Hyun Woo Kim

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3579327/publications.pdf

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34	1,082	394421	395702
papers	citations	19	33
		h-index	g-index

36	36	36	2015
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Identifying Pb-free perovskites for solar cells by machine learning. Npj Computational Materials, 2019, 5, .	8.7	129
2	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
3	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
4	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
5	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
6	Nonoxidative Direct Conversion of Methane on Silica-Based Iron Catalysts: Effect of Catalytic Surface. ACS Catalysis, 2019, 9, 7984-7997.	11.2	61
7	The Role of Ruthenium on Carbonâ€Supported PtRu Catalysts for Electrocatalytic Glycerol Oxidation under Acidic Conditions. ChemCatChem, 2017, 9, 1683-1690.	3.7	56
8	Artificial light-harvesting n-type porphyrin for panchromatic organic photovoltaic devices. Chemical Science, 2017, 8, 5095-5100.	7.4	50
9	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
10	Improving long time behavior of Poisson bracket mapping equation: A non-Hamiltonian approach. Journal of Chemical Physics, 2014, 140, 184106.	3.0	38
11	High-Performance Near-Infrared Absorbing n-Type Porphyrin Acceptor for Organic Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 41344-41349.	8.0	37
12	Palladium-Catalyzed Asymmetric Nitrogen-Selective Addition Reaction of Indoles to Alkoxyallenes. Organic Letters, 2018, 20, 1248-1251.	4.6	36
13	In situ electrochemically synthesized Pt-MoO3â^'x nanostructure catalysts for efficient hydrogen evolution reaction. Journal of Catalysis, 2020, 381, 1-13.	6.2	35
14	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
15	Mechanistic and microkinetic study of non-oxidative methane coupling on a single-atom iron catalyst. Communications Chemistry, 2020, 3, .	4.5	32
16	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
17	Machine-guided representation for accurate graph-based molecular machine learning. Physical Chemistry Chemical Physics, 2020, 22, 18526-18535.	2.8	25
18	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

#	Article	IF	Citations
19	Sulfated Tin Oxide as Highly Selective Catalyst for the Chlorination of Methane to Methyl Chloride. ACS Catalysis, 2019, 9, 9398-9410.	11.2	22
20	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
21	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
22	Improving long time behavior of Poisson bracket mapping equation: A mapping variable scaling approach. Journal of Chemical Physics, 2014, 141, 124107.	3.0	14
23	Reaction condition optimization for non-oxidative conversion of methane using artificial intelligence. Reaction Chemistry and Engineering, 2021, 6, 235-243.	3.7	13
24	Costless Performance Improvement in Machine Learning for Graph-Based Molecular Analysis. Journal of Chemical Information and Modeling, 2020, 60, 1137-1145.	5.4	12
25	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
26	Chargeâ€“dipole interactions in G-quadruplex thrombin-binding aptamer. Physical Chemistry Chemical Physics, 2018, 20, 21068-21074.	2.8	10
27	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
28	Moleculeâ€specific determination of atomic polarizabilities with the polarizable atomic multipole model. Journal of Computational Chemistry, 2012, 33, 1662-1672.	3.3	5
29	Fluorescent peptide indicator displacement assay for monitoring interactions between RNA and RNA binding proteins. Molecular BioSystems, 2013, 9, 948-951.	2.9	5
30	Reverse graph self-attention for target-directed atomic importance estimation. Neural Networks, 2021, 133, 1-10.	5.9	3
31	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
32	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
33	Contrastive representation learning of inorganic materials to overcome lack of training datasets. Chemical Communications, 2022, 58, 6729-6732.	4.1	2
34	An Easy, Simple, and Accessible Web-based Machine Learning Platform, SimPL-ML. Integrating Materials and Manufacturing Innovation, 2022, 11, 85.	2.6	0