

Yucheng Wu

List of Publications by Year in descending order

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89
papers

3,450
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117625

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5046
citing authors

#	ARTICLE	IF	CITATIONS
1	Core-Shell Heterojunction of Silicon Nanowire Arrays and Carbon Quantum Dots for Photovoltaic Devices and Self-Driven Photodetectors. <i>ACS Nano</i> , 2014, 8, 4015-4022.	14.6	258
2	Rational Design of Nanostructured Electrode Materials toward Multifunctional Supercapacitors. <i>Advanced Functional Materials</i> , 2020, 30, 1902564.	14.9	252
3	Electrically and Sunlight-Driven Actuator with Versatile Biomimetic Motions Based on Rolled Carbon Nanotube Bilayer Composite. <i>Advanced Functional Materials</i> , 2017, 27, 1704388.	14.9	211
4	Ultrafast, Self-Driven, and Air-Stable Photodetectors Based on Multilayer PtSe ₂ /Perovskite Heterojunctions. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1185-1194.	4.6	159
5	Coordination derived stable Ni-Co MOFs for foldable all-solid-state supercapacitors with high specific energy. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4998-5008.	10.3	133
6	A facile synthesis of mesoporous Co ₃ O ₄ /CeO ₂ hybrid nanowire arrays for high performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10425-10431.	10.3	108
7	MOF-74 derived porous hybrid metal oxide hollow nanowires for high-performance electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8396-8404.	10.3	101
8	CeO ₂ /C/rGO nanocomposites derived from Ce-MOF and graphene oxide as a robust platform for highly sensitive uric acid detection. <i>Nanoscale</i> , 2018, 10, 1939-1945.	5.6	88
9	Z-scheme carbon-bridged Bi ₂ O ₃ /TiO ₂ nanotube arrays to boost photoelectrochemical detection performance. <i>Applied Catalysis B: Environmental</i> , 2019, 248, 255-263.	20.2	85
10	Light-Driven Self-Oscillating Actuators with Phototactic Locomotion Based on Black Phosphorus Heterostructure. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20511-20517.	13.8	82
11	A High-Efficiency Mo ₂ C Electrocatalyst Promoting the Polysulfide Redox Kinetics for Na-S Batteries. <i>Advanced Materials</i> , 2022, 34, e2200479.	21.0	72
12	Graphitic carbon nitride nanosheets obtained by liquid stripping as efficient photocatalysts under visible light. <i>RSC Advances</i> , 2017, 7, 37185-37193.	3.6	68
13	Remarkable supercapacitive performance of TiO ₂ nanotube arrays by introduction of oxygen vacancies. <i>Chemical Engineering Journal</i> , 2017, 313, 1071-1081.	12.7	64
14	Sulfur-deficient MoS _{2-x} promoted lithium polysulfides conversion in lithium-sulfur battery: A first-principles study. <i>Applied Surface Science</i> , 2019, 487, 452-463.	6.1	58
15	Systematic study on hybrid supercapacitor of Ni-Co layered double hydroxide/activated carbons. <i>Electrochimica Acta</i> , 2019, 305, 403-415.	5.2	58
16	Local nanostructures enhanced the thermoelectric performance of n-type PbTe. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18458-18467.	10.3	53
17	Ni(OH) ₂ /CNTs hierarchical spheres for a foldable all-solid-state supercapacitor with high specific energy. <i>Nanoscale</i> , 2018, 10, 7377-7381.	5.6	52
18	Inorganic CsBi ₃ perovskite/silicon heterojunctions for sensitive, self-driven and air-stable NIR photodetectors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 863-870.	5.5	50

