

Joong Hee Lee

List of Publications by Year in descending order

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75
papers

4,662
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66315

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67
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all docs

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docs citations

76
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Hierarchical Ni ₂ Mo ₂ S and Ni ₂ Fe ₂ S Nanosheets with Ultrahigh Energy Density for Flexible All Solid-State Supercapacitors. <i>Advanced Functional Materials</i> , 2018, 28, 1803287.	7.8	223
2	Flexible Solid-State Asymmetric Supercapacitors Based on Nitrogen-Doped Graphene Encapsulated Ternary Metal-Nitrides with Ultralong Cycle Life. <i>Advanced Functional Materials</i> , 2018, 28, 1804663.	7.8	212
3	Simultaneous reduction, functionalization and stitching of graphene oxide with ethylenediamine for composites application. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1349-1358.	5.2	204
4	Rational Design of Core@shell Structured CoS ₂ @Cu ₂ MoS ₄ Hybridized MoS ₂ /N,S-Codoped Graphene as Advanced Electrocatalyst for Water Splitting and Zn-Air Battery. <i>Advanced Energy Materials</i> , 2020, 10, 1903289.	10.2	179
5	Alkaline Water Splitting Enhancement by MOF-Derived Fe-Co-Oxide/Co@NC@mNS Heterostructure: Boosting OER and HER through Defect Engineering and In Situ Oxidation. <i>Small</i> , 2021, 17, e2101312.	5.2	166
6	All ternary metal selenide nanostructures for high energy flexible charge storage devices. <i>Nano Energy</i> , 2019, 65, 103999.	8.2	152
7	Boosting the Energy Density of Flexible Solid-State Supercapacitors via Both Ternary NiV ₂ Se ₄ and NiFe ₂ Se ₄ Nanosheet Arrays. <i>Chemistry of Materials</i> , 2019, 31, 4490-4504.	3.2	138
8	Recent advances in two-dimensional transition metal dichalcogenides-graphene heterostructured materials for electrochemical applications. <i>Progress in Materials Science</i> , 2018, 96, 51-85.	16.0	132
9	Hierarchical design of Cu _{1-x} Ni _x S nanosheets for high-performance asymmetric solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19760-19772.	5.2	116
10	Hierarchical 3D Zn-Ni-P nanosheet arrays as an advanced electrode for high-performance all-solid-state asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8669-8681.	5.2	116
11	Single-Atom Co-Decorated MoS ₂ Nanosheets Assembled on Metal Nitride Nanorod Arrays as an Efficient Bifunctional Electrocatalyst for pH-Universal Water Splitting. <i>Advanced Functional Materials</i> , 2021, 31, 2100233.	7.8	108
12	Pt nanodots monolayer modified mesoporous Cu@Cu ₂ O nanowires for improved overall water splitting reactivity. <i>Nano Energy</i> , 2019, 59, 216-228.	8.2	107
13	Molybdenum and Phosphorous Dual Doping in Cobalt Monolayer Interfacial Assembled Cobalt Nanowires for Efficient Overall Water Splitting. <i>Advanced Functional Materials</i> , 2020, 30, 2002533.	7.8	107
14	Hierarchically porous nickel-cobalt phosphide nanoneedle arrays loaded micro-carbon spheres as an advanced electrocatalyst for overall water splitting application. <i>Applied Catalysis B: Environmental</i> , 2019, 253, 235-245.	10.8	105
15	Hybridized bimetallic phosphides of Ni-Mo, Co-Mo, and Co-Ni in a single ultrathin-3D-nanosheets for efficient HER and OER in alkaline media. <i>Composites Part B: Engineering</i> , 2022, 239, 109992.	5.9	96
16	Synthesis and characterization of polyaniline-multiwalled carbon nanotube nanocomposites in the presence of sodium dodecyl sulfate. <i>Polymers for Advanced Technologies</i> , 2008, 19, 1754-1762.	1.6	89
17	Novel core-shell CuMo-oxynitride@N-doped graphene nanohybrid as multifunctional catalysts for rechargeable zinc-air batteries and water splitting. <i>Nano Energy</i> , 2021, 85, 105987.	8.2	89
18	Fe and P Doped 1T-Phase Enriched WS ₂ -Dendritic Nanostructures for Efficient Overall Water Splitting. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119897.	10.8	88

