

# In Hye Kwak

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

27 papers	1,112 citations	17 h-index	29 g-index
29 ext. papers	1,471 ext. citations	10.5 avg, IF	4.6 L-index

#	Paper	IF	Citations
27	Concurrent Vacancy and Adatom Defects of MoNbSe Alloy Nanosheets Enhance Electrochemical Performance of Hydrogen Evolution Reaction. <i>ACS Nano</i> , <b>2021</b> , 15, 5467-5477	16.7	17
26	Chalcogen-vacancy group VI transition metal dichalcogenide nanosheets for electrochemical and photoelectrochemical hydrogen evolution. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 101-109	7.1	4
25	Anisotropic 2D SiAs for High-Performance UV-Visible Photodetectors. <i>Small</i> , <b>2021</b> , 17, e2006310	11	12
24	Phase-Transition MoVSe Alloy Nanosheets with Rich V-Se Vacancies and Their Enhanced Catalytic Performance of Hydrogen Evolution Reaction. <i>ACS Nano</i> , <b>2021</b> , 15, 14672-14682	16.7	7
23	Ruthenium Nanoparticles on Cobalt-Doped 1T'Phase MoS Nanosheets for Overall Water Splitting. <i>Small</i> , <b>2020</b> , 16, e2000081	11	41
22	Nickel sulfide nanocrystals for electrochemical and photoelectrochemical hydrogen generation. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 3240-3247	7.1	10
21	Se-Rich MoSe Nanosheets and Their Superior Electrocatalytic Performance for Hydrogen Evolution Reaction. <i>ACS Nano</i> , <b>2020</b> , 14, 6295-6304	16.7	55
20	Anisotropic alloying of Re1-xMoxS2 nanosheets to boost the electrochemical hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 25131-25141	13	7
19	Adatom Doping of Transition Metals in ReSe Nanosheets for Enhanced Electrocatalytic Hydrogen Evolution Reaction. <i>ACS Nano</i> , <b>2020</b> , 14, 12184-12194	16.7	21
18	Phase Evolution of ReMoSe Alloy Nanosheets and Their Enhanced Catalytic Activity toward Hydrogen Evolution Reaction. <i>ACS Nano</i> , <b>2020</b> , 14, 11995-12005	16.7	25
17	Two-dimensional MoS2@helamine hybrid nanostructures for enhanced catalytic hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 22571-22578	13	8
16	GaAsSe Ternary Alloy Nanowires for Enhanced Photoconductivity. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 3908-3915	3.8	2
15	Nickel phosphide polymorphs with an active (001) surface as excellent catalysts for water splitting. <i>CrystEngComm</i> , <b>2019</b> , 21, 1143-1149	3.3	11
14	Two dimensional MoS meets porphyrins via intercalation to enhance the electrocatalytic activity toward hydrogen evolution. <i>Nanoscale</i> , <b>2019</b> , 11, 3780-3785	7.7	12
13	Intercalated complexes of 1T'-MoS2 nanosheets with alkylated phenylenediamines as excellent catalysts for electrochemical hydrogen evolution. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 2334-2343	13	21
12	Thickness-dependent bandgap and electrical properties of GeP nanosheets. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 16526-16532	13	28
11	Intercalation of cobaltocene into WS2 nanosheets for enhanced catalytic hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 8101-8106	13	18

10	Two-dimensional MoS/Fe-phthalocyanine hybrid nanostructures as excellent electrocatalysts for hydrogen evolution and oxygen reduction reactions. <i>Nanoscale</i> , <b>2019</b> , 11, 14266-14275	7.7	20
9	Selective electrochemical reduction of carbon dioxide to formic acid using indium–zinc bimetallic nanocrystals. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 22879-22883	13	25
8	Stable methylammonium-intercalated 1T'-MoS <sub>2</sub> for efficient electrocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 5613-5617	13	27
7	Nitrogen-rich 1T'-MoS layered nanostructures using alkyl amines for high catalytic performance toward hydrogen evolution. <i>Nanoscale</i> , <b>2018</b> , 10, 14726-14735	7.7	29
6	Two-Dimensional WS@Nitrogen-Doped Graphite for High-Performance Lithium Ion Batteries: Experiments and Molecular Dynamics Simulations. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 37928-37936	9.5	18
5	Orthorhombic NiSe Nanocrystals on Si Nanowires for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 33198-33204	9.5	29
4	Intercalation of aromatic amine for the 2H-1T' phase transition of MoS by experiments and calculations. <i>Nanoscale</i> , <b>2018</b> , 10, 11349-11356	7.7	41
3	FeP and FeP <sub>2</sub> nanowires for efficient electrocatalytic hydrogen evolution reaction. <i>Chemical Communications</i> , <b>2016</b> , 52, 2819-22	5.8	208
2	CoSe <sub>2</sub> and NiSe <sub>2</sub> Nanocrystals as Superior Bifunctional Catalysts for Electrochemical and Photoelectrochemical Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 5327-34	9.5	334
1	Transition-Metal Doping of Oxide Nanocrystals for Enhanced Catalytic Oxygen Evolution. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 1921-1927	3.8	80