Sungwoo Kang

List of Publications by Year
in descending order

16 papers	464 citations	840776 11 h-index	940533 16 g-index
17 all docs	17 docs citations	17 times ranked	780 citing authors

#	Article	IF	Citations
1	First-Principles Calculations of Luminescence Spectra of Real-Scale Quantum Dots. ACS Materials Au, 2022, 2, 103-109.	6.0	3
2	Understanding the Role of Electronic Effects in CO on the Pt–Sn Alloy Surface via Band Structure Measurements. ACS Catalysis, 2022, 12, 219-225.	11.2	14
3	Accelerated identification of equilibrium structures of multicomponent inorganic crystals using machine learning potentials. Npj Computational Materials, 2022, 8, .	8.7	14
4	Identification of Active Sites for CO_2 Reduction on Graphene-Supported Single-Atom Catalysts. ChemSusChem, 2021, 14, 2475-2480.	6.8	5
5	Density Functional Theory Study of Edge-Induced Atomic-Scale Structural Phase Transitions of MoS2 Nanocrystals: Implications for a High-Performance Catalyst. ACS Applied Nano Materials, 2021, 4, 5496-5502.	5.0	2
6	Production of C, N Alternating 2D Materials Using Covalent Modification and Their Electroluminescence Performance. Small Science, 2021, 1, 2000042.	9.9	9
7	Computational Identification of Transition-Metal Dichalcogenides for Electrochemical CO_2 Reduction to Highly Reduced Species Beyond CO and HCOOH. Journal of Physical Chemistry C, 2020, 124, 25812-25820.	3.1	9
8	Adatom Doping of Transition Metals in $ReSe_2$ Nanosheets for Enhanced Electrocatalytic Hydrogen Evolution Reaction. ACS Nano, 2020, 14, 12184-12194.	14.6	67
9	Fundamental Limit of the Emission Linewidths of Quantum Dots: An Ab Initio Study of CdSe Nanocrystals. ACS Applied Materials & Interfaces, 2020, 12, 22012-22018.	8.0	12
10	Training machine-learning potentials for crystal structure prediction using disordered structures. Physical Review B, 2020, 102, .	3.2	12
11	Two-Dimensional NbS_2 Gas Sensors for Selective and Reversible NO_2 Detection at Room Temperature. ACS Sensors, 2019, 4, 2395-2402.	7.8	101
12	Anion Extraction-Induced Polymorph Control of Transition Metal Dichalcogenides. Nano Letters, 2019, 19, 8644-8652.	9.1	12
13	Unveiling Electrochemical Reaction Pathways of CO_2 Reduction to C_N Species at S-Vacancies of MoS_2. ChemSusChem, 2019, 12, 2671-2678.	6.8	25
14	Hydrogen Evolution Reaction at Anion Vacancy of Two-Dimensional Transition-Metal Dichalcogenides: Ab Initio Computational Screening. Journal of Physical Chemistry Letters, 2018, 9, 2049-2055.	4.6	98
15	Role of Hyper-Reduced States in Hydrogen Evolution Reaction at Sulfur Vacancy in MoS_2. ACS Catalysis, 2018, 8, 4508-4515.	11.2	45
16	Directly Assembled 3D Molybdenum Disulfide on Silicon Wafer for Efficient Photoelectrochemical Water Reduction. Advanced Sustainable Systems, 2018, 2, 1700142.	5.3	36