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19	Hierarchical three-dimensional framework interface assembled from oxygen-doped cobalt phosphide layer-shelled metal nanowires for efficient electrocatalytic water splitting. <i>Applied Catalysis B: Environmental</i> , 2020, 261, 118268.	10.8	87
20	Uniformly Controlled Treble Boundary Using Enriched Adsorption Sites and Accelerated Catalyst Cathode for Robust Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	87
21	Highly reversible water splitting cell building from hierarchical 3D nickel manganese oxyphosphide nanosheets. <i>Nano Energy</i> , 2020, 69, 104432.	8.2	74
22	3D nickel molybdenum oxyselenide (Ni _{1-x} Mo _x OSe) nanoarchitectures as advanced multifunctional catalyst for Zn-air batteries and water splitting. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119909.	10.8	72
23	Ruthenium single atoms implanted continuous MoS ₂ -Mo ₂ C heterostructure for high-performance and stable water splitting. <i>Nano Energy</i> , 2021, 88, 106277.	8.2	68
24	Porous Hollow-Structured LaNiO ₃ Stabilized N-Codoped Graphene as an Active Electrocatalyst for Oxygen Reduction Reaction. <i>Small</i> , 2017, 13, 1701884.	5.2	66
25	Metal-Organic Framework-Derived Fe/Co-based Bifunctional Electrode for H ₂ Production through Water and Urea Electrolysis. <i>ChemSusChem</i> , 2019, 12, 4810-4823.	3.6	64
26	Synergy effect of hybrid fillers on the positive temperature coefficient behavior of polypropylene/ultra-high molecular weight polyethylene composites. <i>Journal of Applied Polymer Science</i> , 2010, 116, 116-124.	1.3	63
27	Dual-coupling ultrasmall iron-Ni ₂ P into P-doped porous carbon sheets assembled Cu _x S nanobrush arrays for overall water splitting. <i>Nano Energy</i> , 2021, 84, 105861.	8.2	62
28	Hierarchical 3D Oxygenated Cobalt Vanadium Selenide Nanosheets as Advanced Electrode for Flexible Zinc-Cobalt and Zinc-Air Batteries. <i>Small</i> , 2020, 16, e2004661.	5.2	54
29	High-performance solid-state hybrid supercapacitor enabled by metal-organic framework-derived multi-component hybrid electrodes of Co-N-C nanofibers and Co ₂ x/Fe _x -N-C micropillars. <i>Journal of Materials Chemistry A</i> , 2020, 8, 26158-26174.	5.2	53
30	Hierarchical 3D Oxygenated Cobalt Molybdenum Selenide Nanosheets as Robust Trifunctional Catalyst for Water Splitting and Zinc-Air Batteries. <i>Small</i> , 2020, 16, e2000797.	5.2	52
31	Protic ionic liquid-functionalized mesoporous silica-based hybrid membranes for proton exchange membrane fuel cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 24366.	6.7	51
32	Preparation of nanosize polyaniline by solid-state polymerization and determination of crystal structure. <i>Polymer International</i> , 2009, 58, 1173-1180.	1.6	50
33	A Flexible and Transparent Zinc-Nanofiber Network Electrode for Wearable Electrochromic, Rechargeable Zn-Ion Battery. <i>Small</i> , 2022, 18, e2104462.	5.2	50
34	Zn-Ni ₇ S ₆ Nanosheet Arrays Wrapped with Nanopetals of Ni(OH) ₂ as a Novel Core-Shell Electrode Material for Asymmetric Supercapacitors with High Energy Density and Cycling Stability Performance. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 47377-47388.	4.0	49
35	Atomic Heterointerface Engineering of Ni ₂ -NiSe ₂ Nanosheets Coupled Zn-Based Arrays for High-Efficiency Solar-Assisted Water Splitting. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	49
36	Hierarchical Flowerlike Highly Synergistic Three-Dimensional Iron Tungsten Oxide Nanostructure-Anchored Nitrogen-Doped Graphene as an Efficient and Durable Electrocatalyst for Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32220-32232.	4.0	48

