

# Jaehoon Kim

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1724134/publications.pdf>

Version: 2024-02-01

23  
papers

3,908  
citations

623188

14  
h-index

676716

22  
g-index

23  
all docs

23  
docs citations

23  
times ranked

5845  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Software for the frontiers of quantum chemistry: An overview of developments in the Q-Chem 5 package. <i>Journal of Chemical Physics</i> , 2021, 155, 084801.   | 1.2  | 518       |
| 2  | Facile electrochemical synthesis of dilute AuCu alloy nanostructures for selective and long-term stable CO <sub>2</sub> electrolysis. <i>Journal of Chemical Physics</i> , 2020, 153, 054702.   | 1.2  | 2         |
| 3  | Active learning with non- <i>ab initio</i> input features toward efficient CO <sub>2</sub> reduction catalysts. <i>Chemical Science</i> , 2018, 9, 5152-5159.   | 3.7  | 82        |
| 4  | Morphology-controlled Au nanostructures for efficient and selective electrochemical CO <sub>2</sub> reduction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5119-5128.  | 5.2  | 59        |
| 5  | Enhanced catalytic activity for CO oxidation by the metal-oxide perimeter of TiO <sub>2</sub> /nanostructured Au inverse catalysts. <i>Nanoscale</i> , 2018, 10, 3911-3917.   | 2.8  | 22        |
| 6  | Origin of unusual spinel-to-layered phase transformation by crystal water. <i>Chemical Science</i> , 2018, 9, 433-438.  | 3.7  | 31        |
| 7  | Wafer-Scale Ultrathin, Single-Crystal Si and GaAs Photocathodes for Photoelectrochemical Hydrogen Production. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 33230-33237.  | 4.0  | 21        |
| 8  | Engraving High-Density Nanogaps in Gold Thin Films via Sequential Anodization and Reduction for Surface-Enhanced Raman Spectroscopy Applications. <i>Chemistry of Materials</i> , 2018, 30, 6183-6191.  | 3.2  | 12        |
| 9  | CO <sub>2</sub> Reduction: Nanoporous Au Thin Films on Si Photoelectrodes for Selective and Efficient Photoelectrochemical CO <sub>2</sub> Reduction ( <i>Adv. Energy Mater.</i> 3/2017). <i>Advanced Energy Materials</i> , 2017, 7, .               | 10.2 | 3         |
| 10 | Formation of Two-Dimensional Homologous Faults and Oxygen Electrocatalytic Activities in a Perovskite Nickelate. <i>Nano Letters</i> , 2017, 17, 3126-3132.   | 4.5  | 73        |
| 11 | Bottom-up synthesis of fully sp <sup>2</sup> hybridized three-dimensional microporous graphitic frameworks as metal-free catalysts. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12080-12085.   | 5.2  | 44        |
| 12 | Nanoporous Au Thin Films on Si Photoelectrodes for Selective and Efficient Photoelectrochemical CO <sub>2</sub> Reduction. <i>Advanced Energy Materials</i> , 2017, 7, 1601103.   | 10.2 | 141       |
| 13 | High efficiency n-Si/p-Cu <sub>2</sub> O core-shell nanowires photodiode prepared by atomic layer deposition of Cu <sub>2</sub> O on well-ordered Si nanowires array. <i>Electronic Materials Letters</i> , 2016, 12, 404-410.                        | 1.0  | 14        |
| 14 | A perspective on the density matrix purification for linear scaling electronic structure calculations. <i>International Journal of Quantum Chemistry</i> , 2016, 116, 563-568.  | 1.0  | 7         |
| 15 | Formation of GaP nanocones and micro-mesas by metal-assisted chemical etching. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 3402-3408.  | 1.3  | 11        |
| 16 | Modulating the magnetic behavior of Fe( <i>ii</i> )-MOF-74 by the high electron affinity of the guest molecule. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 16977-16982.   | 1.3  | 23        |
| 17 | Rational Design of Efficient Electrocatalysts for Hydrogen Evolution Reaction: Single Layers of WS <sub>2</sub> Nanoplates Anchored to Hollow Nitrogen-Doped Carbon Nanofibers. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 28116-28121. | 4.0  | 92        |
| 18 | Exploring the possibilities of two-dimensional transition metal carbides as anode materials for sodium batteries. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 5000-5005.   | 1.3  | 159       |

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|----|---|-----|-----------|
| 19 | Analytical Double-Hybrid Density Functional Based on the Polynomial Series Expansion of Adiabatic Connection: A Quadratic Approximation. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 45-54. | 2.3 | 22        |
| 20 | Advances in molecular quantum chemistry contained in the Q-Chem 4 program package. <i>Molecular Physics</i> , 2015, 113, 184-215.   | 0.8 | 2,561     |
| 21 | Reply to Comment on "On the optimal symmetric purification scheme of the one-particle density matrix". <i>Chemical Physics Letters</i> , 2012, 527, 86-88.  | 1.2 | 0         |
| 22 | Accelerated Purification Using Generalized Nonpurifying Intermediate Functions for Large-Scale Self-Consistent Field Calculations. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 3853-3858.    | 2.3 | 6         |
| 23 | On the optimal symmetric purification scheme of the one-particle density matrix. <i>Chemical Physics Letters</i> , 2011, 511, 159-160.  | 1.2 | 5         |