

# Wei-Nien Su

## List of Publications by Year in descending order

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169  
papers

10,911  
citations

39113

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38517

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173  
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173  
docs citations

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times ranked

17908  
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Reversible Zn Metal Anode Stabilized by Dense and Anion-Derived Passivation Layer Obtained from Concentrated Hybrid Aqueous Electrolyte. <i>Advanced Functional Materials</i> , 2022, 32, 2103959.	7.8	48
2	Surface-engineered N-doped carbon nanotubes with B-doped graphene quantum dots: Strategies to develop highly-efficient noble metal-free electrocatalyst for online-monitoring dissolved oxygen biosensor. <i>Carbon</i> , 2022, 186, 406-415.	5.4	36
3	Chemical stability of sulfide solid-state electrolytes: stability toward humid air and compatibility with solvents and binders. <i>Energy and Environmental Science</i> , 2022, 15, 991-1033.	15.6	100
4	Highly Active Oxygen Coordinated Configuration of Fe Single-Atom Catalyst toward Electrochemical Reduction of CO <sub>2</sub> into Multi-Carbon Products. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	37
5	Synthesis of one-dimensional vanadium-doped CoS/Co <sub>9</sub> S <sub>8</sub> heterojunctions as bifunctional electrocatalysts for zinc-air battery. <i>Materials Today Energy</i> , 2022, 25, 100968.	2.5	8
6	Heterostructured composite of NiFe-LDH nanosheets with TiO <sub>2</sub> for oxygen evolution reaction. <i>Materials Today Chemistry</i> , 2022, 24, 100824.	1.7	10
7	Lithium nitrate as a surplus lithium source for anode-free cell with Ni-rich (NMC811) cathode. <i>Journal of Power Sources</i> , 2022, 532, 231303.	4.0	15
8	Resolving anodic and cathodic interface-incompatibility in solid-state lithium metal battery via interface infiltration of designed liquid electrolytes. <i>Journal of Power Sources</i> , 2022, 535, 231425.	4.0	9
9	Strategies towards High Performance Lithium-Sulfur Batteries. <i>Batteries and Supercaps</i> , 2022, 5, .	2.4	30
10	Lithium Oxalate as a Lifespan Extender for Anode-Free Lithium Metal Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 26724-26732.	4.0	21
11	Evolution of Interfacial Phenomena Induced by Electrolyte Formulation and Hot Cycling of Anode-Free Li-Metal Batteries. <i>ACS Applied Energy Materials</i> , 2022, 5, 7770-7783.	2.5	8
12	Fibrous organosulfur cathode materials with high bonded sulfur for high-performance lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2022, 541, 231693.	4.0	22
13	Engineering self-supported ruthenium-titanium alloy oxide on 3D web-like titania as iodide oxidation reaction electrocatalyst to boost hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2022, 316, 121608.	10.8	16
14	Dilute dual-salt electrolyte for successful passivation of in-situ deposited Li anode and permit effective cycling of high voltage anode free batteries. <i>Journal of Power Sources</i> , 2022, 542, 231752.	4.0	3
15	Decoupling Interfacial Reactions at Anode and Cathode by Combining Online Electrochemical Mass Spectroscopy with Anode-Free Li-Metal Battery. <i>Advanced Functional Materials</i> , 2021, 31, 2006951.	7.8	27
16	Highly-lithiophilic Ag@PDA-GO film to Suppress Dendrite Formation on Cu Substrate in Anode-free Lithium Metal Batteries. <i>Energy Storage Materials</i> , 2021, 35, 334-344.	9.5	91
17	Enhancing the electrochemical performance of a flexible solid-state supercapacitor using a gel polymer electrolyte. <i>Materials Today Communications</i> , 2021, 26, 102102.	0.9	15
18	New Insights into the N-S Bond Formation of a Sulfurized-Polyacrylonitrile Cathode Material for Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 14230-14238.	4.0	33

