

Wei-Wei Zhao

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.

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	Ascorbic acid-mediated organic photoelectrochemical transistor sensing strategy for highly sensitive detection of heart-type fatty acid binding protein.. <i>Biosensors and Bioelectronics</i> , 2022 , 201, 113958	11.8	3
165	Fabricating different patterns of flexible inorganic semiconductor films via colloidal ink printing on textiles. <i>Materials Letters</i> , 2022 , 307, 131079	3.3	1
164	Highly stretchable and sensitive strain sensors with ginkgo-like sandwich architectures. <i>Nanoscale Advances</i> , 2022 , 4, 1681-1693	5.1	1
163	Efficient CsPbBr ₃ Nanoplatelet-Based Blue Light-Emitting Diodes Enabled by Engineered Surface Ligands. <i>ACS Energy Letters</i> , 2022 , 7, 1137-1145	20.1	13
162	Hybridization chain reaction for regulating surface capacitance of organic photoelectrochemical transistor toward sensitive miRNA detection.. <i>Biosensors and Bioelectronics</i> , 2022 , 209, 114224	11.8	3
161	Recent Advances of Nanostructured Materials for Photoelectrochemical Bioanalysis. <i>Chemosensors</i> , 2022 , 10, 14	4	0
160	Light-Fueled Organic Photoelectrochemical Transistor for Probing Membrane Protein in an H-Cell. <i>Advanced Materials Interfaces</i> , 2022 , 9, 2102040	4.6	0
159	Rational Utilization of Photoelectrochemistry of Photosystem II for Self-Powered Photocathodic Detection of MicroRNA in Cells. <i>Analytical Chemistry</i> , 2021 , 93, 15761-15767	7.8	1
158	Magnetism-induced topological transition in EuAs. <i>Nature Communications</i> , 2021 , 12, 6970	17.4	1
157	Strain engineering of quasi-1D layered TiS ₃ nanosheets toward giant anisotropic Raman and piezoresistance responses. <i>Applied Physics Letters</i> , 2021 , 119, 201903	3.4	1
156	Photoemission Spectroscopic Evidence of Multiple Dirac Cones in Superconducting BaSn ₃ . <i>Chinese Physics Letters</i> , 2021 , 38, 107403	1.8	1
155	Development of a Ni-Doped VAl Topological Semimetal with a Significantly Enhanced HER Catalytic Performance. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 3740-3748	6.4	5
154	Multiple Weyl fermions in the noncentrosymmetric semimetal LaAlSi. <i>Physical Review B</i> , 2021 , 103,	3.3	4
153	Twin Nanopipettes for Real-Time Electrochemical Monitoring of Cytoplasmic Microviscosity at a Single-Cell Level. <i>Analytical Chemistry</i> , 2021 , 93, 6831-6838	7.8	0
152	Photocontrolled Nanopipette Biosensor for ATP Gradient Electroanalysis of Single Living Cells. <i>ACS Sensors</i> , 2021 , 6, 1529-1535	9.2	4
151	Paper Information Recording and Security Protection Using Invisible Ink and Artificial Intelligence. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 19443-19449	9.5	5
150	A Practical Electrochemical Nanotool for Facile Quantification of Amino Acids in Single Cell. <i>Small</i> , 2021 , 17, e2100503	11	5

149	Electrostatic and electrochemical charging mechanisms for electric-double-layer gating media based on a crystalline LaF ₃ solid electrolyte. <i>APL Materials</i> , 2021 , 9, 061107	5.7	1
148	Enzymatic photoelectrochemical bioassay based on hierarchical CdS/NiO heterojunction for glucose determination. <i>Mikrochimica Acta</i> , 2021 , 188, 243	5.8	3
147	Target-Triggered Assembly in a Nanopipette for Electrochemical Single-Cell Analysis. <i>Analytical Chemistry</i> , 2021 , 93, 1200-1208	7.8	10
146	An Integrated Electrochemical Nanodevice for Intracellular RNA Collection and Detection in Single Living Cell. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 13244-13250	16.4	23
145	A universal strategy for ultra-flexible inorganic all-solid-state supercapacitors. <i>Journal of Alloys and Compounds</i> , 2021 , 852, 156613	5.7	4
144	Recent Progress on Topological Structures in Ferroic Thin Films and Heterostructures. <i>Advanced Materials</i> , 2021 , 33, e2000857	24	34
143	Interface-induced sign reversal of the anomalous Hall effect in magnetic topological insulator heterostructures. <i>Nature Communications</i> , 2021 , 12, 79	17.4	15
142	3D NiO nanoflakes/carbon fiber meshwork: Facile preparation and utilization as general platform for photocathodic bioanalysis. <i>Analytica Chimica Acta</i> , 2021 , 1143, 173-180	6.6	3
141	Butyrylcholinesterase nanodepots with enhanced prophylactic and therapeutic performance for acute organophosphorus poisoning management. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 1877-1887	7.3	1
140	A facile fabrication of conjugated fluorescent nanoparticles and micro-scale patterned encryption high resolution inkjet printing. <i>Nanoscale</i> , 2021 , 13, 14337-14345	7.7	1
139	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> , 2021 , 9, 11839-11852	13	17
138	A Supersmall Single-Cell Nanosensor for Intracellular K ⁺ Detection. <i>CCS Chemistry</i> , 2021 , 3, 2359-2367	7.2	9
137	Investigation of phonon modes in 2H-TaX ₂ (X = S/Se) flakes with electrostatic doping. <i>Journal of Applied Physics</i> , 2021 , 130, 105302	2.5	0
136	An Integrated Photoelectrochemical Nanotool for Intracellular Drug Delivery and Evaluation of Treatment Effect. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25762-25765	16.4	11
135	Low Ru loading RuO ₂ /(Co,Mn) ₃ O ₄ nanocomposite with modulated electronic structure for efficient oxygen evolution reaction in acid. <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120442	21.8	25
134	Gradient Quasi-Liquid Surface Enabled Self-Propulsion of Highly Wetting Liquids. <i>Advanced Functional Materials</i> , 2021 , 31, 2008614	15.6	20
133	Highly flexible electromagnetic interference shielding films based on ultrathin Ni/Ag composites on paper substrates. <i>Journal of Materials Science</i> , 2021 , 56, 5570-5580	4.3	4
132	Establishing Interfacial Charge-Transfer Transitions on Ferroelectric Perovskites: An Efficient Route for Photoelectrochemical Bioanalysis. <i>ACS Sensors</i> , 2020 , 5, 3827-3832	9.2	8

