Hyun Woo Kim

List of Publications by Year
in descending order

34 papers	1,082 citations	394421 19 h-index	395702 33 g-index
36 all docs	36 docs citations	36 times ranked	2015 citing authors

#	Article	IF	Citations
1	Twoâ€dimensional electronic spectrum simulation of simple photosynthetic complex models with semiâ€classical Poisson bracket mapping equation. Bulletin of the Korean Chemical Society, 2022, 43, 355-363.	1.9	2
2	An Easy, Simple, and Accessible Web-based Machine Learning Platform, SimPL-ML. Integrating Materials and Manufacturing Innovation, 2022, 11, 85.	2.6	0
3	Contrastive representation learning of inorganic materials to overcome lack of training datasets. Chemical Communications, 2022, 58, 6729-6732.	4.1	2
4	Reverse graph self-attention for target-directed atomic importance estimation. Neural Networks, 2021, 133, 1-10.	5.9	3
5	Reaction condition optimization for non-oxidative conversion of methane using artificial intelligence. Reaction Chemistry and Engineering, 2021, 6, 235-243.	3.7	13
6	In situ electrochemically synthesized Pt-MoO3âˆ'x nanostructure catalysts for efficient hydrogen evolution reaction. Journal of Catalysis, 2020, 381, 1-13.	6.2	35
7	Mechanistic and microkinetic study of non-oxidative methane coupling on a single-atom iron catalyst. Communications Chemistry, 2020, 3, .	4.5	32
8	Atomic-layer-deposited SnO₂ on Pt/C prevents sintering of Pt nanoparticles and affects the reaction chemistry for the electrocatalytic glycerol oxidation reaction. Journal of Materials Chemistry A, 2020, 8, 15992-16005.	10.3	18
9	Costless Performance Improvement in Machine Learning for Graph-Based Molecular Analysis. Journal of Chemical Information and Modeling, 2020, 60, 1137-1145.	5.4	12
10	Machine-guided representation for accurate graph-based molecular machine learning. Physical Chemistry Chemical Physics, 2020, 22, 18526-18535.	2.8	25
11	Two-oscillator mapping modification of the Poisson bracket mapping equation formulation of the quantumâ€"classical Liouville equation. Journal of Chemical Physics, 2020, 153, 214103.	3.0	7
12	Applying Machine Learning Algorithms to Predict Potential Energies and Atomic Forces during C-H Activation. Journal of the Korean Physical Society, 2020, 77, 680-688.	0.7	2
13	Nonoxidative Direct Conversion of Methane on Silica-Based Iron Catalysts: Effect of Catalytic Surface. ACS Catalysis, 2019, 9, 7984-7997.	11.2	61
14	Sulfated Tin Oxide as Highly Selective Catalyst for the Chlorination of Methane to Methyl Chloride. ACS Catalysis, 2019, 9, 9398-9410.	11.2	22
15	Identifying Pb-free perovskites for solar cells by machine learning. Npj Computational Materials, 2019, 5, .	8.7	129
16	Smart SERS Hot Spots: Single Molecules Can Be Positioned in a Plasmonic Nanojunction Using Hostâ€"Guest Chemistry. Journal of the American Chemical Society, 2018, 140, 4705-4711.	13.7	102
17	Palladium-Catalyzed Asymmetric Nitrogen-Selective Addition Reaction of Indoles to Alkoxyallenes. Organic Letters, 2018, 20, 1248-1251.	4.6	36
18	High-Performance Near-Infrared Absorbing n-Type Porphyrin Acceptor for Organic Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 41344-41349.	8.0	37

#	Article	IF	Citations
19	Chargeâ€“dipole interactions in G-quadruplex thrombin-binding aptamer. Physical Chemistry Chemical Physics, 2018, 20, 21068-21074.	2.8	10
20	Artificial light-harvesting n-type porphyrin for panchromatic organic photovoltaic devices. Chemical Science, 2017, 8, 5095-5100.	7.4	50
21	The Role of Ruthenium on Carbonâ€Supported PtRu Catalysts for Electrocatalytic Glycerol Oxidation under Acidic Conditions. ChemCatChem, 2017, 9, 1683-1690.	3.7	56
22	Effect of atomic-layer-deposited TiO 2 on carbon-supported Ni catalysts for electrocatalytic glycerol oxidation in alkaline media. Electrochemistry Communications, 2017, 83, 46-50.	4.7	33
23	In Situ Electrochemical Activation of Atomic Layer Deposition Coated MoS₂ Basal Planes for Efficient Hydrogen Evolution Reaction. Advanced Functional Materials, 2017, 27, 1701825.	14.9	87
24	Highly Sensitive and Selective Biosensors Based on Organic Transistors Functionalized with Cucurbit[6]uril Derivatives. Advanced Functional Materials, 2015, 25, 4882-4888.	14.9	66
25	Improving long time behavior of Poisson bracket mapping equation: A mapping variable scaling approach. Journal of Chemical Physics, 2014, 141, 124107.	3.0	14
26	Improving long time behavior of Poisson bracket mapping equation: A non-Hamiltonian approach. Journal of Chemical Physics, 2014, 140, 184106.	3.0	38
27	DNSC: a fluorescent, environmentally sensitive cytidine derivative for the direct detection of GGG triad sequences. Organic and Biomolecular Chemistry, 2013, 11, 5605.	2.8	14
28	Fluorescent peptide indicator displacement assay for monitoring interactions between RNA and RNA binding proteins. Molecular BioSystems, 2013, 9, 948-951.	2.9	5
29	On the pH Dependent Behavior of the Firefly Bioluminescence: Protein Dynamics and Water Content in the Active Pocket. Journal of Physical Chemistry B, 2013, 117, 7260-7269.	2.6	10
30	Moleculeâ€specific determination of atomic polarizabilities with the polarizable atomic multipole model. Journal of Computational Chemistry, 2012, 33, 1662-1672.	3.3	5
31	All-Atom Semiclassical Dynamics Study of Quantum Coherence in Photosynthetic Fennaâ€“Matthewsâ€“Olson Complex. Journal of the American Chemical Society, 2012, 134, 11640-11651.	13.7	61
32	On the Mechanism of Irreversible Carbon Dioxide Binding with a Frustrated Lewis Pair: Solventâ€Assisted Frustration and Transitionâ€State Entropic Encouragement. Chemistry - A European Journal, 2011, 17, 6501-6507.	3.3	24
33	Condensed phase molecular dynamics using interpolated potential energy surfaces with application to the resolvation process of coumarin 153. Journal of Chemical Physics, 2011, 135, 014107.	3.0	26
34	Dispersionâ€Oriented Soft Interaction in a Frustrated Lewis Pair and the Entropic Encouragement Effect in its Formation. Chemistry - A European Journal, 2009, 15, 13348-13355.	3.3	45