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19	Decoupling the origins of irreversible coulombic efficiency in anode-free lithium metal batteries. <i>Nature Communications</i> , 2021, 12, 1452.	5.8	111
20	Origin of shuttle-free sulfurized polyacrylonitrile in lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2021, 492, 229508.	4.0	33
21	Effects of a Thermally Electrochemically Activated $\beta$ -PVDF Fiber on Suppression of Li Dendrite Growth for Anode-Free Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 3240-3248.	2.5	16
22	Bridging role of ethyl methyl carbonate in fluorinated electrolyte on ionic transport and phase stability for lithium-ion batteries. <i>Journal of Power Sources</i> , 2021, 494, 229760.	4.0	20
23	Synergistic Hybrid Support Comprising $\text{TiO}_2$ -Carbon and Ordered PdNi Alloy for Direct Hydrogen Peroxide Synthesis. <i>ACS Catalysis</i> , 2021, 11, 8407-8416.	5.5	22
24	Iodide Oxidation Reaction Catalyzed by Ruthenium-Tin Surface Alloy Oxide for Efficient Production of Hydrogen and Iodine Simultaneously. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 8803-8812.	3.2	14
25	Mitigating dendrite formation and electrolyte decomposition via functional double layers coating on copper current collector in anode-free lithium metal battery. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 128, 87-97.	2.7	15
26	Investigation into the development of lithium-ion battery electrolytes and related knowledge transfer using research paper-based social network analysis. <i>Journal of Energy Storage</i> , 2021, 41, 102890.	3.9	5
27	Guiding lithium-ion flux to avoid cell's short circuit and extend cycle life for an anode-free lithium metal battery. <i>Journal of Power Sources</i> , 2021, 506, 230204.	4.0	27
28	Tuning Dynamically Formed Active Phases and Catalytic Mechanisms of <i>In Situ</i> Electrochemically Activated Layered Double Hydroxide for Oxygen Evolution Reaction. <i>ACS Nano</i> , 2021, 15, 14996-15006.	7.3	56
29	Flexible hydrophobic filter paper-based SERS substrate using silver nanocubes for sensitive and rapid detection of adenine. <i>Microchemical Journal</i> , 2021, 168, 106349.	2.3	28
30	Plasmonic paper substrates for point-of-need applications: Recent developments and fabrication methods. <i>Sensors and Actuators B: Chemical</i> , 2021, 345, 130401.	4.0	16
31	Structural evolution and Au nanoparticles enhanced photocatalytic activity of sea-urchin-like $\text{TiO}_2$ microspheres: An X-ray absorption spectroscopy study. <i>Applied Surface Science</i> , 2021, 562, 150127.	3.1	8
32	Exploring the performance of carbonate and ether-based electrolytes for anode-free lithium metal batteries operating under various conditions. <i>Journal of Power Sources</i> , 2021, 512, 230388.	4.0	6
33	Synergetic effect of water-in-bisalt electrolyte and hydrogen-bond rich additive improving the performance of aqueous batteries. <i>Journal of Power Sources</i> , 2021, 511, 230413.	4.0	19
34	Dual CuCl doped argyrodite superconductor to boost the interfacial compatibility and air stability for all solid-state lithium metal batteries. <i>Nano Energy</i> , 2021, 90, 106542.	8.2	53
35	Review of recent offshore wind power strategy in Taiwan: Onshore wind power comparison. <i>Energy Strategy Reviews</i> , 2021, 38, 100747.	3.3	13
36	A Powerful Protocol Based on Anode-Free Cells Combined with Various Analytical Techniques. <i>Accounts of Chemical Research</i> , 2021, 54, 4474-4485.	7.6	17

