

# Wei-Wei Zhao

## List of Publications by Citations

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166  
papers

7,035  
citations

42  
h-index

81  
g-index

179  
ext. papers

8,482  
ext. citations

7.9  
avg, IF

6.44  
L-index

#	Paper	IF	Citations
166	High-precision realization of robust quantum anomalous Hall state in a hard ferromagnetic topological insulator. <i>Nature Materials</i> , <b>2015</b> , 14, 473-7	27	581
165	Photoelectrochemical bioanalysis: the state of the art. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 729-41	58.5	580
164	Photoelectrochemical DNA biosensors. <i>Chemical Reviews</i> , <b>2014</b> , 114, 7421-41	68.1	579
163	Ising pairing in superconducting NbSe <sub>2</sub> atomic layers. <i>Nature Physics</i> , <b>2016</b> , 12, 139-143	16.2	534
162	Highly sensitive photoelectrochemical immunoassay with enhanced amplification using horseradish peroxidase induced biocatalytic precipitation on a CdS quantum dots multilayer electrode. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 917-23	7.8	241
161	Correlated metals as transparent conductors. <i>Nature Materials</i> , <b>2016</b> , 15, 204-10	27	203
160	In situ enzymatic ascorbic acid production as electron donor for CdS quantum dots equipped TiO <sub>2</sub> nanotubes: a general and efficient approach for new photoelectrochemical immunoassay. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 10518-21	7.8	192
159	Photoelectrochemical Immunoassays. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 615-627	7.8	181
158	Quantum dots: electrochemiluminescent and photoelectrochemical bioanalysis. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 9520-31	7.8	179
157	Photoelectrochemical enzymatic biosensors. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 92, 294-304	11.8	171
156	Energy transfer between CdS quantum dots and Au nanoparticles in photoelectrochemical detection. <i>Chemical Communications</i> , <b>2011</b> , 47, 10990-2	5.8	151
155	Exciton-plasmon interactions between CdS quantum dots and Ag nanoparticles in photoelectrochemical system and its biosensing application. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 5892-7	7.8	150
154	Hybrid PbS Quantum Dot/Nanoporous NiO Film Nanostructure: Preparation, Characterization, and Application for a Self-Powered Cathodic Photoelectrochemical Biosensor. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 8070-8078	7.8	121
153	Acetylcholine esterase antibodies on BiOI nanoflakes/TiO <sub>2</sub> nanoparticles electrode: a case of application for general photoelectrochemical enzymatic analysis. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 11686-90 <sup>8</sup>	7.8	95
152	Alkaline Phosphatase Tagged Antibodies on Gold Nanoparticles/TiO <sub>2</sub> Nanotubes Electrode: A Plasmonic Strategy for Label-Free and Amplified Photoelectrochemical Immunoassay. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 5626-30	7.8	88
151	Simultaneous Photoelectrochemical Immunoassay of Dual Cardiac Markers Using Specific Enzyme Tags: A Proof of Principle for Multiplexed Bioanalysis. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 1990-4	7.8	83
150	Zero-Field Dissipationless Chiral Edge Transport and the Nature of Dissipation in the Quantum Anomalous Hall State. <i>Physical Review Letters</i> , <b>2015</b> , 115, 057206	7.4	76

