

# Min-Cheol Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

1,206  
citations

567281

15  
h-index

839539

18  
g-index

20  
all docs

20  
docs citations

20  
times ranked

1603  
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding and Reducing Errors in Density Functional Calculations. <i>Physical Review Letters</i> , 2013, 111, 073003.	7.8	271
2	Ultrathin Zirconium Disulfide Nanodiscs. <i>Journal of the American Chemical Society</i> , 2011, 133, 7636-7639.	13.7	149
3	Communication: Avoiding unbound anions in density functional calculations. <i>Journal of Chemical Physics</i> , 2011, 134, 171103.	3.0	93
4	The Importance of Being Inconsistent. <i>Annual Review of Physical Chemistry</i> , 2017, 68, 555-581.	10.8	93
5	Ions in solution: Density corrected density functional theory (DC-DFT). <i>Journal of Chemical Physics</i> , 2014, 140, 18A528.	3.0	87
6	Improved DFT Potential Energy Surfaces via Improved Densities. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3802-3807.	4.6	79
7	Reversible Transformation of Helical Coils and Straight Rods in Cylindrical Assembly of Elliptical Macrocycles. <i>Journal of the American Chemical Society</i> , 2009, 131, 17768-17770.	13.7	78
8	Benchmarks and Reliable DFT Results for Spin Gaps of Small Ligand Fe(II) Complexes. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 2304-2311.	5.3	71
9	Biased Helical Folding of Chiral Oligoindole Foldamers. <i>Organic Letters</i> , 2008, 10, 5373-5376.	4.6	70
10	Mass Transport Control by Surface Graphene Oxide for Selective CO <sub>2</sub> Reduction. <i>ACS Catalysis</i> , 2020, 10, 3222-3231.	11.2	57
11	Hydrogen Bonding-Mediated Enhancement of Bioinspired Electrochemical Nitrogen Reduction on Cu <sub>2</sub> S Catalysts. <i>ACS Catalysis</i> , 2020, 10, 10577-10584.	11.2	43
12	Folding of Coordination Polymers into Double-Stranded Helical Organization. <i>Chemistry - A European Journal</i> , 2008, 14, 3883-3888.	3.3	35
13	Origin of Enhanced Ammonia Synthesis on Ru-Co Catalysts Unraveled by Density Functional Theory. <i>ACS Catalysis</i> , 2022, 12, 1090-1097.	11.2	25
14	High-throughput computational-experimental screening protocol for the discovery of bimetallic catalysts. <i>Npj Computational Materials</i> , 2021, 7, .	8.7	20
15	Anisotropic growth of Pt on Pd nanocube promotes direct synthesis of hydrogen peroxide. <i>Applied Surface Science</i> , 2021, 562, 150031.	6.1	16
16	Solid-solution alloying of immiscible Pt and Au boosts catalytic performance for H <sub>2</sub> O <sub>2</sub> direct synthesis. <i>Acta Materialia</i> , 2021, 205, 116563.	7.9	10
17	Three-in-One Strategy to Improve Both Catalytic Activity and Selectivity: Nonconcentric Pd-Au Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11098-11105.	4.6	5
18	Electrochemically Modeling a Nonelectrochemical System: Hydrogen Peroxide Direct Synthesis on Palladium Catalysts. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4490-4495.	4.6	4

#	ARTICLE	IF	CITATIONS
19	Dissociation curves of diatomic molecules: A DC-DFT study. AIP Conference Proceedings, 2015, , .	0.4	0
20	<scp>Softâ€wall</scp> ion transfer channel accurately predicts sterically hindered ion channel permeability. Bulletin of the Korean Chemical Society, 2022, 43, 514-522.	1.9	0