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37	Dielectric nanosheet modified plasmonic-paper as highly sensitive and stable SERS substrate and its application for pesticides detection. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 225, 117484.	2.0	30
38	Binder-free ultra-thin graphene oxide as an artificial solid electrolyte interphase for anode-free rechargeable lithium metal batteries. <i>Journal of Power Sources</i> , 2020, 450, 227589.	4.0	93
39	Engineering heterometallic bonding in bimetallic electrocatalysts: towards optimized hydrogen oxidation and evolution reactions. <i>Catalysis Science and Technology</i> , 2020, 10, 893-903.	2.1	15
40	Mechanistic understanding of the Sulfurized-Poly(acrylonitrile) cathode for lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2020, 26, 483-493.	9.5	99
41	Electrocatalytic reduction of carbon dioxide on gold-copper bimetallic nanoparticles: Effects of surface composition on selectivity. <i>Electrochimica Acta</i> , 2020, 356, 136756.	2.6	24
42	Multifunctional Properties of Al <sub>2</sub> O <sub>3</sub> /Polyacrylonitrile Composite Coating on Cu to Suppress Dendritic Growth in Anode-Free Li-Metal Battery. <i>ACS Applied Energy Materials</i> , 2020, 3, 7666-7679.	2.5	41
43	Ag nanocubes decorated 1T-MoS <sub>2</sub> nanosheets SERS substrate for reliable and ultrasensitive detection of pesticides. <i>Applied Materials Today</i> , 2020, 21, 100871.	2.3	29
44	Ultrathin Li <sub>6.75</sub> La <sub>3</sub> Zr <sub>1.75</sub> Ta <sub>0.25</sub> O <sub>12</sub> -Based Composite Solid Electrolytes Laminated on Anode and Cathode Surfaces for Anode-free Lithium Metal Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 11713-11723.	2.5	35
45	Resolving the Phase Instability of a Fluorinated Ether, Carbonate-Based Electrolyte for the Safe Operation of an Anode-Free Lithium Metal Battery. <i>ACS Applied Energy Materials</i> , 2020, 3, 10722-10733.	2.5	26
46	A new high-Li <sup>+</sup> -conductivity Mg-doped Li <sub>1.5</sub> Al <sub>0.5</sub> Ge <sub>1.5</sub> (PO <sub>4</sub> ) <sub>3</sub> solid electrolyte with enhanced electrochemical performance for solid-state lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 26055-26065.	5.2	25
47	Al-Sc dual-doped LiGe <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> a NASICON-type solid electrolyte with improved ionic conductivity. <i>Journal of Materials Chemistry A</i> , 2020, 8, 11302-11313.	5.2	36
48	Dual-Doped Cubic Garnet Solid Electrolytes with Superior Air Stability. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 25709-25717.	4.0	55
49	Reliable and sensitive detection of pancreatic cancer marker by gold nanoflower-based SERS mapping immunoassay. <i>Microchemical Journal</i> , 2020, 158, 105099.	2.3	24
50	Morphology engineering of cobalt embedded in nitrogen doped porous carbon as bifunctional oxygen electrocatalyst for Zn-air battery. <i>Materials Today Energy</i> , 2020, 17, 100455.	2.5	12
51	Scalable Synthesis of Micron Size Crystals of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> at Room Temperature in Acetonitrile via Rapid Reactive Crystallization. <i>ChemistrySelect</i> , 2020, 5, 3266-3271.	0.7	1
52	Electrochemical transformation reaction of Cu-MnO in aqueous rechargeable zinc-ion batteries for high performance and long cycle life. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17595-17607.	5.2	93
53	Garnet-PVDF composite film modified lithium manganese oxide cathode and sulfurized carbon anode from polyacrylonitrile for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14043-14053.	5.2	12
54	Search for the Developing Trends by Patent Analysis: A Case Study of Lithium-Ion Battery Electrolytes. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 952.	1.3	11