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37	A 3D hierarchical network derived from 2D Fe-doped NiSe nanosheets/carbon nanotubes with enhanced OER performance for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3102-3111.	5.2	48
38	Investigation of multi-walled carbon nanotube-reinforced high-density polyethylene/carbon black nanocomposites using electrical, DSC and positron lifetime spectroscopy techniques. <i>Polymer International</i> , 2009, 58, 775-780.	1.6	47
39	Highly Effective Freshwater and Seawater Electrolysis Enabled by Atomic Rh-Modulated Co-CoO Lateral Heterostructures. <i>Small</i> , 2021, 17, e2103826.	5.2	47
40	Rational design of ultrathin 2D tin nickel selenide nanosheets for high-performance flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24462-24476.	5.2	44
41	Rational Engineering Co _x O _y Nanosheets via Phosphorous and Sulfur Dual-Coupling for Enhancing Water Splitting and Zn-Air Battery. <i>Advanced Functional Materials</i> , 2021, 31, 2007822.	7.8	44
42	Activated CuNi@Ni Core-shell structures via oxygen and nitrogen dual coordination assembled on 3D CNTs-graphene hybrid for high-performance water splitting. <i>Applied Catalysis B: Environmental</i> , 2021, 294, 120263.	10.8	44
43	Freestanding 1T-Mn _x Mo _{1-x} S ₂ and MoFe ₂ S ₄ Ultrathin Nanosheet-Structured Electrodes for Highly Efficient Flexible Solid-State Asymmetric Supercapacitors. <i>Small</i> , 2020, 16, 2001601.	5.2	43
44	Tunable construction of Fe _x Co _{3-x} Se ₄ nanostructures as advanced electrode for boosting capacity and energy density. <i>Chemical Engineering Journal</i> , 2020, 390, 124557.	6.6	43
45	Covalent doping of Ni and P on 1T-enriched MoS ₂ bifunctional 2D-nanostructures with active basal planes and expanded interlayers boosts electrocatalytic water splitting. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19654-19664.	5.2	41
46	Novel cobalt-doped molybdenum oxynitride quantum dot@N-doped carbon nanosheets with abundant oxygen vacancies for long-life rechargeable zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 9092-9104.	5.2	41
47	A hybrid trimetallic-organic framework-derived N, C co-doped Ni-Fe-Mn-P ultrathin nanosheet electrocatalyst for proficient overall water-splitting. <i>Journal of Materials Chemistry A</i> , 2022, 10, 16457-16467.	5.2	41
48	Bifunctional P-Intercalated and Doped Metallic (1T)-Copper Molybdenum Sulfide Ultrathin 2D-Nanosheets with Enlarged Interlayers for Efficient Overall Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 14492-14503.	4.0	39
49	Synthesis of water soluble sulfonated polyaniline and determination of crystal structure. <i>Journal of Applied Polymer Science</i> , 2010, 117, 2025-2035.	1.3	37
50	Worm-like gold nanowires assembled carbon nanofibers-CVD graphene hybrid as sensitive and selective sensor for nitrite detection. <i>Journal of Colloid and Interface Science</i> , 2021, 583, 425-434.	5.0	36
51	Modulating heterointerfaces of tungsten incorporated CoSe/Co ₃ O ₄ as a highly efficient electrocatalyst for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3782-3792.	5.2	35
52	One-step electrodeposited MoS ₂ @Ni-mesh electrode for flexible and transparent asymmetric solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 24040-24052.	5.2	34
53	Rational design of a highly mesoporous Fe-N-C/Fe ₃ C/C-S-C nanohybrid with dense active sites for superb electrocatalysis of oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23436-23454.	5.2	33
54	Advanced interfacial engineering of oxygen-enriched Fe Sn ¹⁺ OSE nanostructures for efficient overall water splitting and flexible zinc-air batteries. <i>Applied Catalysis B: Environmental</i> , 2022, 305, 120924.	10.8	33