149	A general strategy for photoelectrochemical immunoassay using an enzyme label combined with a CdS quantum dot/TiO <sub>2</sub> nanoparticle composite electrode. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 11513-6	7.8	75
148	Gold Nanoparticle Couples with Entropy-Driven Toehold-Mediated DNA Strand Displacement Reaction on Magnetic Beads: Toward Ultrasensitive Energy-Transfer-Based Photoelectrochemical Detection of miRNA-141 in Real Blood Sample. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 11892-11898	7.8	74
147	The coupling of localized surface plasmon resonance-based photoelectrochemistry and nanoparticle size effect: towards novel plasmonic photoelectrochemical biosensing. <i>Chemical Communications</i> , <b>2012</b> , 48, 895-7	5.8	67
146	Immunogold labeling-induced synergy effect for amplified photoelectrochemical immunoassay of prostate-specific antigen. <i>Chemical Communications</i> , <b>2012</b> , 48, 5253-5	5.8	66
145	Experimental verification of the van Vleck nature of long-range ferromagnetic order in the vanadium-doped three-dimensional topological insulator Sb(2)Te(3). <i>Physical Review Letters</i> , <b>2015</b> , 114, 146802	7.4	63
144	In situ modification of a semiconductor surface by an enzymatic process: a general strategy for photoelectrochemical bioanalysis. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 8503-6	7.8	63
143	Photoelectrochemical detection of metal ions. <i>Analyst, The</i> , <b>2016</b> , 141, 4262-71	5	62
142	Bismuth Oxyiodide Couples with Glucose Oxidase: A Special Synergized Dual-Catalysis Mechanism for Photoelectrochemical Enzymatic Bioanalysis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 3372-3379	9.5	61
141	DNA Labeling Generates a Unique Amplification Probe for Sensitive Photoelectrochemical Immunoassay of HIV-1 p24 Antigen. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 5496-9	7.8	60
140	Quantum-dots-based photoelectrochemical bioanalysis highlighted with recent examples. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 94, 207-218	11.8	59
139	Nanochannels Photoelectrochemical Biosensor. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 2341-2347	7.8	56
138	Invoking Direct Exciton-Plasmon Interactions by Catalytic Ag Deposition on Au Nanoparticles: Photoelectrochemical Bioanalysis with High Efficiency. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 4183-7	7.8	54
137	Direct imaging of electron transfer and its influence on superconducting pairing at FeSe/SrTiO interface. <i>Science Advances</i> , <b>2018</b> , 4, eaao2682	14.3	51
136	Protein Binding Bends the Gold Nanoparticle Capped DNA Sequence: Toward Novel Energy-Transfer-Based Photoelectrochemical Protein Detection. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 3864-71	7.8	51
135	Bilayer Tubular Micromotors for Simultaneous Environmental Monitoring and Remediation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 35099-35107	9.5	51
134	Photoelectrochemical-Chemical-Chemical Redox Cycling for Advanced Signal Amplification: Proof-of-Concept Toward Ultrasensitive Photoelectrochemical Bioanalysis. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 12347-12351	7.8	51
133	Cu Nanoclusters-Encapsulated Liposomes: Toward Sensitive Liposomal Photoelectrochemical Immunoassay. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 2749-2755	7.8	49
132	Recent advances in the use of quantum dots for photoelectrochemical bioanalysis. <i>Nanoscale</i> , <b>2016</b> , 8, 17407-17414	7.7	47

131	Photoelectrochemical Bioanalysis Platform of Gold Nanoparticles Equipped Perovskite BiNbOCl. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 7869-7875	7.8	47
130	Photogenerated Hole-Induced Chemical Redox Cycling on BiS/BiSnO Heterojunction: Toward General Amplified Split-Type Photoelectrochemical Immunoassay. <i>ACS Sensors</i> , <b>2018</b> , 3, 1087-1092	9.2	46
129	Bismuthoxyiodide nanoflakes/titania nanotubes arrayed p-n heterojunction and its application for photoelectrochemical bioanalysis. <i>Scientific Reports</i> , <b>2014</b> , 4, 4426	4.9	45
128	Interfacial reaction of intermetallic compounds of ultrasonic-assisted brazed joints between dissimilar alloys of Ti6Al4V and Al4Cu1Mg. <i>Ultrasonics Sonochemistry</i> , <b>2011</b> , 18, 1062-7	8.9	44
127	Surfactant-Free Synthesis of Graphene Oxide Coated Silver Nanoparticles for SERS Biosensing and Intracellular Drug Delivery. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 2748-2753	5.6	44
126	Ag nanoclusters could efficiently quench the photoresponse of CdS quantum dots for novel energy transfer-based photoelectrochemical bioanalysis. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 85, 930-934	11.8	43
125	Dual Functional Molecular Imprinted Polymer-Modified Organometal Lead Halide Perovskite: Synthesis and Application for Photoelectrochemical Sensing of Salicylic Acid. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 9356-9360	7.8	43
124	Liposome-Mediated in Situ Formation of AgI/Ag/BiOI Z-Scheme Heterojunction on Foamed Nickel Electrode: A Proof-of-Concept Study for Cathodic Liposomal Photoelectrochemical Bioanalysis. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 3800-3804	7.8	41
123	Enediol-Ligands-Encapsulated Liposomes Enables Sensitive Immunoassay: A Proof-of-Concept for General Liposomes-Based Photoelectrochemical Bioanalysis. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 6300-6304	7.8	40
122	Semiconducting Organic-Inorganic Nanodots Heterojunctions: Platforms for General Photoelectrochemical Bioanalysis Application. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 3759-3765	7.8	40
121	Cell surface carbohydrates evaluation via a photoelectrochemical approach. <i>Chemical Communications</i> , <b>2012</b> , 48, 9456-8	5.8	40
120	Polymer Dots for Photoelectrochemical Bioanalysis. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 4945-4950	7.8	37
119	Enzyme-Initiated Quinone-Chitosan Conjugation Chemistry: Toward A General in Situ Strategy for High-Throughput Photoelectrochemical Enzymatic Bioanalysis. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 1492-1497	7.8	37
118	Semiconducting CuO Nanotubes: Synthesis, Characterization, and Bifunctional Photocathodic Enzymatic Bioanalysis. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 5439-5444	7.8	36
117	Droplet-based microfluidics systems in biomedical applications. <i>Electrophoresis</i> , <b>2019</b> , 40, 1580-1590	3.6	34
116	Energy Transfer between Semiconducting Polymer Dots and Gold Nanoparticles in a Photoelectrochemical System: A Case Application for Cathodic Bioanalysis. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 4277-4281	7.8	34
115	Recent Progress on Topological Structures in Ferroic Thin Films and Heterostructures. <i>Advanced Materials</i> , <b>2021</b> , 33, e2000857	24	34
114	Organic Photo-Electrochemical Transistor-Based Biosensor: A Proof-of-Concept Study toward Highly Sensitive DNA Detection. <i>Advanced Healthcare Materials</i> , <b>2018</b> , 7, e1800536	10.1	32