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19	Highly Efficient Photoinduced Enhanced Raman Spectroscopy (PIERS) from Plasmonic Nanoparticles Decorated 3D Semiconductor Arrays for Ultrasensitive, Portable, and Recyclable Detection of Organic Pollutants. <i>ACS Sensors</i> , 2019, 4, 1670-1681.	7.8	50
20	Perovskite Chromates Cathode with Exsolved Iron Nanoparticles for Direct High-Temperature Steam Electrolysis. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 8553-8562.	8.0	49
21	Assembling of Bi atoms on TiO ₂ nanorods boosts photoelectrochemical water splitting of semiconductors. <i>Nanoscale</i> , 2020, 12, 4302-4308.	5.6	49
22	Rational Design of Oxygen Deficiency-Controlled Tungsten Oxide Electrochromic Films with an Exceptional Memory Effect. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 32658-32665.	8.0	46
23	Structure modulated amorphous/crystalline WO ₃ nanoporous arrays with superior electrochromic energy storage performance. <i>Solar Energy Materials and Solar Cells</i> , 2020, 212, 110579.	6.2	45
24	Anti-site defect effect on the electronic structure of a Bi ₂ Te ₃ topological insulator. <i>RSC Advances</i> , 2018, 8, 423-428.	3.6	42
25	Crystalline WO ₃ nanowires array sheathed with sputtered amorphous shells for enhanced electrochromic performance. <i>Applied Surface Science</i> , 2019, 498, 143796.	6.1	42
26	A bioinspired multi-functional wearable sensor with an integrated light-induced actuator based on an asymmetric graphene composite film. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6879-6888.	5.5	42
27	Photoelectrochemical Performances and Potential Applications of TiO ₂ Nanotube Arrays Modified with Ag and Pt Nanoparticles. <i>Electrochimica Acta</i> , 2014, 121, 194-202.	5.2	41
28	Synthesis of porous NiO/CeO ₂ hybrid nanoflake arrays as a platform for electrochemical biosensing. <i>Nanoscale</i> , 2016, 8, 770-774.	5.6	41
29	<i>In situ</i> growth of PEDOT/graphene oxide nanostructures with enhanced electrochromic performance. <i>RSC Advances</i> , 2018, 8, 13679-13685.	3.6	41
30	Biomimetic synthesis of hierarchical 3D Ag butterfly wing scale arrays/graphene composites as ultrasensitive SERS substrates for efficient trace chemical detection. <i>Journal of Materials Chemistry C</i> , 2018, 6, 1933-1943.	5.5	39
31	A flake-tube structured BiOBr@TiO ₂ nanotube array heterojunction with enhanced visible light photocatalytic activity. <i>New Journal of Chemistry</i> , 2014, 38, 3022-3028.	2.8	38
32	Photocatalytic property of a Bi ₂ O ₃ nanoparticle modified BiOCl composite with a nanolayered hierarchical structure synthesized by in situ reactions. <i>Dalton Transactions</i> , 2015, 44, 5386-5395.	3.3	38
33	Integration of a highly ordered gold nanowires array with glucose oxidase for ultra-sensitive glucose detection. <i>Analytica Chimica Acta</i> , 2014, 809, 134-140.	5.4	37
34	Plasmonic 3D Semiconductor@Metal Nanopore Arrays for Reliable Surface-Enhanced Raman Scattering Detection and In-Site Catalytic Reaction Monitoring. <i>ACS Sensors</i> , 2018, 3, 2446-2454.	7.8	36
35	Electrochemical Biosensor based on Pt/Au Alloy Nanowire Arrays for Phosphate Detection. <i>Journal of the Electrochemical Society</i> , 2015, 162, B62-B67.	2.9	34
36	Fabrication of WO ₃ /TiO ₂ core-shell nanowire arrays: Structure design and high electrochromic performance. <i>Electrochimica Acta</i> , 2020, 330, 135189.	5.2	34

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37	A multifunctional separator based on scandium oxide nanocrystal decorated carbon nanotubes for high performance lithium-sulfur batteries. <i>Nanoscale</i> , 2020, 12, 6832-6843.	5.6	34
38	Photoluminescence properties of Eu ³⁺ and Bi ³⁺ in YBO ₃ host under vacuum ultraviolet/ultraviolet excitation. <i>Journal of Applied Physics</i> , 2009, 105, 013513.	2.5	31
39	Preparation of V ₂ O ₅ dot-decorated WO ₃ nanorod arrays for high performance multi-color electrochromic devices. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12206-12216.	5.5	31
40	Theoretical Insights into the Favorable Functionalized Ti ₂ C-Based MXenes for Lithium-Sulfur Batteries. <i>ACS Omega</i> , 2020, 5, 29272-29283.	3.5	28
41	Synthesis of Bi ₂ Mo ₃ O ₁₂ /TiO ₂ Nanotube Arrays for Photoelectrochemical COD Detection Application. <i>Langmuir</i> , 2017, 33, 8933-8942.	3.5	27
42	Mechanistic Insights into the Chemo- and Regio-Selective B(C ₆ F ₅) ₃ Catalyzed C-H Functionalization of Phenols with Diazoesters. <i>Journal of Organic Chemistry</i> , 2019, 84, 14508-14519.	3.2	27
43	Ni-Co coordination hollow spheres for high performance flexible all-solid-state supercapacitor. <i>Electrochimica Acta</i> , 2020, 337, 135828.	5.2	27
44	Nitrogen, sulfur-codoped micro-mesoporous carbon derived from boat-fruited sterculia seed for robust lithium-sulfur batteries. <i>RSC Advances</i> , 2019, 9, 15715-15726.	3.6	24
45	Layer-by-Layer Assembly of CeO ₂ @C-rGO Nanocomposites and CNTs as a Multifunctional Separator Coating for Highly Stable Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 18634-18645.	8.0	24
46	Theoretical prediction of B/Al-doped black phosphorus as potential cathode material in lithium-sulfur batteries. <i>Applied Surface Science</i> , 2020, 512, 145639.	6.1	22
47	An amorphous MoS _x modified g-C ₃ N ₄ composite for efficient photocatalytic hydrogen evolution under visible light. <i>RSC Advances</i> , 2019, 9, 15900-15909.	3.6	20
48	Flow-through TiO ₂ nanotube arrays: a modified support with homogeneous distribution of Ag nanoparticles and their photocatalytic activities. <i>New Journal of Chemistry</i> , 2013, 37, 752.	2.8	19
49	In situ W/O Co-doped hollow carbon nitride tubular structures with enhanced visible-light-driven photocatalytic performance for hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 234-246.	7.1	19
50	ZIF-8 derived TiO ₂ /ZnO heterostructure decorated with AgNPs as SERS sensor for sensitive identification of trace pesticides. <i>Journal of Alloys and Compounds</i> , 2022, 901, 163675.	5.5	19
51	Al doped Ni-Co layered double hydroxides with surface-sulphuration for highly stable flexible supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2022, 615, 173-183.	9.4	19
52	Integration of mesoporous nickel cobalt oxide nanosheets with ultrathin layer carbon wrapped TiO ₂ nanotube arrays for high-performance supercapacitors. <i>New Journal of Chemistry</i> , 2016, 40, 6881-6889.	2.8	18
53	All solid supercapacitors based on an anion conducting polymer electrolyte. <i>RSC Advances</i> , 2016, 6, 19826-19832.	3.6	17
54	Supercapacitive performance of homogeneous Co ₃ O ₄ /TiO ₂ nanotube arrays enhanced by carbon layer and oxygen vacancies. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 1069-1078.	2.5	17

