Jaehoon Kim

List of Publications by Year
in descending order

23 papers	3,908 citations	623188 14 h-index	676716 22 g-index
23 all docs	23 docs citations	23 times ranked	5845 citing authors

#	Article	IF	Citations
1	Advances in molecular quantum chemistry contained in the Q-Chem 4 program package. Molecular Physics, 2015, 113, 184-215.	0.8	2,561
2	Software for the frontiers of quantum chemistry: An overview of developments in the Q-Chem 5 package. Journal of Chemical Physics, 2021, 155, 084801.	1.2	518
3	Exploring the possibilities of two-dimensional transition metal carbides as anode materials for sodium batteries. Physical Chemistry Chemical Physics, 2015, 17, 5000-5005.	1.3	159
4	Nanoporous Au Thin Films on Si Photoelectrodes for Selective and Efficient Photoelectrochemical CO₂ Reduction. Advanced Energy Materials, 2017, 7, 1601103.	10.2	141
5	Rational Design of Efficient Electrocatalysts for Hydrogen Evolution Reaction: Single Layers of WS₂ Nanoplates Anchored to Hollow Nitrogen-Doped Carbon Nanofibers. ACS Applied Materials & Interfaces, 2015, 7, 28116-28121.	4.0	92
6	Active learning with non-ab initio input features toward efficient CO₂ reduction catalysts. Chemical Science, 2018, 9, 5152-5159.	3.7	82
7	Formation of Two-Dimensional Homologous Faults and Oxygen Electrocatalytic Activities in a Perovskite Nickelate. Nano Letters, 2017, 17, 3126-3132.	4.5	73
8	Morphology-controlled Au nanostructures for efficient and selective electrochemical CO₂reduction. Journal of Materials Chemistry A, 2018, 6, 5119-5128.	5.2	59
9	Bottom-up synthesis of fully sp² hybridized three-dimensional microporous graphitic frameworks as metal-free catalysts. Journal of Materials Chemistry A, 2017, 5, 12080-12085.	5.2	44
10	Origin of unusual spinel-to-layered phase transformation by crystal water. Chemical Science, 2018, 9, 433-438.	3.7	31
11	Modulating the magnetic behavior of Fe(<scp>ii</scp>)â€“MOF-74 by the high electron affinity of the guest molecule. Physical Chemistry Chemical Physics, 2015, 17, 16977-16982.	1.3	23
12	Analytical Double-Hybrid Density Functional Based on the Polynomial Series Expansion of Adiabatic Connection: A Quadratic Approximation. Journal of Chemical Theory and Computation, 2015, 11, 45-54.	2.3	22
13	Enhanced catalytic activity for CO oxidation by the metalâ€“oxide perimeter of TiO₂/nanostructured Au inverse catalysts. Nanoscale, 2018, 10, 3911-3917.	2.8	22
14	Wafer-Scale Ultrathin, Single-Crystal Si and GaAs Photocathodes for Photoelectrochemical Hydrogen Production. ACS Applied Materials & Interfaces, 2018, 10, 33230-33237.	4.0	21
15	High efficiency n-Si/p-Cu2O core-shell nanowires photodiode prepared by atomic layer deposition of Cu2O on well-ordered Si nanowires array. Electronic Materials Letters, 2016, 12, 404-410.	1.0	14
16	Engraving High-Density Nanogaps in Gold Thin Films via Sequential Anodization and Reduction for Surface-Enhanced Raman Spectroscopy Applications. Chemistry of Materials, 2018, 30, 6183-6191.	3.2	12
17	Formation of GaP nanocones and micro-mesas by metal-assisted chemical etching. Physical Chemistry Chemical Physics, 2016, 18, 3402-3408.	1.3	11
18	A perspective on the density matrix purification for linear scaling electronic structure calculations. International Journal of Quantum Chemistry, 2016, 116, 563-568.	1.0	7

#	Article	IF	Citations
19	Accelerated Purification Using Generalized Nonpurifying Intermediate Functions for Large-Scale Self-Consistent Field Calculations. Journal of Chemical Theory and Computation, 2011, 7, 3853-3858.	2.3	6
20	On the optimal symmetric purification scheme of the one-particle density matrix. Chemical Physics Letters, 2011, 511, 159-160.	1.2	5
21	CO2 Reduction: Nanoporous Au Thin Films on Si Photoelectrodes for Selective and Efficient Photoelectrochemical CO2 Reduction (Adv. Energy Mater. 3/2017). Advanced Energy Materials, 2017, 7, .	10.2	3
22	Facile electrochemical synthesis of dilute AuCu alloy nanostructures for selective and long-term stable CO2 electrolysis. Journal of Chemical Physics, 2020, 153, 054702.	1.2	2
23	Reply to Comment on â€˜On the optimal symmetric purification scheme of the one-particle density matrixâ€™. Chemical Physics Letters, 2012, 527, 86-88.	1.2	0