

Tae Hyung Lee

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.

69
papers

1,360
citations

22
h-index

34
g-index

74
ext. papers

1,891
ext. citations

8.1
avg, IF

5.05
L-index

#	Paper	IF	Citations
69	Visible Light Driven Ultrasensitive and Selective NO Detection in Tin Oxide Nanoparticles with Sulfur Doping Assisted by L-Cysteine.. <i>Small</i> , 2022 , e2106613	11	2
68	Surface-Tailored Medium Entropy Alloys as Radically Low Overpotential Oxygen Evolution Electrocatalysts.. <i>Small</i> , 2022 , e2105611	11	6
67	Architecture engineering of nanostructured catalyst via layer-by-layer adornment of multiple nanocatalysts on silica nanorod arrays for hydrogenation of nitroarenes.. <i>Scientific Reports</i> , 2022 , 12, 2	4.9	1
66	Controlled Band Offsets in Ultrathin Hematite for Enhancing the Photoelectrochemical Water Splitting Performance of Heterostructured Photoanodes.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	2
65	Crystal Facet Engineering of TiO Nanostructures for Enhancing Photoelectrochemical Water Splitting with BiVO Nanodots.. <i>Nano-Micro Letters</i> , 2022 , 14, 48	19.5	2
64	High Hole Mobility Inorganic Halide Perovskite Field-Effect Transistors with Enhanced Phase Stability and Interfacial Defect Tolerance. <i>Advanced Electronic Materials</i> , 2022 , 8, 2100624	6.4	2
63	Bi catalysts supported on GaN nanowires toward efficient photoelectrochemical CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 7869-7877	13	3
62	Chemical modification of ordered/disordered carbon nanostructures for metal hosts and electrocatalysts of lithium-air batteries. <i>Informa Mater</i> , 2022 , 4,	23.1	1
61	Rationally Designed TiO Nanostructures of Continuous Pore Network for Fast-Responding and Highly Sensitive Acetone Sensor.. <i>Small Methods</i> , 2021 , 5, e2100941	12.8	3
60	Boosting Unassisted Alkaline Solar Water Splitting Using Silicon Photocathode with TiO ₂ Nanorods Decorated by Edge-Rich MoS ₂ Nanoplates (Small 39/2021). <i>Small</i> , 2021 , 17, 2170206	11	
59	Direct Synthesis of Molybdenum Phosphide Nanorods on Silicon Using Graphene at the Heterointerface for Efficient Photoelectrochemical Water Reduction. <i>Nano-Micro Letters</i> , 2021 , 13, 81	19.5	6
58	Edge-exposed WS ₂ on 1D nanostructures for highly selective NO ₂ sensor at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2021 , 333, 129566	8.5	8
57	Microscopic evidence of strong interactions between chemical vapor deposited 2D MoS film and SiO growth template. <i>Nano Convergence</i> , 2021 , 8, 11	9.2	8
56	Surface-tailored graphene channels. <i>Npj 2D Materials and Applications</i> , 2021 , 5,	8.8	3
55	Enhanced Optical Properties and Stability of CsPbBr ₃ Nanocrystals Through Nickel Doping. <i>Advanced Functional Materials</i> , 2021 , 31, 2102770	15.6	20
54	Core-shell architecture of NiSe ₂ nanoparticles@nitrogen-doped carbon for hydrogen evolution reaction in acidic and alkaline media. <i>International Journal of Energy Research</i> , 2021 , 45, 20463	4.5	4
53	Grain Boundaries Boost Oxygen Evolution Reaction in NiFe Electrocatalysts.. <i>Small Methods</i> , 2021 , 5, e2000755	12.8	7