113	Observation of the Quantum Anomalous Hall Insulator to Anderson Insulator Quantum Phase Transition and its Scaling Behavior. <i>Physical Review Letters</i> , <b>2016</b> , 117, 126802	7.4	30
112	Wearable Circuits Sintered at Room Temperature Directly on the Skin Surface for Health Monitoring. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 45504-45515	9.5	29
111	A Polymer Dots-Based Photoelectrochemical pH Sensor: Simplicity, High Sensitivity, and Broad-Range pH Measurement. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 8300-8303	7.8	28
110	Activatable QD-Based Near-Infrared Fluorescence Probe for Sensitive Detection and Imaging of DNA. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 25107-25113	9.5	27
109	Three-Dimensional TiO@CuO@Nickel Foam Electrodes: Design, Characterization, and Validation of O-Independent Photocathodic Enzymatic Bioanalysis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 25702-25707	9.5	26
108	Hierarchical CuInS-based heterostructure: Application for photocathodic bioanalysis of sarcosine. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 107, 230-236	11.8	25
107	Dirac-electron-mediated magnetic proximity effect in topological insulator/magnetic insulator heterostructures. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	25
106	Low Ru loading RuO <sub>2</sub> /(Co,Mn) <sub>3</sub> O <sub>4</sub> nanocomposite with modulated electronic structure for efficient oxygen evolution reaction in acid. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 297, 120442	21.8	25
105	Fast electrochemical deposition of CuO/Cu <sub>2</sub> O heterojunction photoelectrode: Preparation and application for rapid cathodic photoelectrochemical detection of L-cysteine. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 290, 312-317	8.5	24
104	3D Semiconducting Polymer/Graphene Networks: Toward Sensitive Photocathodic Enzymatic Bioanalysis. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 9687-9690	7.8	24
103	An Integrated Electrochemical Nanodevice for Intracellular RNA Collection and Detection in Single Living Cell. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 13244-13250	16.4	23
102	Three-Dimensional CdS@Carbon Fiber Networks: Innovative Synthesis and Application as a General Platform for Photoelectrochemical Bioanalysis. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 6419-6423	7.8	21
101	Nanoporous Semiconductor Electrode Captures the Quantum Dots: Toward Ultrasensitive Signal-On Liposomal Photoelectrochemical Immunoassay. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 3795-3799	7.8	21
100	Improved Oxygen Reduction Reaction Activity of Nanostructured CoS <sub>2</sub> through Electrochemical Tuning. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 8605-8614	6.1	21
99	Highly stretchable patternable conductive circuits and wearable strain sensors based on polydimethylsiloxane and silver nanoparticles. <i>Nanotechnology</i> , <b>2019</b> , 30, 185501	3.4	20
98	Ferroelectric Perovskite Oxide@TiO Nanorod Heterostructures: Preparation, Characterization, and Application as a Platform for Photoelectrochemical Bioanalysis. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 10803-10811	7.8	20
97	Gradient Quasi-Liquid Surface Enabled Self-Propulsion of Highly Wetting Liquids. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2008614	15.6	20
96	DNA sequence functionalized with heterogeneous core-satellite nanoassembly for novel energy-transfer-based photoelectrochemical bioanalysis. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 91, 293-298	11.8	18