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55	MoS ₂ /x Quantum Dot-Modified Black Silicon for Highly Efficient Photoelectrochemical Hydrogen Evolution. ACS Sustainable Chemistry and Engineering, 2019, 7, 17598-17605.	6.7	17
56	3D Tungsten Disulfide/Carbon Nanotube Networks as Separator Coatings and Cathode Additives for Stable and Fast Lithium-Sulfur Batteries. ACS Applied Materials & Interfaces, 2021, 13, 45547-45557.	8.0	17
57	One-step electrodeposition of Co _{0.12} Ni _{1.88} S ₂ @Co _{0.8} S _{0.9} nanoparticles on highly conductive TiO ₂ nanotube arrays for battery-type electrodes with enhanced energy storage performance. Journal of Power Sources, 2017, 364, 400-409.	7.8	17
58	Photoelectrochemical properties and the detection mechanism of Bi ₂ WO ₆ nanosheet modified TiO ₂ nanotube arrays. Dalton Transactions, 2015, 44, 17784-17794.	3.3	16
59	Crystalline orientation preference for TiO ₂ nanotube arrays with efficient photoelectrochemical properties. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2759-2762.	2.1	16
60	Photoelectrochemical detection performance and mechanism discussion of Bi ₂ O ₃ modified TiO ₂ nanotube arrays. RSC Advances, 2016, 6, 61367-61377.	3.6	14
61	Supercapacitive performance of electrochemically doped TiO ₂ nanotube arrays decorated with Cu ₂ O nanoparticles. RSC Advances, 2016, 6, 47669-47675.	3.6	14
62	Synthesis of alloyed Zn _{1-x} Mn _x S nanowires with completely controlled compositions and tunable bandgaps. RSC Advances, 2018, 8, 374-379.	3.6	14
63	Ag Nanoparticle-Decorated Mesoporous Silica as a Dual-Mode Raman Sensing Platform for Detection of Volatile Organic Compounds. ACS Applied Nano Materials, 2021, 4, 1019-1028.	5.0	13
64	Plasmon-coupled 3D porous hotspot architecture for super-sensitive quantitative SERS sensing of toxic substances on real sample surfaces. Physical Chemistry Chemical Physics, 2019, 21, 19288-19297.	2.8	12
65	Rational construction of porous amorphous WO ₃ nanostructures with high electrochromic energy storage performance: Effect of temperature. Journal of Non-Crystalline Solids, 2020, 549, 120337.	3.1	12
66	Rationally Designed Graphene/Bilayer Silver/Cu Hybrid Structure with Improved Sensitivity and Stability for Highly Efficient SERS Sensing. ACS Omega, 2018, 3, 5761-5770.	3.5	11
67	Hollow Au nanorattles for boosting the performance of organic photovoltaics. Journal of Materials Chemistry A, 2019, 7, 26797-26803.	10.3	11
68	Controlled growth of porous oxygen-deficient NiCo ₂ O ₄ nanobelts as high-efficiency electrocatalysts for oxygen evolution reaction. Catalysis Science and Technology, 2021, 11, 264-271.	4.1	11
69	3D Hierarchical Urchin-Like Ni _{0.3} Co _{0.6} Cu _{0.1} (CO ₃) _{0.5} (OH) Microspheres for Supercapacitors with High Specific Capacitance. Energy & Fuels, 2021, 35, 20358-20366.	5.1	11
70	Photo-assisted synthesis of coaxial-structured polypyrrole/electrochemically hydrogenated TiO ₂ nanotube arrays as a high performance supercapacitor electrode. RSC Advances, 2018, 8, 13393-13400.	3.6	10
71	Thermal shock behavior of W-ZrC/Sc ₂ O ₃ composites under two different transient events by electron and laser irradiation. Journal of Nuclear Materials, 2018, 499, 248-255.	2.7	10
72	Mesoporous anodic γ -Fe ₂ O ₃ interferometer for organic vapor sensing application. RSC Advances, 2018, 8, 31121-31128.	3.6	10