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55	Roles of film-forming additives in diluted and concentrated electrolytes for lithium metal batteries: A density functional theory-based approach. <i>Electrochemistry Communications</i> , 2020, 113, 106685.	2.3	10
56	Hierarchical 3D Architected Ag Nanowires Shelled with NiMn-Layered Double Hydroxide as an Efficient Bifunctional Oxygen Electrocatalyst. <i>ACS Nano</i> , 2020, 14, 1770-1782.	7.3	145
57	Effect of diethyl carbonate solvent with fluorinated solvents as electrolyte system for anode free battery. <i>Journal of Power Sources</i> , 2020, 461, 228102.	4.0	26
58	Developing high-voltage carbonate-ether mixed electrolyte via anode-free cell configuration. <i>Journal of Power Sources</i> , 2020, 461, 228053.	4.0	37
59	High-Rate and Long-Cycle Stability with a Dendrite-Free Zinc Anode in an Aqueous Zn-Ion Battery Using Concentrated Electrolytes. <i>ACS Applied Energy Materials</i> , 2020, 3, 4499-4508.	2.5	95
60	Effects of Concentrated Salt and Resting Protocol on Solid Electrolyte Interface Formation for Improved Cycle Stability of Anode-Free Lithium Metal Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 31962-31971.	4.0	58
61	Effect of bifunctional additive potassium nitrate on performance of anode free lithium metal battery in carbonate electrolyte. <i>Journal of Power Sources</i> , 2019, 437, 226912.	4.0	86
62	A review of transition metal-based bifunctional oxygen electrocatalysts. <i>Journal of the Chinese Chemical Society</i> , 2019, 66, 829-865.	0.8	82
63	Nucleation and Growth Mechanism of Lithium Metal Electroplating. <i>Journal of the American Chemical Society</i> , 2019, 141, 18612-18623.	6.6	144
64	Li <sub>7</sub> La <sub>2.75</sub> Ca <sub>0.25</sub> Zr <sub>1.75</sub> Nb <sub>0.25</sub> O <sub>12</sub> @LiClO <sub>4</sub> composite film derived solid electrolyte interphase for anode-free lithium metal battery. <i>Electrochimica Acta</i> , 2019, 325, 134825.	2.6	54
65	Investigation of Sodium Plating and Stripping on a Bare Current Collector with Different Electrolytes and Cycling Protocols. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 39746-39756.	4.0	21
66	A new class of lithium-ion battery using sulfurized carbon anode from polyacrylonitrile and lithium manganese oxide cathode. <i>Journal of Power Sources</i> , 2019, 434, 126641.	4.0	13
67	Immobilized Single Molecular Molybdenum Disulfide on Carbonized Polyacrylonitrile for Hydrogen Evolution Reaction. <i>ACS Nano</i> , 2019, 13, 6720-6729.	7.3	40
68	Dual electrolyte additives of potassium hexafluorophosphate and tris (trimethylsilyl) phosphite for anode-free lithium metal batteries. <i>Electrochimica Acta</i> , 2019, 316, 52-59.	2.6	70
69	Concentrated Dual-Salt Electrolyte to Stabilize Li Metal and Increase Cycle Life of Anode Free Li-Metal Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1501-A1509.	1.3	104
70	Synergetic electrocatalytic activities towards hydrogen peroxide: Understanding the ordered structure of PdNi bimetallic nanocatalysts. <i>Electrochemistry Communications</i> , 2019, 101, 93-98.	2.3	12
71	A wireless and redox mediator-free Z-scheme twin reactor for the separate evolution of hydrogen and oxygen. <i>Materials Today Energy</i> , 2019, 12, 208-214.	2.5	6
72	Locally Concentrated LiPF <sub>6</sub> in a Carbonate-Based Electrolyte with Fluoroethylene Carbonate as a Diluent for Anode-Free Lithium Metal Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 9955-9963.	4.0	141

