free Oxygen Reduction Reaction Catalyst: Direct Access to Optimized Pore Structure and Nitrogen Species. <i>ACS Catalysis</i> , 2017, 7, 6082-6088.	11.2	188
2	Preparation and characterization of a novel KOH activated graphite felt cathode for the electro-Fenton process. <i>Applied Catalysis B: Environmental</i> , 2015, 165, 360-368.	20.2	170
3	In-situ electrosynthesis of hydrogen peroxide and wastewater treatment application: A novel strategy for graphite felt activation. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 392-400.	20.2	148
4	Recent advances on oxygen reduction electrocatalysis: Correlating the characteristic properties of metal organic frameworks and the derived nanomaterials. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118570.	20.2	147
5	3D interconnected hierarchically porous N-doped carbon with NH ₃ activation for efficient oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2017, 210, 57-66.	20.2	131
6	A novel sulfur-nitrogen dual doped ordered mesoporous carbon electrocatalyst for efficient oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2016, 189, 1-11.	20.2	123
7	New Electro-Fenton Gas Diffusion Cathode based on Nitrogen-doped Graphene@Carbon Nanotube Composite Materials. <i>Electrochimica Acta</i> , 2016, 194, 228-238.	5.2	102
8	Efficient Pt-free electrocatalyst for oxygen reduction reaction: Highly ordered mesoporous N and S co-doped carbon with saccharin as single-source molecular precursor. <i>Applied Catalysis B: Environmental</i> , 2016, 194, 202-208.	20.2	93
9	Intermediate Adsorption States Switch to Selectively Catalyze Electrochemical CO ₂ Reduction. <i>ACS Catalysis</i> , 2020, 10, 3871-3880.	11.2	89
10	Recent advances in electrochemical 2e oxygen reduction reaction for on-site hydrogen peroxide production and beyond. <i>Chemical Communications</i> , 2020, 56, 12109-12121.	4.1	82
11	In Situ Growth of 2D Ultrathin NiCo ₂ O ₄ Nanosheet Arrays on Ni Foam for High Performance and Flexible Solid-State Supercapacitors. <i>Small</i> , 2020, 16, e2004188.	10.0	72
12	Iron oxide@graphitic carbon core-shell nanoparticles embedded in ordered mesoporous N-doped carbon matrix as an efficient cathode catalyst for PEMFC. <i>Applied Catalysis B: Environmental</i> , 2020, 264, 118468.	20.2	59
13	Ordered mesoporous tungsten carbide/carbon composites promoted Pt catalyst with high activity and stability for methanol electrooxidation. <i>Applied Catalysis B: Environmental</i> , 2014, 147, 518-525.	20.2	58
14	Anion-Cation Double Doped Co ₃ O ₄ Microtube Architecture to Promote High-Valence Co Species Formation for Enhanced Oxygen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11901-11910.	6.7	50
15	Accelerating anodic biofilms formation and electron transfer in microbial fuel cells: Role of anionic biosurfactants and mechanism. <i>Bioelectrochemistry</i> , 2017, 117, 48-56.	4.6	49
16	Fe ₃ O ₄ @N-Doped Interconnected Hierarchical Porous Carbon and Its 3D Integrated Electrode for Oxygen Reduction in Acidic Media. <i>Advanced Science</i> , 2020, 7, 2000407.	11.2	44
17	Recent developments of nanocarbon based supports for PEMFCs electrocatalysts. <i>Chinese Journal of Catalysis</i> , 2021, 42, 1297-1326.	14.0	38
18	Enhanced electrocatalytic activity for H ₂ O ₂ production by the oxygen reduction reaction: Rational control of the structure and composition of multi-walled carbon nanotubes. <i>Chinese Journal of Catalysis</i> , 2019, 40, 523-533.	14.0	37

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19	Enhanced wettability performance of ultrathin ZnO nanotubes by coupling morphology and size effects. <i>Nanoscale</i> , 2012, 4, 5755.	5.6	36
20	A Robust Versatile Hybrid Electrocatalyst for the Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29356-29364.	8.0	36