52	Tailored Graphene Micropatterns by Wafer-Scale Direct Transfer for Flexible Chemical Sensor Platform. <i>Advanced Materials</i> , 2021 , 33, e2004827	24	20
51	Suppression of metal-to-insulator transition using strong interfacial coupling at cubic and orthorhombic perovskite oxide heterointerfaces. <i>Nanoscale</i> , 2021 , 13, 708-715	7.7	
50	Synthesis of MoS _x /Ni-metal-organic framework-74 composites as efficient electrocatalysts for hydrogen evolution reactions. <i>International Journal of Energy Research</i> , 2021 , 45, 9638-9647	4.5	10
49	Substantially improved room temperature NO ₂ sensing in 2-dimensional SnS ₂ nanoflowers enabled by visible light illumination. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 11168-11178	13	24
48	Boosting Unassisted Alkaline Solar Water Splitting Using Silicon Photocathode with TiO Nanorods Decorated by Edge-Rich MoS Nanoplates. <i>Small</i> , 2021 , 17, e2103457	11	8
47	Voltage-dependent gas discrimination using self-activated graphene with Pt decoration. <i>Sensors and Actuators B: Chemical</i> , 2021 , 349, 130696	8.5	1
46	All-Solution-Processed BiVO ₄ /TiO ₂ Photoanode with NiCo ₂ O ₄ Nanofiber Cocatalyst for Enhanced Solar Water Oxidation. <i>ACS Applied Energy Materials</i> , 2020 , 3, 5646-5656	6.1	11
45	Electrochemical activity of Samarium on starch-derived porous carbon: rechargeable Li- and Al-ion batteries. <i>Nano Convergence</i> , 2020 , 7, 11	9.2	11
44	Manufacturing ZrB-SiC-TaC Composite: Potential Application for Aircraft Wing Assessed by Frequency Analysis through Finite Element Model. <i>Materials</i> , 2020 , 13,	3.5	10
43	Boosting Aerobic Oxidation of Alcohols via Synergistic Effect between TEMPO and a Composite FeO/Cu-BDC/GO Nanocatalyst. <i>ACS Omega</i> , 2020 , 5, 5182-5191	3.9	33
42	Influence of C ₃ N ₄ Precursors on Photoelectrochemical Behavior of TiO ₂ /C ₃ N ₄ Photoanode for Solar Water Oxidation. <i>Energies</i> , 2020 , 13, 974	3.1	9
41	Stabilization of FCC Phase Using Mn Incorporation in Nanograin Invar Alloy Foils Fabricated by Electroforming. <i>Electronic Materials Letters</i> , 2020 , 16, 188-194	2.9	1
40	Regulating the Catalytic Dynamics Through a Crystal Structure Modulation of Bimetallic Catalyst. <i>Advanced Energy Materials</i> , 2020 , 10, 1903225	21.8	10
39	Rendering Redox Reactions of Cathodes in Li-Ion Capacitors Enabled by Lanthanides. <i>ACS Omega</i> , 2020 , 5, 1634-1639	3.9	6
38	Understanding the Enhancement of the Catalytic Properties of Goethite by Transition Metal Doping: Critical Role of O* Formation Energy Relative to OH* and OOH*. <i>ACS Applied Energy Materials</i> , 2020 , 3, 1634-1643	6.1	9
37	Enhanced Oxygen Evolution Electrocatalysis in Strained A-Site Cation Deficient LaNiO Perovskite Thin Films. <i>Nano Letters</i> , 2020 , 20, 8040-8045	11.5	30
36	Stabilization of NiFe Layered Double Hydroxides on n-Si by an Activated TiO ₂ Interlayer for Efficient Solar Water Oxidation. <i>ACS Applied Energy Materials</i> , 2020 , 3, 12298-12307	6.1	6
35	Direct synthesis of two-dimensional MoS ₂ on p-type Si and application to solar hydrogen production. <i>NPG Asia Materials</i> , 2019 , 11,	10.3	37

34	Two-dimensional boron nitride as a sulfur fixer for high performance rechargeable aluminum-sulfur batteries. <i>Scientific Reports</i> , 2019 , 9, 13573	4.9	29
33	S@GO as a High-Performance Cathode Material for Rechargeable Aluminum-Ion Batteries. <i>Electronic Materials Letters</i> , 2019 , 15, 720-726	2.9	18
32	Coordinating gallium hexacyanocobaltate: Prussian blue-based nanomaterial for Li-ion storage.. <i>RSC Advances</i> , 2019 , 9, 26668-26675	3.7	23
31	Metal-organic framework-derived metal oxide nanoparticles@reduced graphene oxide composites as cathode materials for rechargeable aluminium-ion batteries. <i>Scientific Reports</i> , 2019 , 9, 13739	4.9	21
30	Properties of CoS ₂ /CNT as a Cathode Material of Rechargeable Aluminum-Ion Batteries. <i>Electronic Materials Letters</i> , 2019 , 15, 727-732	2.9	21
29	Graphite carbon-encapsulated metal nanoparticles derived from Prussian blue analogs growing on natural loofa as cathode materials for rechargeable aluminum-ion batteries. <i>Scientific Reports</i> , 2019 , 9, 13665	4.9	18
28	Au decoration of a graphene microchannel for self-activated chemoresistive flexible gas sensors with substantially enhanced response to hydrogen. <i>Nanoscale</i> , 2019 , 11, 2966-2973	7.7	38
27	A Hybrid Energy Storage Mechanism of Zinc Hexacyanocobaltate-Based Metal-Organic Framework Endowing Stationary and High-Performance Lithium-Ion Storage. <i>Electronic Materials Letters</i> , 2019 , 15, 444-453	2.9	24
26	All-Solution-Processed WO ₃ /BiVO ₄ Core-Shell Nanorod Arrays for Highly Stable Photoanodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20004-20012	9.5	37
25	Tailoring of Interfacial Band Offsets by an Atomically Thin Polar Insulating Layer To Enhance the Water-Splitting Performance of Oxide Heterojunction Photoanodes. <i>Nano Letters</i> , 2019 , 19, 5897-5903	11.5	17
24	Enhancement of Ferroelectric Properties of Superlattice-Based Epitaxial BiFeO ₃ Thin Films via Substitutional Doping Effect. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 11564-11571	3.8	2
23	Pd- and Au-Decorated MoS ₂ Gas Sensors for Enhanced Selectivity. <i>Electronic Materials Letters</i> , 2019 , 15, 368-376	2.9	22
22	Daylight-Induced Metal-Insulator Transition in Ag-Decorated Vanadium Dioxide Nanorod Arrays. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 11568-11578	9.5	6
21	Copper oxide-graphene oxide nanocomposite: efficient catalyst for hydrogenation of nitroaromatics in water. <i>Nano Convergence</i> , 2019 , 6, 6	9.2	59
20	CdSe Quantum Dots Doped WS ₂ Nanoflowers for Enhanced Solar Hydrogen Production. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1800853	1.6	12
19	SnS Nanograins on Porous SiO ₂ Nanorods Template for Highly Sensitive NO Sensor at Room Temperature with Excellent Recovery. <i>ACS Sensors</i> , 2019 , 4, 678-686	9.2	47
18	Realization of Lithium-Ion Capacitors with Enhanced Energy Density via the Use of Gadolinium Hexacyanocobaltate as a Cathode Material. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 31799-31805	8.5	23
17	Water Splitting Exceeding 17% Solar-to-Hydrogen Conversion Efficiency Using Solution-Processed Ni-Based Electrocatalysts and Perovskite/Si Tandem Solar Cell. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 33835-33843	9.5	39