95	Binding-induced formation of DNAzyme on an Au@Ag nanoparticles/TiO nanorods electrode: Stimulating biocatalytic precipitation amplification for plasmonic photoelectrochemical bioanalysis. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 134, 103-108	11.8	18
94	Ru(NH)/Ru(NH)-Mediated Redox Cycling: Toward Enhanced Triple Signal Amplification for Photoelectrochemical Immunoassay. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 3768-3772	7.8	18
93	Proximity-effect-induced Superconducting Gap in Topological Surface States - A Point Contact Spectroscopy Study of NbSe/BiSe Superconductor-Topological Insulator Heterostructures. <i>Scientific Reports</i> , <b>2017</b> , 7, 7631	4.9	18
92	Robustness of topological surface states against strong disorder observed in Bi <sub>2</sub> Te <sub>3</sub> nanotubes. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	17
91	Boosting the capacity of biomass-based supercapacitors using carbon materials of wood derivatives and redox molecules from plants. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 11839-11852	13	17
90	Engineering the breaking of time-reversal symmetry in gate-tunable hybrid ferromagnet/topological insulator heterostructures. <i>Npj Quantum Materials</i> , <b>2018</b> , 3,	5	17
89	Unconventional planar Hall effect in exchange-coupled topological insulator/ferromagnetic insulator heterostructures. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	16
88	Enhanced organic-inorganic heterojunction of polypyrrole@BiWO <sub>4</sub> : Fabrication and application for sensitive photoelectrochemical immunoassay of creatine kinase-MB. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 140, 111349	11.8	15
87	Gold Nanoparticle-Induced Photocurrent Quenching and Recovery of Polymer Dots: Toward Signal-On Energy-Transfer-Based Photocathodic Bioanalysis of Telomerase Activity in Cell Extracts. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 6403-6407	7.8	15
86	Redox-Sensitive Hyaluronic Acid Polymer Prodrug Nanoparticles for Enhancing Intracellular Drug Self-Delivery and Targeted Cancer Therapy. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 4106-4115	5.5	15
85	Interface-induced sign reversal of the anomalous Hall effect in magnetic topological insulator heterostructures. <i>Nature Communications</i> , <b>2021</b> , 12, 79	17.4	15
84	Silver-Nanowire Mesh-Structured Transparent Conductive Film with Improved Transparent Conductive Properties and Mechanical Performance. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1900194	6.8	14
83	Multi-layer silver nanowire/polyethylene terephthalate mesh structure for highly efficient transparent electromagnetic interference shielding. <i>Nanotechnology</i> , <b>2020</b> , 31, 185303	3.4	14
82	A flexible and conductive metallic paper-based current collector with energy storage capability in supercapacitor electrodes. <i>Dalton Transactions</i> , <b>2019</b> , 48, 7659-7665	4.3	13
81	Efficient CsPbBr <sub>3</sub> Nanoplatelet-Based Blue Light-Emitting Diodes Enabled by Engineered Surface Ligands. <i>ACS Energy Letters</i> , <b>2022</b> , 7, 1137-1145	20.1	13
80	Self-Assembled Peptide Nanostructures for Photoelectrochemical Bioanalysis Application: A Proof-of-Concept Study. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 12606-12610	7.8	12
79	Enhanced Anodic Electrochemiluminescence from Co <sup>2+</sup> -Doped CdSe Nanocrystals for Alkaline Phosphatase Assay. <i>Electroanalysis</i> , <b>2013</b> , 25, 951-958	3	12
78	Stretchable multifunctional dielectric nanocomposites based on polydimethylsiloxane mixed with metal nanoparticles. <i>Materials Research Express</i> , <b>2020</b> , 7, 015007	1.7	12