21	Photo-enhanced Zn-air batteries with simultaneous highly efficient H_2O_2 generation for wastewater treatment. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14129-14135.	10.3	36
22	Acceleration of organic removal and electricity generation from dewatered oily sludge in a bioelectrochemical system by rhamnolipid addition. <i>Bioresource Technology</i> , 2017, 243, 820-827.	9.6	33
23	Analysis of functional genomes from metagenomes: Revealing the accelerated electron transfer in microbial fuel cell with rhamnolipid addition. <i>Bioelectrochemistry</i> , 2018, 119, 59-67.	4.6	28
24	An Fe-N/S-C hybrid electrocatalyst derived from bimetal-organic framework for efficiently electrocatalyzing oxygen reduction reaction in acidic media. <i>Journal of Energy Chemistry</i> , 2021, 52, 291-300.	12.9	28
25	Enhancement of oxygen reduction reaction performance: The characteristic role of Fe N coordinations. <i>Electrochimica Acta</i> , 2018, 260, 264-273.	5.2	27
26	High-temperature Confinement Synthesis of Supported Pt-Ni Nanoparticles for Efficiently Catalyzing Oxygen Reduction Reaction. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	27
27	Monodisperse microporous carbon nanospheres: An efficient and stable solid phase microextraction coating material. <i>Analytica Chimica Acta</i> , 2015, 884, 44-51.	5.4	26
28	Heterojunction architecture of pTTh nanoflowers with CuOx nanoparticles hybridized for efficient photoelectrocatalytic degradation of organic pollutants. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119249.	20.2	24
29	Highly ordered mesoporous carbons as the support for Pt catalysts towards alcohol electrooxidation: The combined effect of pore size and electrical conductivity. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 1405-1412.	7.1	22
30	Development of an MFC-powered BEF system with novel Fe-Mn-Mg/CF composite cathode to degrade refractory pollutants. <i>Journal of Cleaner Production</i> , 2021, 326, 129348.	9.3	22
31	Earth-abundant metal-free carbon-based electrocatalysts for Zn-air batteries to power electrochemical generation of H ₂ O ₂ for in-situ wastewater treatment. <i>Chemical Engineering Journal</i> , 2021, 416, 128338.	12.7	21
32	Investigation on the coordination mechanism of Pt-containing species and qualification of the alkaline content during Pt/C preparation via a solvothermal polyol method. <i>Chinese Journal of Catalysis</i> , 2020, 41, 820-829.	14.0	19
33	Morphology-controllable ZnO nanotubes and nanowires: synthesis, growth mechanism and hydrophobic property. <i>CrystEngComm</i> , 2012, 14, 1723-1728.	2.6	16
34	An effective strategy for fabricating highly dispersed nanoparticles on O-C ₃ N ₄ with enhanced electrocatalytic activity and stability. <i>Journal of Alloys and Compounds</i> , 2018, 741, 1203-1211.	5.5	14
35	Layer-stacking porous WCx nanoparticles on carbon cloth as self-supported integrated electrode for hydrogen evolution reaction. <i>Materials Today Energy</i> , 2018, 10, 343-351.	4.7	14
36	An investigation of WC stability during the preparation of Pt@WC/OMC via a pulse microwave assisted polyol method. <i>Applied Catalysis B: Environmental</i> , 2015, 166-167, 224-230.	20.2	13

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37	Understanding the selectivity trend of water and sulfate (SO ₄ ²⁻) oxidation on metal oxides: On-site synthesis of persulfate, H ₂ O ₂ for wastewater treatment. <i>Chemical Engineering Journal</i> , 2022, 431, 134332.	12.7	12
38	MOF-Derived Porous Fe-N-C Materials for Efficiently Electrocatalyzing the Oxygen Reduction Reaction. <i>Energy & Fuels</i> , 2022, 36, 5415-5423.	5.1	12
39	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. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108074.	6.7	1