

# 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	<sc>Softâ€wall</sc> ion transfer channel accurately predicts sterically hindered ion channel permeability. Bulletin of the Korean Chemical Society, 2022, 43, 514-522.	1.9	0
2	Origin of Enhanced Ammonia Synthesis on Ruâ€Co Catalysts Unraveled by Density Functional Theory. ACS Catalysis, 2022, 12, 1090-1097.	11.2	25
3	Solid-solution alloying of immiscible Pt and Au boosts catalytic performance for H <sub>2</sub> O <sub>2</sub> direct synthesis. Acta Materialia, 2021, 205, 116563.	7.9	10
4	Electrochemically Modeling a Nonelectrochemical System: Hydrogen Peroxide Direct Synthesis on Palladium Catalysts. Journal of Physical Chemistry Letters, 2021, 12, 4490-4495.	4.6	4
5	High-throughput computational-experimental screening protocol for the discovery of bimetallic catalysts. Npj Computational Materials, 2021, 7, .	8.7	20
6	Anisotropic growth of Pt on Pd nanocube promotes direct synthesis of hydrogen peroxide. Applied Surface Science, 2021, 562, 150031.	6.1	16
7	Three-in-One Strategy to Improve Both Catalytic Activity and Selectivity: Nonconcentric Pdâ€Au Nanoparticles. Journal of Physical Chemistry Letters, 2021, 12, 11098-11105.	4.6	5
8	Hydrogen Bonding-Mediated Enhancement of Bioinspired Electrochemical Nitrogen Reduction on Cu<sub>2</sub>S Catalysts. ACS Catalysis, 2020, 10, 10577-10584.	11.2	43
9	Mass Transport Control by Surface Graphene Oxide for Selective CO Production from Electrochemical CO<sub>2</sub> Reduction. ACS Catalysis, 2020, 10, 3222-3231.	11.2	57
10	Benchmarks and Reliable DFT Results for Spin Gaps of Small Ligand Fe(II) Complexes. Journal of Chemical Theory and Computation, 2018, 14, 2304-2311.	5.3	71
11	The Importance of Being Inconsistent. Annual Review of Physical Chemistry, 2017, 68, 555-581.	10.8	93
12	Dissociation curves of diatomic molecules: A DC-DFT study. AIP Conference Proceedings, 2015, , .	0.4	0
13	Improved DFT Potential Energy Surfaces via Improved Densities. Journal of Physical Chemistry Letters, 2015, 6, 3802-3807.	4.6	79
14	Ions in solution: Density corrected density functional theory (DC-DFT). Journal of Chemical Physics, 2014, 140, 18A528.	3.0	87
15	Understanding and Reducing Errors in Density Functional Calculations. Physical Review Letters, 2013, 111, 073003.	7.8	271
16	Ultrathin Zirconium Disulfide Nanodiscs. Journal of the American Chemical Society, 2011, 133, 7636-7639.	13.7	149
17	Communication: Avoiding unbound anions in density functional calculations. Journal of Chemical Physics, 2011, 134, 171103.	3.0	93
18	Reversible Transformation of Helical Coils and Straight Rods in Cylindrical Assembly of Elliptical Macrocycles. Journal of the American Chemical Society, 2009, 131, 17768-17770.	13.7	78

#	ARTICLE	IF	CITATIONS
19	Folding of Coordination Polymers into Double-Stranded Helical Organization. Chemistry - A European Journal, 2008, 14, 3883-3888.	3.3	35
20	Biased Helical Folding of Chiral Oligoindole Foldamers. Organic Letters, 2008, 10, 5373-5376.	4.6	70