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73	Synthesis of SrTiO ₃ submicron cubes with simultaneous and competitive photocatalytic activity for H ₂ O splitting and CO ₂ reduction. RSC Advances, 2020, 10, 42619-42627.	3.6	10
74	New insights into synergistic effects of La ₂ O ₃ and nitrogen doped carbon for improved redox kinetics in lithium-sulfur batteries: A computational study. Applied Surface Science, 2021, 563, 150172.	6.1	10
75	Designing core-shell metal-organic framework hybrids: toward high-efficiency electrochemical potassium storage. Journal of Materials Chemistry A, 2021, 9, 26181-26188.	10.3	10
76	A surface precleaning strategy intensifies the interface coupling of the Bi ₂ O ₃ /TiO ₂ heterostructure for enhanced photoelectrochemical detection properties. Materials Chemistry Frontiers, 2020, 4, 638-644.	5.9	9
77	Carbon Nanolayer-Wrapped Mesoporous TiO ₂ @B/Anatase for Li ⁺ Storage. ACS Applied Nano Materials, 2021, 4, 7832-7839.	5.0	8
78	Construction of WO ₃ /Ti-doped WO ₃ bi-layer nanopore arrays with superior electrochromic and capacitive performances. Tungsten, 2019, 1, 236-244.	4.8	7
79	Dithiothreitol-assisted polysulfide reduction in the interlayer of lithium-sulfur batteries: a first-principles study. Physical Chemistry Chemical Physics, 2019, 21, 16435-16443.	2.8	7
80	Electrochemical hydrogenated TiO ₂ nanotube arrays decorated with 3D cotton-like porous MnO ₂ enables superior supercapacitive performance. RSC Advances, 2017, 7, 31512-31518.	3.6	6
81	Enhanced Energy Storage Performance of 3D Hybrid Metal Sulfides via Synergistic Engineering of Architecture and Composition. ACS Sustainable Chemistry and Engineering, 2020, 8, 11491-11500.	6.7	5
82	Composition Dependent Magnetic Properties of Ni-Co-P Coated Carbon Nanotubes. Chinese Journal of Chemical Physics, 2009, 22, 411-416.	1.3	4
83	Theoretical understanding for anchoring effect of MOFs for lithium-sulfur batteries. Computational and Theoretical Chemistry, 2021, 1196, 113110.	2.5	4
84	Highly efficient solar-driven photocatalytic hydrogen evolution with FeMoS _x /mpg-C ₃ N ₄ heterostructure. Chemical Engineering Journal, 2022, 427, 131507.	12.7	4
85	Solution synthesis ultrathin PbTe _{0.5} Se _{0.5} nanowires and the low lattice thermal conductivity. Journal of Physics and Chemistry of Solids, 2020, 141, 109370.	4.0	3
86	Light-Driven Self-Oscillating Actuators with Phototactic Locomotion Based on Black Phosphorus Heterostructure. Angewandte Chemie, 2021, 133, 20674-20680.	2.0	3
87	Improved hydrogen evolution with SnS ₂ quantum dot-incorporated black Si photocathode. Dalton Transactions, 2021, 50, 13329-13336.	3.3	3
88	Rational Regulation of Surface Free Radicals on TiO ₂ Nanotube Arrays via Ag ₂ O@AgBiO ₃ towards Enhanced Selective Photoelectrochemical Detection. Nanomaterials, 2020, 10, 2002.	4.1	1
89	Porous Copper Foam-based Plasmonic Nanocrystals Modified Three-dimensional Semiconductor Nanoflowers for Multifold, Recyclable and Portable Detection of Environmental Contaminant. Particle and Particle Systems Characterization, 0, , 2200072.	2.3	1