Jae Hyung Kim

List of Publications by Year
in descending order

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23	1,386	361413	642732
papers	citations	20 h-index	23 g-index

23	23	23	1791
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Active Edgeâ€Siteâ€Rich Carbon Nanocatalysts with Enhanced Electron Transfer for Efficient Electrochemical Hydrogen Peroxide Production. Angewandte Chemie - International Edition, 2019, 58, 1100-1105.	13.8	244
2	Atomically dispersed Ptâ€“N4 sites as efficient and selective electrocatalysts for the chlorine evolution reaction. Nature Communications, 2020, 11, 412.	12.8	154
3	Roles of Feâ€“N_x and Feâ€“Fe₃C@C Species in Feâ€“N/C Electrocatalysts for Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2017, 9, 9567-9575.	8.0	151
4	A General Strategy to Atomically Dispersed Precious Metal Catalysts for Unravelling Their Catalytic Trends for Oxygen Reduction Reaction. ACS Nano, 2020, 14, 1990-2001.	14.6	116
5	Effect of surface oxygen functionalization of carbon support on the activity and durability of Pt/C catalysts for the oxygen reduction reaction. Carbon, 2016, 101, 449-457.	10.3	115
6	Designing highly active nanoporous carbon H2O2 production electrocatalysts through active site identification. CheM, 2021, 7, 3114-3130.	11.7	109
7	Unassisted solar lignin valorisation using a compartmented photo-electro-biochemical cell. Nature Communications, 2019, 10, 5123.	12.8	67
8	Heteroatom-doped carbon-based oxygen reduction electrocatalysts with tailored four-electron and two-electron selectivity. Chemical Communications, 2021, 57, 7350-7361.	4.1	43
9	Single-Atom Catalysts: A Perspective toward Application in Electrochemical Energy Conversion. Jacs Au, 2021, 1, 1086-1100.	7.9	43
10	Ordered Mesoporous Carbons with Graphitic Tubular Frameworks by Dual Templating for Efficient Electrocatalysis and Energy Storage. Angewandte Chemie - International Edition, 2021, 60, 1441-1449.	13.8	40
11	General Efficacy of Atomically Dispersed Pt Catalysts for the Chlorine Evolution Reaction: Potential-Dependent Switching of the Kinetics and Mechanism. ACS Catalysis, 2021, 11, 12232-12246.	11.2	40
12	Electrocatalyst design for promoting two-electron oxygen reduction reaction: Isolation of active site atoms. Current Opinion in Electrochemistry, 2020, 21, 109-116.	4.8	39
13	Impact of framework structure of ordered mesoporous carbons on the performance of supported Pt catalysts for oxygen reduction reaction. Carbon, 2014, 72, 354-364.	10.3	37
14	Upcycling of nonporous coordination polymers: controllable-conversion toward porosity-tuned N-doped carbons and their electrocatalytic activity in seawater batteries. Journal of Materials Chemistry A, 2016, 4, 13468-13475.	10.3	29
15	Hierarchically porous adamantane-shaped carbon nanoframes. Journal of Materials Chemistry A, 2018, 6, 18906-18911.	10.3	29
16	Reversible Ligand Exchange in Atomically Dispersed Catalysts for Modulating the Activity and Selectivity of the Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2021, 60, 20528-20534.	13.8	27
17	Impact of Textural Properties of Mesoporous Porphyrinic Carbon Electrocatalysts on Oxygen Reduction Reaction Activity. ChemElectroChem, 2018, 5, 1928-1936.	3.4	25
18	Structure-dependent catalytic properties of mesoporous cobalt oxides in furfural hydrogenation. Applied Catalysis A: General, 2019, 583, 117125.	4.3	22

#	Article	IF	Citations
19	Active Edgeâ€Siteâ€Rich Carbon Nanocatalysts with Enhanced Electron Transfer for Efficient Electrochemical Hydrogen Peroxide Production. Angewandte Chemie, 2019, 131, 1112-1117.	2.0	22
20	Recent Progress in the Identification of Active Sites in Pyrolyzed Feâˆ’N/C Catalysts and Insights into Their Role in Oxygen Reduction Reaction. Journal of Electrochemical Science and Technology, 2017, 8, 169-182.	2.2	22
21	Ordered Mesoporous Carbons with Graphitic Tubular Frameworks by Dual Templating for Efficient Electrocatalysis and Energy Storage. Angewandte Chemie, 2021, 133, 1461-1469.	2.0	5
22	Boosting Thermal Stability of Volatile Os Catalysts by Downsizing to Atomically Dispersed Species. Jacs Au, 2022, 2, 1811-1817.	7.9	4
23	Reversible Ligand Exchange in Atomically Dispersed Catalysts for Modulating the Activity and Selectivity of the Oxygen Reduction Reaction. Angewandte Chemie, 2021, 133, 20691-20697.	2.0	3