77	Bulk Fermi surface of the layered superconductor TaSe <sub>3</sub> with three-dimensional strong topological state. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	12
76	Enhanced-performance flexible supercapacitor based on Pt-doped MoS <sub>2</sub> . <i>Materials Letters</i> , <b>2019</b> , 252, 173-177	3.3	11
75	Preparation of an AgI/CuBiO heterojunction on a fluorine-doped tin oxide electrode for cathodic photoelectrochemical assays: application to the detection of L-cysteine. <i>Mikrochimica Acta</i> , <b>2019</b> , 186, 284	5.8	11
74	Pressure-induced superconductivity and topological phase transitions in the topological nodal-line semimetal SrAs <sub>3</sub> . <i>Npj Quantum Materials</i> , <b>2020</b> , 5,	5	11
73	Enhanced Electrical and Mechanical Properties of a Printed Bimodal Silver Nanoparticle Ink for Flexible Electronics. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2018</b> , 215, 1800007	1.6	11
72	Regulating Light-Sensitive Gate of Organic Photoelectrochemical Transistor toward Sensitive Biodetection at Zero Gate Bias. <i>Small Structures</i> , 2100087	8.7	11
71	An Integrated Photoelectrochemical Nanotool for Intracellular Drug Delivery and Evaluation of Treatment Effect. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 25762-25765	16.4	11
70	Target-Triggered Assembly in a Nanopipette for Electrochemical Single-Cell Analysis. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 1200-1208	7.8	10
69	Facile growth of ZnO nanosheets standing on Ni foam as binder-free anodes for lithium ion batteries.. <i>RSC Advances</i> , <b>2019</b> , 9, 19253-19260	3.7	9
68	Magnetic particles and cadmium sulfide nanoparticles tagging for signal-amplifying detection of nucleic acids. <i>Science China Chemistry</i> , <b>2011</b> , 54, 1304-1310	7.9	9
67	Three-dimensional CdS nanosheet-enwrapped carbon fiber framework: Towards split-type CuO-mediated photoelectrochemical immunoassay. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 148, 111836	11.8	9
66	Boosting the Efficiency of NiO-Based Perovskite Light-Emitting Diodes by Interface Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 53528-53536	9.5	9
65	Ultrasound-assisted extraction of bioactive alkaloids from <i>Phellodendri amurensis</i> cortex using deep eutectic solvent aqueous solutions. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 9172-9178	3.6	9
64	A Supersmall Single-Cell Nanosensor for Intracellular K <sup>+</sup> Detection. <i>CCS Chemistry</i> , <b>2021</b> , 3, 2359-2367	7.2	9
63	Tyrosinase-encapsulated liposomes: Toward enzyme-induced in situ sensitization of semiconductor for sensitive photoelectrochemical immunoassay. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 136, 128-131	11.8	8
62	Establishing Interfacial Charge-Transfer Transitions on Ferroelectric Perovskites: An Efficient Route for Photoelectrochemical Bioanalysis. <i>ACS Sensors</i> , <b>2020</b> , 5, 3827-3832	9.2	8
61	Integrated Resistive-Capacitive Strain Sensors Based on Polymer Nanoparticle Composites. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 4357-4366	5.6	8
60	A dual responsive hyaluronic acid graft poly(ionic liquid) block copolymer micelle for an efficient CD44-targeted antitumor drug delivery. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 12275-12282	3.6	8