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55	Wear properties of 3-aminopropyltriethoxysilane-functionalized carbon nanotubes reinforced ultra high molecular weight polyethylene nanocomposites. <i>Polymer Engineering and Science</i> , 2010, 50, 1433-1439.	1.5	32
56	Ni-nanoclusters hybridized 1T-Mn-VTe ₂ mesoporous nanosheets for ultra-low potential water splitting. <i>Applied Catalysis B: Environmental</i> , 2022, 301, 120780.	10.8	32
57	Lipase-catalyzed synthesis and characterization of biodegradable polyester containing malic acid unit in solvent system. <i>Journal of Applied Polymer Science</i> , 2011, 120, 1114-1120.	1.3	31
58	Hierarchical 3D structured nanoporous Co ₉ S ₈ @Ni _x :Mo _y -Se core-shell nanowire array electrodes for high-performance asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2021, 9, 27503-27517.	5.2	30
59	Rational manipulation of 3D hierarchical oxygenated nickel tungsten selenide nanosheet as the efficient bifunctional electrocatalyst for overall water splitting. <i>Chemical Engineering Journal</i> , 2022, 430, 132888.	6.6	29
60	Recent progress on single atom/sub-nano electrocatalysts for energy applications. <i>Progress in Materials Science</i> , 2021, 115, 100711.	16.0	27
61	Bifunctional Catalyst Derived from Sulfur-Doped VMoO _x Nanolayer Shelled Co Nanosheets for Efficient Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 42944-42956.	4.0	26
62	One-Pot Hydrothermal Synthesis of La-Doped ZnIn ₂ S ₄ Microspheres with Improved Visible-Light Photocatalytic Performance. <i>Nanomaterials</i> , 2020, 10, 2026.	1.9	23
63	Synthesis of higher soluble nanostructured polyaniline by vapor-phase polymerization and determination of its crystal structure. <i>Journal of Applied Polymer Science</i> , 2009, 114, 331-340.	1.3	20
64	Ni Single Atoms and Ni Phosphate Clusters Synergistically Triggered Surface-Functionalized MoS ₂ Nanosheets for High-performance Freshwater and Seawater Electrolysis. <i>Energy and Environmental Materials</i> , 2022, 5, 1340-1349.	7.3	20
65	Interfacial engineering for design of novel 2D cobalt sulfide-Mxene heterostructured catalyst toward alkaline water splitting. <i>Functional Composites and Structures</i> , 2021, 3, 045005.	1.6	18
66	Single platinum atoms implanted 2D lateral anion-intercalated metal hydroxides of Ni ₂ (OH) ₂ (NO ₃) ₂ as efficient catalyst for high-yield water splitting. <i>Applied Catalysis B: Environmental</i> , 2022, 317, 121684.	10.8	18
67	Surface functionalized carbon nanotubes and its effects on the mechanical properties of epoxy based composites at cryogenic temperature. <i>Polymer Bulletin</i> , 2014, 71, 2465-2485.	1.7	16
68	Recent engineering advances in nanocatalysts for NH ₃ -to-H ₂ conversion technologies. <i>Nano Energy</i> , 2022, 94, 106929.	8.2	15
69	Fabrication of impermeable dense architecture containing covalently stitched graphene oxide/boron nitride hybrid nanofiller reinforced semi-interpenetrating network for hydrogen gas barrier applications. <i>Journal of Materials Chemistry A</i> , 2022, 10, 4376-4391.	5.2	15
70	New hyperbranched polymers for membranes of high-temperature polymer electrolyte membrane fuel cells: Determination of the crystal structure and free volume size. <i>Journal of Applied Polymer Science</i> , 2011, 121, 923-929.	1.3	12
71	Cobalt-doped cerium oxide nanocrystals shelled 1D SnO ₂ structures for highly sensitive and selective xanthine detection in biofluids. <i>Journal of Colloid and Interface Science</i> , 2021, 600, 299-309.	5.0	11
72	Efficient synergism of NiO-NiSe ₂ nanosheet-based heterostructures shelled titanium nitride array for robust overall water splitting. <i>Journal of Colloid and Interface Science</i> , 2022, 612, 121-131.	5.0	10

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73	Freestanding Binder-Free Electrodes with Nanodisk-Needle-like MnCuCo-LTH and Mn ₁ Fe ₂ S ₂ Porous Microthorns for High-Performance Quasi-Solid-State Supercapacitors. ACS Applied Materials & Interfaces, 2022, 14, 12523-12537.	4.0	10
74	Multi-interfacial engineering of IrOx clusters coupled porous zinc Phosphide-Zinc phosphate heterostructure for efficient water splitting. Applied Surface Science, 2022, 600, 154206.	3.1	8
75	Mo and Zn-Dual doped CuxO nanocrystals confined High-Conductive Cu arrays as novel sensitive sensor for neurotransmitter detection. Journal of Colloid and Interface Science, 2022, 606, 1031-1041.	5.0	2