

Byeongyoon Kim

List of Publications by Year in descending order

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33
times ranked

4254
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical Fields: Directing Atom Migration in the Multiphase Nanocrystal. <i>Accounts of Chemical Research</i> , 2022, 55, 1015-1024.	7.6	3
2	Multimetallic nanostructures for electrocatalytic oxygen evolution reaction in acidic media. <i>Materials Chemistry Frontiers</i> , 2021, 5, 4445-4473.	3.2	14
3	Transition metal dichalcogenide-decorated MXenes: promising hybrid electrodes for energy storage and conversion applications. <i>Materials Chemistry Frontiers</i> , 2021, 5, 3298-3321.	3.2	66
4	Vertical-crystalline Fe-doped $\text{I}^2\text{-Ni}$ oxyhydroxides for highly active and stable oxygen evolution reaction. <i>Matter</i> , 2021, 4, 3585-3604.	5.0	34
5	Recent Advances in Transition Metal Phosphide Electrocatalysts for Water Splitting under Neutral pH Conditions. <i>ChemElectroChem</i> , 2020, 7, 3578-3589.	1.7	63
6	Highly Crystalline Hollow Toroidal Copper Phosphosulfide <i>via</i> Anion Exchange: A Versatile Cation Exchange Nanoplatfrom. <i>ACS Nano</i> , 2020, 14, 11205-11214.	7.3	24
7	Gold Nanotetrapods with Unique Topological Structure and Ultranarrow Plasmonic Band as Multifunctional Therapeutic Agents. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4505-4510.	2.1	30
8	Pt-Cu based nanocrystals as promising catalysts for various electrocatalytic reactions. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17183-17203.	5.2	48
9	Water Splitting: Topotactic Transformations in an Icosahedral Nanocrystal to Form Efficient Water-Splitting Catalysts (<i>Adv. Mater.</i> 1/2019). <i>Advanced Materials</i> , 2019, 31, 1970002.	11.1	2
10	Topotactic Transformations in an Icosahedral Nanocrystal to Form Efficient Water-Splitting Catalysts. <i>Advanced Materials</i> , 2019, 31, e1805546.	11.1	76
11	NiOOH Exfoliation-Free Nickel Octahedra as Highly Active and Durable Electrocatalysts Toward the Oxygen Evolution Reaction in an Alkaline Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10115-10122.	4.0	68
12	Ni@Ru and NiCo@Ru Core-Shell Hexagonal Nanosandwiches with a Compositionally Tunable Core and a Regioselectively Grown Shell. <i>Small</i> , 2018, 14, 1702353.	5.2	50
13	Nitrosoreductase-Like Nanocatalyst for Ultrasensitive and Stable Biosensing. <i>Analytical Chemistry</i> , 2018, 90, 807-813.	3.2	25
14	Ferric phosphide carbon nanocomposites emerging as highly active electrocatalysts for the hydrogen evolution reaction. <i>Dalton Transactions</i> , 2018, 47, 16011-16018.	1.6	12
15	Recent advances in electrocatalysts toward the oxygen reduction reaction: the case of PtNi octahedra. <i>Nanoscale</i> , 2018, 10, 20073-20088.	2.8	60
16	Highly Crystalline $\text{Pd}_{13}\text{Cu}_3\text{S}_7$ Nanoplates Prepared via Partial Cation Exchange of $\text{Cu}_{1.81}\text{S}$ Templates as an Efficient Electrocatalyst for the Hydrogen Evolution Reaction. <i>Chemistry of Materials</i> , 2018, 30, 6884-6892.	3.2	36
17	An IrRu alloy nanocactus on $\text{Cu}_2\text{S}@\text{IrS}_y$ as a highly efficient bifunctional electrocatalyst toward overall water splitting in acidic electrolytes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16130-16138.	5.2	58
18	Hollow nanoparticles as emerging electrocatalysts for renewable energy conversion reactions. <i>Chemical Society Reviews</i> , 2018, 47, 8173-8202.	18.7	222

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19	Nanodendrites of platinum-group metals for electrocatalytic applications. Nano Research, 2018, 11, 6111-6140.	5.8	54
20	Cactus-Like Hollow Cu ₂ S@Ru Nanoplates as Excellent and Robust Electrocatalysts for the Alkaline Hydrogen Evolution Reaction. Small, 2017, 13, 1700052.	5.2	86
21	Nanostructured materials on 3D nickel foam as electrocatalysts for water splitting. Nanoscale, 2017, 9, 12231-12247.	2.8	403
22	MXene: an emerging two-dimensional material for future energy conversion and storage applications. Journal of Materials Chemistry A, 2017, 5, 24564-24579.	5.2	450
23	Rational design of Pt-Ni-Co ternary alloy nanoframe crystals as highly efficient catalysts toward the alkaline hydrogen evolution reaction. Nanoscale, 2016, 8, 16379-16386.	2.8	128
24	Facet-controlled hollow Rh ₂ S ₃ hexagonal nanoprisms as highly active and structurally robust catalysts toward hydrogen evolution reaction. Energy and Environmental Science, 2016, 9, 850-856.	15.6	118
25	Synergistic Effect of Detection and Separation for Pathogen Using Magnetic Clusters. Bioconjugate Chemistry, 2016, 27, 59-65.	1.8	21
26	Skeletal Octahedral Nanoframe with Cartesian Coordinates <i>via</i> Geometrically Precise Nanoscale Phase Segregation in a Pt@Ni Core-Shell Nanocrystal. ACS Nano, 2015, 9, 2856-2867.	7.3	176
27	Large-scale one pot synthesis of metal oxide nanoparticles by decomposition of metal carbonates or nitrates. CrystEngComm, 2015, 17, 4977-4981.	1.3	7
28	Colourimetric redox-polyaniline nanoindicator for in situ vesicular trafficking of intracellular transport. Nano Research, 2015, 8, 1169-1179.	5.8	8
29	High yield synthesis of catalytically active five-fold twinned Pt nanorods from a surfactant-ligated precursor. Chemical Communications, 2013, 49, 573-575.	2.2	35
30	A Highly Crystalline Manganese-Doped Iron Oxide Nanocontainer with Predesigned Void Volume and Shape for Theranostic Applications. Advanced Materials, 2013, 25, 3202-3208.	11.1	31
31	Axially twinned nanodumbbell with a Pt bar and two Rh@Pt balls designed for high catalytic activity. Nanoscale, 2013, 5, 5738.	2.8	25
32	Vertical Alignment of Fe-Doped γ -Ni Oxyhydroxides for Highly Active and Stable Oxygen Evolution Reaction. SSRN Electronic Journal, 0, , .	0.4	0