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73	Improved bi-functional ORR and OER catalytic activity of reduced graphene oxide supported ZnCo <sub>2</sub> O <sub>4</sub> microsphere. International Journal of Hydrogen Energy, 2019, 44, 1565-1578.	3.8	83
74	Sulfurized poly(acrylonitrile) wrapped carbon sulfur composite cathode material for high performance rechargeable lithium sulfur batteries. Journal of Power Sources, 2019, 412, 670-676.	4.0	38
75	Site Activity and Population Engineering of NiRu-Layered Double Hydroxide Nanosheets Decorated with Silver Nanoparticles for Oxygen Evolution and Reduction Reactions. ACS Catalysis, 2019, 9, 117-129.	5.5	103
76	Selective and Low Overpotential Electrochemical CO <sub>2</sub> Reduction to Formate on CuS Decorated CuO Heterostructure. Catalysis Letters, 2019, 149, 860-869.	1.4	36
77	Multilayer-graphene-stabilized lithium deposition for anode-free lithium-metal batteries. Nanoscale, 2019, 11, 2710-2720.	2.8	118
78	Conversion of Carbon Dioxide into Valuable Chemicals through Electrochemical Reduction Using Transition Metal Electrocatalysts. ECS Meeting Abstracts, 2019, , .	0.0	0
79	New 2.1 V Lithium-Ion Battery with Sulfurized Polyacrylonitrile (SPAN) Anode and LiMn <sub>2</sub> O <sub>4</sub> Cathode. ECS Meeting Abstracts, 2019, , .	0.0	0
80	Synergistic Effect of Cycling Strategies and Electrolyte for Effective Plating/Stripping of Anode Free Li Metal Batteries.. ECS Meeting Abstracts, 2019, , .	0.0	0
81	The Combined Effect of Cycling Strategy and Potential Electrolyte in Fast Charging/Discharging of Li-Metal Based Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
82	Sulfurized-Poly(acrylonitrile) Coated C/S Composite Cathode Materials for Rechargeable Lithium-Sulfur Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
83	Universal Mechanism and Rate Equation for Hydrogen Oxidation Reaction. ECS Meeting Abstracts, 2019, , .	0.0	0
84	Fibrous Organosulfur Compounds As Cathode Materials for High-Performance Lithium-Sulfur Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
85	Transition-Metal-Doped TiO <sub>2</sub> Decorated NiFe Layered Double Hydroxide Catalyst in Alkaline Oxygen Evolution Reaction. ECS Meeting Abstracts, 2019, , .	0.0	0
86	Robust and conductive Magn <sup>2+</sup> /Li <sup>+</sup> Phase Ti <sub>4</sub> O <sub>7</sub> decorated on 3D-nanoflower NiRu-LDH as high-performance oxygen reduction electrocatalyst. Nano Energy, 2018, 47, 309-315.	8.2	59
87	Polyethylene oxide film coating enhances lithium cycling efficiency of an anode-free lithium-metal battery. Nanoscale, 2018, 10, 6125-6138.	2.8	215
88	<i>In situ</i> analytical techniques for battery interface analysis. Chemical Society Reviews, 2018, 47, 736-851.	18.7	355
89	Nanostructured nickel ferrite embedded in reduced graphene oxide for electrocatalytic hydrogen evolution reaction. Materials Today Energy, 2018, 8, 118-124.	2.5	47
90	In Situ Confined Synthesis of Ti <sub>4</sub> O <sub>7</sub> Supported Platinum Electrocatalysts with Enhanced Activity and Stability for the Oxygen Reduction Reaction. ChemCatChem, 2018, 10, 1155-1165.	1.8	20