16	Fabrication of a WS/p-Si Heterostructure Photocathode Using Direct Hybrid Thermolysis. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 29910-29916	9.5	23
15	Perspectives and challenges in multilayer ceramic capacitors for next generation electronics. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 9782-9802	7.1	68
14	Layered metal-organic framework based on tetracyanonickelate as a cathode material for Li-ion storage.. <i>RSC Advances</i> , 2019 , 9, 21363-21370	3.7	23
13	Tailorable Topologies for Selectively Controlling Crystals of Expanded Prussian Blue Analogues. <i>Crystal Growth and Design</i> , 2019 , 19, 7385-7395	3.5	14
12	Cerium Hexacyanocobaltate: A Lanthanide-Compliant Prussian Blue Analogue for Li-Ion Storage. <i>ACS Omega</i> , 2019 , 4, 21410-21416	3.9	19
11	Ni ₃ Se ₄ @MoSe ₂ Composites for Hydrogen Evolution Reaction. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5035	2.6	18
10	Facile synthesis of monodispersed Pd nanocatalysts decorated on graphene oxide for reduction of nitroaromatics in aqueous solution. <i>Research on Chemical Intermediates</i> , 2019 , 45, 599-611	2.8	57
9	Facile synthesis of CsPbBr/PbSe composite clusters. <i>Science and Technology of Advanced Materials</i> , 2018 , 19, 10-17	7.1	19
8	Magnetically retrievable nanocomposite adorned with Pd nanocatalysts: efficient reduction of nitroaromatics in aqueous media. <i>Green Chemistry</i> , 2018 , 20, 3809-3817	10	119
7	Direct Observation of Surface Potential Distribution in Insulation Resistance Degraded Acceptor-Doped BaTiO ₃ Multilayered Ceramic Capacitors. <i>Electronic Materials Letters</i> , 2018 , 14, 629-635 ^{2,9}		9
6	Tungsten Trioxide Doped with CdSe Quantum Dots for Smart Windows. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43785-43791	9.5	11
5	MoSe ₂ /GO/rGO Composite Catalyst for Hydrogen Evolution Reaction. <i>Polymers</i> , 2018 , 10,	4.5	20
4	Comprehensive Study on the Morphology Control of TiO ₂ Nanorods on Foreign Substrates by the Hydrothermal Method. <i>Crystal Growth and Design</i> , 2018 , 18, 6504-6512	3.5	14
3	Tailoring Crystallographic Orientations to Substantially Enhance Charge Separation Efficiency in Anisotropic BiVO ₄ Photoanodes. <i>ACS Catalysis</i> , 2018 , 8, 5952-5962	13.1	59
2	Tailored NiO _x /Ni Cocatalysts on Silicon for Highly Efficient Water Splitting Photoanodes via Pulsed Electrodeposition. <i>ACS Catalysis</i> , 2018 , 8, 7261-7269	13.1	54
1	Black Phosphorus: Critical Review and Potential for Water Splitting Photocatalyst. <i>Nanomaterials</i> , 2016 , 6,	5.4	60