59	Photoelectrochemical Probing of Cellular Interfaces and Evaluation of Cellular H <sub>2</sub> S Production Based on In Situ-Generated CdS-Enhanced TiO <sub>2</sub> Nanotube Heterostructures. <i>ChemElectroChem</i> , <b>2017</b> , 4, 1011-1015	4.3	7
58	Ultrasonic-accelerated metallurgical reaction of Sn/Ni composite solder: Principle, kinetics, microstructure, and joint properties. <i>Ultrasonics Sonochemistry</i> , <b>2020</b> , 66, 105090	8.9	7
57	Vortex phase transitions in monolayer FeSe film on SrTiO <sub>3</sub> . <i>2D Materials</i> , <b>2016</b> , 3, 024006	5.9	7
56	Stretchable and conductive composites film with efficient electromagnetic interference shielding and absorptivity. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 8576-8590	4.3	7
55	The de Haas-van Alphen quantum oscillations in a three-dimensional Dirac semimetal TiSb <sub>2</sub> . <i>Applied Physics Letters</i> , <b>2020</b> , 116, 142103	3.4	6
54	Target-induced formation of multiple DNazymes in solid-state nanochannels: Toward innovative photoelectrochemical probing of telomerase activity. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 142, 111564	11.8	6
53	Multifunctional Hydrogel Hybrid-Gated Organic Photoelectrochemical Transistor for Biosensing. <i>Advanced Functional Materials</i> , 2109046	15.6	6
52	Redox-Sensitive Polymer Micelles Based on CD44 and Folic Acid Receptor for Intracellular Drug Delivery and Drug Controlled Release in Cancer Therapy.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 4222-4232	4.1	5
51	Unique Redox Reaction between CuO Photocathode and Cysteine: Insight into the Mechanism for Cathodic Photoelectrochemical Bioanalysis.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 2703-2707	4.1	5
50	Low-temperature sintering of silver nanoparticles on paper by surface modification. <i>Nanotechnology</i> , <b>2019</b> , 30, 505303	3.4	5
49	Electric Field Tuning of Interlayer Coupling in Noncentrosymmetric 3R-MoS <sub>2</sub> with an Electric Double Layer Interface. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 46900-46907	9.5	5
48	Development of a Ni-Doped VAl Topological Semimetal with a Significantly Enhanced HER Catalytic Performance. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 3740-3748	6.4	5
47	Paper Information Recording and Security Protection Using Invisible Ink and Artificial Intelligence. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 19443-19449	9.5	5
46	A Practical Electrochemical Nanotool for Facile Quantification of Amino Acids in Single Cell. <i>Small</i> , <b>2021</b> , 17, e2100503	11	5
45	Bipolar Modulation of the Ionic Circuit for Generic Organic Photoelectrochemical Transistor Logic and Sensor. <i>Advanced Optical Materials</i> , 2102687	8.1	5
44	Ionic liquids-filled patterned cavities improve transmittance of transparent and stretchable electronic polydimethylsiloxane films. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 11134-11144	4.3	4
43	Synthesis and Properties of Azide-Functionalized Ionic Liquids as Attractive Hypergolic Fuels. <i>Chemistry - an Asian Journal</i> , <b>2019</b> , 14, 2122-2128	4.5	4
42	de Haas-van Alphen Quantum Oscillations in BaSn <sub>3</sub> Superconductor with Multiple Dirac Fermions. <i>Chinese Physics Letters</i> , <b>2020</b> , 37, 087101	1.8	4



41	High-performance joining technology for aluminium matrix composites using ultrasonic-assisted brazing. <i>Materials Science and Technology</i> , <b>2018</b> , 34, 660-663	1.5	4
40	Magnetotransport and ab initio calculation studies on the layered semimetal CaAl <sub>2</sub> Si <sub>2</sub> hosting multiple nontrivial topological states. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	4
39	Fabricating flexible wafer-size inorganic semiconductor devices. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 1915-1922	7.1	4
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37	Photocontrolled Nanopipette Biosensor for ATP Gradient Electroanalysis of Single Living Cells. <i>ACS Sensors</i> , <b>2021</b> , 6, 1529-1535	9.2	4
36	A universal strategy for ultra-flexible inorganic all-solid-state supercapacitors. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 852, 156613	5.7	4
35	Highly flexible electromagnetic interference shielding films based on ultrathin Ni/Ag composites on paper substrates. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 5570-5580	4.3	4
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33	Comprehensive magnetic phase diagrams of the polar metal Ca <sub>3</sub> (Ru <sub>0.95</sub> Fe <sub>0.05</sub> ) <sub>2</sub> O <sub>7</sub> . <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	3
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23	In situ chemical redox and functionalization of graphene oxide: toward new cathodic photoelectrochemical bioanalysis. <i>Chemical Communications</i> , <b>2019</b> , 55, 10072-10075	5.8	2
22	Self-assembly of nickel: from nanoparticles to foils with tunable magnetic properties. <i>CrystEngComm</i> , <b>2019</b> , 21, 5317-5321	3.3	2
21	Domain-Engineered Flexible Ferrite Membrane for Novel Machine Learning Based Multimodal Flexible Sensing. <i>Advanced Materials Interfaces</i> , 2101989	4.6	1
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18	Rational Utilization of Photoelectrochemistry of Photosystem II for Self-Powered Photocathodic Detection of MicroRNA in Cells. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 15761-15767	7.8	1
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4	Recent Advances of Nanostructured Materials for Photoelectrochemical Bioanalysis. <i>Chemosensors</i> , <b>2022</b> , 10, 14	4	○
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