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91	Descriptor study by density functional theory analysis for the direct synthesis of hydrogen peroxide using palladium-gold and palladium-mercury alloy catalysts. <i>Molecular Systems Design and Engineering</i> , 2018, 3, 896-907.	1.7	8
92	Synergy between Ceria Oxygen Vacancies and Cu Nanoparticles Facilitates the Catalytic Conversion of CO <sub>2</sub> to CO under Mild Conditions. <i>ACS Catalysis</i> , 2018, 8, 12056-12066.	5.5	137
93	Copper and Copper-Based Bimetallic Catalysts for Carbon Dioxide Electroreduction. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800919.	1.9	72
94	Visible-Light-Mediated Electrocatalytic Activity in Reduced Graphene Oxide-Supported Bismuth Ferrite. <i>ACS Omega</i> , 2018, 3, 5946-5957.	1.6	74
95	3D-functionalized shell isolated Ag nanocubes on a miniaturized flexible platform for sensitive and selective SERS detection of small molecules. <i>Microchemical Journal</i> , 2018, 142, 305-312.	2.3	18
96	Designed Synergetic Effect of Electrolyte Additives to Improve Interfacial Chemistry of MCMB Electrode in Propylene Carbonate-Based Electrolyte for Enhanced Low and Room Temperature Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 25252-25262.	4.0	31
97	Improvement of Cycling Performance of Na <sub>2/3</sub> Co <sub>2/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> Cathode by PEDOT/PSS Surface Coating for Na Ion Batteries. <i>Indonesian Journal of Chemistry</i> , 2018, 18, 127.	0.3	1
98	Highly sensitive and stable Ag@SiO <sub>2</sub> nanocubes for label-free SERS-photoluminescence detection of biomolecules. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 175, 239-245.	2.0	27
99	A Plasmonic Coupling Substrate Based on Sandwich Structure of Ultrathin Silica-Coated Silver Nanocubes and Flower-Like Alumina-Coated Etched Aluminum for Sensitive Detection of Biomarkers in Urine. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601290.	3.9	11
100	Tuning/exploiting Strong Metal-Support Interaction (SMSI) in Heterogeneous Catalysis. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 74, 154-186.	2.7	238
101	Controllable embedding of sulfur in high surface area nitrogen doped three dimensional reduced graphene oxide by solution drop impregnation method for high performance lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2017, 353, 298-311.	4.0	71
102	Revealing the mitigation of intrinsic structure transformation and oxygen evolution in a layered Li <sub>1.2</sub> Ni <sub>0.2</sub> Mn <sub>0.6</sub> O <sub>2</sub> cathode using restricted charging protocols. <i>Journal of Power Sources</i> , 2017, 359, 539-548.	4.0	38
103	Visualization of Lithium Plating and Stripping via <i>in Operando</i> Transmission X-ray Microscopy. <i>Journal of Physical Chemistry C</i> , 2017, 121, 7761-7766.	1.5	123
104	Capacity retention of lithium sulfur batteries enhanced with nano-sized TiO <sub>2</sub> -embedded polyethylene oxide. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6708-6715.	5.2	66
105	Tuning metal support interactions enhances the activity and durability of TiO <sub>2</sub> -supported Pt nanocatalysts. <i>Electrochimica Acta</i> , 2017, 224, 452-459.	2.6	101
106	Improved Interfacial Properties of MCMB Electrode by 1-(Trimethylsilyl)imidazole as New Electrolyte Additive To Suppress LiPF <sub>6</sub> Decomposition. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 2410-2420.	4.0	72
107	Dual-Confined Sulfur in Hybrid Nanostructured Materials for Enhancement of Lithium-Sulfur Battery Cathode Capacity Retention. <i>ChemElectroChem</i> , 2017, 4, 636-647.	1.7	31
108	DFT study reveals geometric and electronic synergisms of palladium-mercury alloy catalyst used for hydrogen peroxide formation. <i>Applied Catalysis A: General</i> , 2017, 547, 69-74.	2.2	16

