

# Byeong Cheul Moon

## List of Publications by Year in descending order

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Version: 2024-02-01

12  
papers

282  
citations

840776

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Collaborative Electrochemical Oxidation of the Alcohol and Aldehyde Groups of 5-Hydroxymethylfurfural by NiOOH and Cu(OH) <sub>2</sub> for Superior 2,5-Furandicarboxylic Acid Production. ACS Catalysis, 2022, 12, 4078-4091.	11.2	45
2	Encapsulation of redox polysulphides via chemical interaction with nitrogen atoms in the organic linkers of metal-organic framework nanocrystals. Scientific Reports, 2016, 6, 25555.	3.3	41
3	Ultrafine Metallic Nickel Domains and Reduced Molybdenum States Improve Oxygen Evolution Reaction of NiFeMo Electrocatalysts. Small, 2019, 15, e1804764.	10.0	35
4	Size-controlled CdSe quantum dots to boost light harvesting capability and stability of perovskite photovoltaic cells. Nanoscale, 2017, 9, 10075-10083.	5.6	24
5	Controlled Synthesis of Nanocrystalline Nb:SrTiO <sub>3</sub> Electron Transport Layers for Robust Interfaces and Stable High Photovoltaic Energy Conversion Efficiency in Perovskite Halide Solar Cells. ACS Applied Energy Materials, 2020, 3, 344-351.	5.1	24
6	Plasma-mediated fabrication of ultrathin NiAl nanosheets having rich oxygen vacancies and doped nitrogen sites and their utilization for high activity and robust stability in photoelectrochemical water oxidation. Journal of Materials Chemistry A, 2018, 6, 23283-23288.	10.3	23
7	Quadruple metal-based layered structure as the photocatalyst for conversion of carbon dioxide into a value added carbon monoxide with high selectivity and efficiency. Journal of Materials Chemistry A, 2017, 5, 8274-8279.	10.3	20
8	Triphasic Metal Oxide Photocatalyst for Reaction Site-Specific Production of Hydrogen Peroxide from Oxygen Reduction and Water Oxidation. Advanced Energy Materials, 2022, 12, .	19.5	17
9	Strain-Induced Metallization and Defect Suppression at Zipper-like Interdigitated Atomically Thin Interfaces Enabling High-Efficiency Halide Perovskite Solar Cells. ACS Nano, 2021, 15, 1805-1816.	14.6	15
10	Broadband Light Absorption and Efficient Charge Separation Using a Light Scattering Layer with Mixed Cavities for High-Performance Perovskite Photovoltaic Cells with Stability. Small, 2017, 13, 1700418.	10.0	13
11	Cobalt-Phosphate Catalysts with Reduced Bivalent Co-Ion States and Doped Nitrogen Atoms Playing as Active Sites for Facile Adsorption, Fast Charge Transfer, and Robust Stability in Photoelectrochemical Water Oxidation. ACS Applied Materials & Interfaces, 2019, 11, 44366-44374.	8.0	13
12	TiO <sub>2</sub> /halide perovskite interface: The impact of surface state passivation on energy alignment and photovoltaic performance of perovskite solar cells. Applied Surface Science, 2020, 512, 145666.	6.1	11