

# Dong Yeon Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

1,640  
citations

687363

13  
h-index

642732

23  
g-index

23  
all docs

23  
docs citations

23  
times ranked

2026  
citing authors

#	ARTICLE	IF	CITATIONS
1	Al <sup>3+</sup> -Doping Driven Suppression of Capacity and Voltage Fadings in 4d-Element Containing Li-Ion Battery Cathode Materials: Machine Learning and Density Functional Theory. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	42
2	Facile room-temperature self-assembly of extended cation-free guanine-quartet network on Mo-doped Au(111) surface. <i>Nanoscale Advances</i> , 2021, 3, 3867-3874.	4.6	2
3	A universal screening strategy for the accelerated design of superior oxygen evolution/reduction electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3511-3519.	10.3	21
4	Ruthenium Core-Shell Engineering with Nickel Single Atoms for Selective Oxygen Evolution via Nondestructive Mechanism. <i>Advanced Energy Materials</i> , 2021, 11, 2003448.	19.5	124
5	Tuning metal single atoms embedded in N <sub>x</sub> C <sub>y</sub> moieties toward high-performance electrocatalysis. <i>Energy and Environmental Science</i> , 2021, 14, 3455-3468.	30.8	176
6	Alkali-Metal-Mediated Reversible Chemical Hydrogen Storage Using Seawater. <i>Jacs Au</i> , 2021, 1, 2339-2348.	7.9	6
7	Machine Learning for Predicting the Band Gaps of ABX <sub>3</sub> Perovskites from Elemental Properties. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8905-8918.	3.1	99
8	Rational design of metal-ligands for the conversion of CH <sub>4</sub> and CO <sub>2</sub> to acetates: role of acids and Lewis acids. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14671-14679.	10.3	7
9	Immiscible bi-metal single-atoms driven synthesis of electrocatalysts having superb mass-activity and durability. <i>Applied Catalysis B: Environmental</i> , 2020, 270, 118896.	20.2	102
10	Quantum Monte Carlo Study of the Water Dimer Binding Energy and Halogen-H Interactions. <i>Journal of Physical Chemistry A</i> , 2019, 123, 7785-7791.	2.5	5
11	Superb water splitting activity of the electrocatalyst Fe <sub>3</sub> Co(PO <sub>4</sub> ) <sub>4</sub> designed with computation aid. <i>Nature Communications</i> , 2019, 10, 5195.	12.8	120
12	High-Performance Hydrogen Evolution by Ru Single Atoms and Nitrided-Ru Nanoparticles Implanted on N-Doped Graphitic Sheet. <i>Advanced Energy Materials</i> , 2019, 9, 1900931.	19.5	224
13	Band Gap Narrowing of Zinc Orthogermanate by Dimensional and Defect Modification. <i>Journal of Physical Chemistry C</i> , 2019, 123, 14573-14581.	3.1	6
14	An ultra-sensitive, flexible and transparent gas detection film based on well-ordered flat polypyrrole on single-layered graphene. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2257-2263.	10.3	33
15	Anisotropic and amphoteric characteristics of diverse carbenes. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13722-13733.	2.8	4
16	Synthesis and radical polymerization properties of thermal radical initiators based on amino-isoourea: The effect of the alkyl side chain on the radical initiation temperature. <i>Journal of Polymer Science Part A</i> , 2018, 56, 1749-1756.	2.3	5
17	Multicomponent electrocatalyst with ultralow Pt loading and high hydrogen evolution activity. <i>Nature Energy</i> , 2018, 3, 773-782.	39.5	542
18	Size-dependent conformational change in halogen-H interaction: from benzene to graphene. <i>Chemical Communications</i> , 2017, 53, 6140-6143.	4.1	19

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19	Adsorption of Carbon Tetrahalides on Coronene and Graphene. <i>Journal of Physical Chemistry C</i> , 2017, 121, 14968-14974.	3.1	11
20	Thermal radical initiator derivatives based on O-imino-isourea: Synthesis, polymerization, and characterization. <i>Journal of Polymer Science Part A</i> , 2016, 54, 3593-3600.	2.3	10
21	Halogen- $\pi$ Interactions between Benzene and X <sub>2</sub> /CX <sub>4</sub> (X = Cl, Br): Assessment of Various Density Functionals with Respect to CCSD(T). <i>Journal of Physical Chemistry A</i> , 2016, 120, 9305-9314.	2.5	32