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109	Identification of the physical origin behind disorder, heterogeneity, and reconstruction and their correlation with the photoluminescence lifetime in hybrid perovskite thin films. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21002-21015.	5.2	10
110	Sequentially surface modified hematite enables lower applied bias photoelectrochemical water splitting. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 20881-20890.	1.3	34
111	Design of transition-metal-doped TiO <sub>2</sub> as a multipurpose support for fuel cell applications: using a computational high-throughput material screening approach. <i>Molecular Systems Design and Engineering</i> , 2017, 2, 449-456.	1.7	10
112	Ag@SiO <sub>2</sub> nanocube loaded miniaturized filter paper as a hybrid flexible plasmonic SERS substrate for trace melamine detection. <i>Analytical Methods</i> , 2017, 9, 6823-6829.	1.3	22
113	Platinum loaded on dual-doped TiO <sub>2</sub> as an active and durable oxygen reduction reaction catalyst. <i>NPG Asia Materials</i> , 2017, 9, e403-e403.	3.8	43
114	Unravelling Surface Composition of Bimetallic Nanoparticles. <i>ChemNanoMat</i> , 2016, 2, 117-124.	1.5	6
115	Visible light responsive noble metal-free nanocomposite of V-doped TiO <sub>2</sub> nanorod with highly reduced graphene oxide for enhanced solar H <sub>2</sub> production. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 6752-6762.	3.8	30
116	Hybrid nanostructured microporous carbon-mesoporous carbon doped titanium dioxide/sulfur composite positive electrode materials for rechargeable lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2016, 324, 239-252.	4.0	57
117	Interplay between Molybdenum Dopant and Oxygen Vacancies in a TiO <sub>2</sub> Support Enhances the Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2016, 6, 6551-6559.	5.5	103
118	Resilient Yolk-Shell Silicon-Reduced Graphene Oxide/Amorphous Carbon Anode Material from a Synergistic Dual-Coating Process for Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2016, 3, 1446-1454.	1.7	25
119	Facile Synthesis of [101]-Oriented Rutile TiO <sub>2</sub> Nanorod Array on FTO Substrate with a Tunable Anatase-Rutile Heterojunction for Efficient Solar Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 5963-5971.	3.2	53
120	A highly stable CuS and CuS-Pt modified Cu <sub>2</sub> O/CuO heterostructure as an efficient photocathode for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2205-2216.	5.2	199
121	Using hematite for photoelectrochemical water splitting: a review of current progress and challenges. <i>Nanoscale Horizons</i> , 2016, 1, 243-267.	4.1	612
122	Rational design of ethanol steam reforming catalyst based on analysis of Ni/La <sub>2</sub> O <sub>3</sub> metal-support interactions. <i>Catalysis Science and Technology</i> , 2016, 6, 3449-3456.	2.1	24
123	Organometal halide perovskite solar cells: degradation and stability. <i>Energy and Environmental Science</i> , 2016, 9, 323-356.	15.6	1,457
124	An Efficiency Evaluation of the EU's Allocation of Carbon Emission Allowances. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 2015, 10, 192-200.	1.8	50
125	Photoelectrochemical water splitting at low applied potential using a NiOOH coated codoped (Sn, Zr) Fe <sub>2</sub> O <sub>3</sub> photoanode. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5949-5961.	5.2	211
126	Improved Raman and photoluminescence sensitivity achieved using bifunctional Ag@SiO <sub>2</sub> nanocubes. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 21226-21235.	1.3	30



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127	Efficient photoelectrochemical water splitting using three dimensional urchin-like hematite nanostructure modified with reduced graphene oxide. Journal of Power Sources, 2015, 287, 119-128.	4.0	94
128	Heterostructured Cu <sub>2</sub> O/CuO decorated with nickel as a highly efficient photocathode for photoelectrochemical water reduction. Journal of Materials Chemistry A, 2015, 3, 12482-12499.	5.2	257
129	Operando X-ray diffraction and X-ray absorption studies of the structural transformation upon cycling excess Li layered oxide Li <sub>1/18</sub> Co <sub>1/6</sub> Ni <sub>1/3</sub> Mn <sub>4/9</sub> O <sub>2</sub> in Li ion batteries. Journal of Materials Chemistry A, 2015, 3, 8613-8626.	5.2	14
130	Facile one-pot controlled synthesis of Sn and C codoped single crystal TiO <sub>2</sub> nanowire arrays for highly efficient photoelectrochemical water splitting. Applied Catalysis B: Environmental, 2015, 163, 478-486.	10.8	55
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