In Hye Kwak

List of Publications by Citations

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	CoSe and NiSe Nanocrystals as Superior Bifunctional Catalysts for Electrochemical and Photoelectrochemical Water Splitting. *ACS Applied Materials & Interfaces*, **2016**, 8, 5327-34	9.5	334
26	FeP and FeP2 nanowires for efficient electrocatalytic hydrogen evolution reaction. *Chemical Communications*, **2016**, 52, 2819-22	5.8	208
25	Transition-Metal Doping of Oxide Nanocrystals for Enhanced Catalytic Oxygen Evolution. *Journal of Physical Chemistry C*, **2015**, 119, 1921-1927	3.8	80
24	Se-Rich MoSe Nanosheets and Their Superior Electrocatalytic Performance for Hydrogen Evolution Reaction. *ACS Nano*, **2020**, 14, 6295-6304	16.7	55
23	Ruthenium Nanoparticles on Cobalt-Doped 1TPhase MoS Nanosheets for Overall Water Splitting. *Small*, **2020**, 16, e2000081	11	41
22	Intercalation of aromatic amine for the 2H-1Tphase transition of MoS by experiments and calculations. *Nanoscale*, **2018**, 10, 11349-11356	7.7	41
21	Nitrogen-rich 1TMoS layered nanostructures using alkyl amines for high catalytic performance toward hydrogen evolution. *Nanoscale*, **2018**, 10, 14726-14735	7.7	29
20	Orthorhombic NiSe Nanocrystals on Si Nanowires for Efficient Photoelectrochemical Water Splitting. *ACS Applied Materials & Interfaces*, **2018**, 10, 33198-33204	9.5	29
19	Thickness-dependent bandgap and electrical properties of GeP nanosheets. *Journal of Materials Chemistry A*, **2019**, 7, 16526-16532	13	28
18	Stable methylammonium-intercalated 1T?-MoS2 for efficient electrocatalytic hydrogen evolution. *Journal of Materials Chemistry A*, **2018**, 6, 5613-5617	13	27
17	Phase Evolution of ReMoSe Alloy Nanosheets and Their Enhanced Catalytic Activity toward Hydrogen Evolution Reaction. *ACS Nano*, **2020**, 14, 11995-12005	16.7	25
16	Selective electrochemical reduction of carbon dioxide to formic acid using indiumzinc bimetallic nanocrystals. *Journal of Materials Chemistry A*, **2019**, 7, 22879-22883	13	25
15	Intercalated complexes of 1T?-MoS2 nanosheets with alkylated phenylenediamines as excellent catalysts for electrochemical hydrogen evolution. *Journal of Materials Chemistry A*, **2019**, 7, 2334-2343	13	21
14	Adatom Doping of Transition Metals in ReSe Nanosheets for Enhanced Electrocatalytic Hydrogen Evolution Reaction. *ACS Nano*, **2020**, 14, 12184-12194	16.7	21
13	Two-dimensional MoS/Fe-phthalocyanine hybrid nanostructures as excellent electrocatalysts for hydrogen evolution and oxygen reduction reactions. *Nanoscale*, **2019**, 11, 14266-14275	7.7	20
12	Intercalation of cobaltocene into WS2 nanosheets for enhanced catalytic hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2019**, 7, 8101-8106	13	18
11	Two-Dimensional WS@Nitrogen-Doped Graphite for High-Performance Lithium Ion Batteries: Experiments and Molecular Dynamics Simulations. *ACS Applied Materials & Interfaces*, **2018**, 10, 37928-37936	9.5	18

List of Publications

10	Concurrent Vacancy and Adatom Defects of MoNbSe Alloy Nanosheets Enhance Electrochemical Performance of Hydrogen Evolution Reaction. *ACS Nano*, **2021**, 15, 5467-5477	16.7	17
9	Two dimensional MoS meets porphyrins via intercalation to enhance the electrocatalytic activity toward hydrogen evolution. *Nanoscale*, **2019**, 11, 3780-3785	7.7	12
8	Anisotropic 2D SiAs for High-Performance UV-Visible Photodetectors. *Small*, **2021**, 17, e2006310	11	12
7	Nickel phosphide polymorphs with an active (001) surface as excellent catalysts for water splitting. *CrystEngComm*, **2019**, 21, 1143-1149	3.3	11
6	Nickel sulfide nanocrystals for electrochemical and photoelectrochemical hydrogen generation. *Journal of Materials Chemistry C*, **2020**, 8, 3240-3247	7.1	10
5	Two-dimensional MoS2–melamine hybrid nanostructures for enhanced catalytic hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2019**, 7, 22571-22578	13	8
4	Anisotropic alloying of Re1−xMoxS2 nanosheets to boost the electrochemical hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2020**, 8, 25131-25141	13	7
3	Phase-Transition MoVSe Alloy Nanosheets with Rich V-Se Vacancies and Their Enhanced Catalytic Performance of Hydrogen Evolution Reaction. *ACS Nano*, **2021**, 15, 14672-14682	16.7	7
2	Chalcogen-vacancy group VI transition metal dichalcogenide nanosheets for electrochemical and photoelectrochemical hydrogen evolution. *Journal of Materials Chemistry C*, **2021**, 9, 101-109	7.1	4
1	GaAsSe Ternary Alloy Nanowires for Enhanced Photoconductivity. *Journal of Physical Chemistry C*, **2019**, 123, 3908-3915	3.8	2