131	de Haas-van Alphen Quantum Oscillations in BaSn ₃ Superconductor with Multiple Dirac Fermions. <i>Chinese Physics Letters</i> , 2020 , 37, 087101	1.8	4
130	Redox-Sensitive Hyaluronic Acid Polymer Prodrug Nanoparticles for Enhancing Intracellular Drug Self-Delivery and Targeted Cancer Therapy. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 4106-4115	5.5	15
129	Pressure-induced superconductivity and topological phase transitions in the topological nodal-line semimetal SrAs ₃ . <i>Npj Quantum Materials</i> , 2020 , 5,	5	11
128	Multi-layer silver nanowire/polyethylene terephthalate mesh structure for highly efficient transparent electromagnetic interference shielding. <i>Nanotechnology</i> , 2020 , 31, 185303	3.4	14
127	Boosting the biocatalytic precipitation with enzyme-loaded liposomes: Toward a general platform for amplified photoelectrochemical immunoassay. <i>Analytica Chimica Acta</i> , 2020 , 1115, 1-6	6.6	2
126	Ultrasonic-accelerated metallurgical reaction of Sn/Ni composite solder: Principle, kinetics, microstructure, and joint properties. <i>Ultrasonics Sonochemistry</i> , 2020 , 66, 105090	8.9	7
125	Integrated Resistive-Capacitive Strain Sensors Based on Polymer Nanoparticle Composites. <i>ACS Applied Nano Materials</i> , 2020 , 3, 4357-4366	5.6	8
124	The de Haas-van Alphen quantum oscillations in a three-dimensional Dirac semimetal TiSb ₂ . <i>Applied Physics Letters</i> , 2020 , 116, 142103	3.4	6
123	Magnetotransport and ab initio calculation studies on the layered semimetal CaAl ₂ Si ₂ hosting multiple nontrivial topological states. <i>Physical Review B</i> , 2020 , 101,	3.3	4
122	CdS Quantum Dots Modified Photoelectrochemical Biosensor for TATA-Binding Protein Probing. <i>Methods in Molecular Biology</i> , 2020 , 2135, 237-247	1.4	1
121	Recent Advances in Electrochemical Sensor and Biosensors for Environmental Contaminants. <i>Nanotechnology in the Life Sciences</i> , 2020 , 1-31	1.1	1
120	Three-dimensional CdS nanosheet-enwrapped carbon fiber framework: Towards split-type CuO-mediated photoelectrochemical immunoassay. <i>Biosensors and Bioelectronics</i> , 2020 , 148, 111836	11.8	9
119	Sensitive Detection of Caffeic Acid and Rutin via the Enhanced Anodic Electrochemiluminescence Signal of Luminol. <i>Analytical Sciences</i> , 2020 , 36, 311-316	1.7	1
118	Fabricating flexible wafer-size inorganic semiconductor devices. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 1915-1922	7.1	4
117	Stretchable multifunctional dielectric nanocomposites based on polydimethylsiloxane mixed with metal nanoparticles. <i>Materials Research Express</i> , 2020 , 7, 015007	1.7	12
116	Boosting the Efficiency of NiO-Based Perovskite Light-Emitting Diodes by Interface Engineering. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 53528-53536	9.5	9
115	Electric Field Tuning of Interlayer Coupling in Noncentrosymmetric 3R-MoS ₂ with an Electric Double Layer Interface. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 46900-46907	9.5	5
114	Wearable Circuits Sintered at Room Temperature Directly on the Skin Surface for Health Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 45504-45515	9.5	29

113	Bulk Fermi surface of the layered superconductor TaSe ₃ with three-dimensional strong topological state. <i>Physical Review B</i> , 2020 , 101,	3.3	12
112	Stretchable and conductive composites film with efficient electromagnetic interference shielding and absorptivity. <i>Journal of Materials Science</i> , 2020 , 55, 8576-8590	4.3	7
111	Ultrasound-assisted extraction of bioactive alkaloids from <i>Phellodendri amurensis</i> cortex using deep eutectic solvent aqueous solutions. <i>New Journal of Chemistry</i> , 2020 , 44, 9172-9178	3.6	9
110	NiCo ₂ O ₄ /C Core-Shell Nanoneedles on Ni Foam for All-Solid-State Asymmetric Supercapacitors. <i>ChemistrySelect</i> , 2020 , 5, 5501-5506	1.8	3
109	Nano oxide intermediate layer assisted room temperature sintering of ink-jet printed silver nanoparticles pattern. <i>Nanotechnology</i> , 2019 , 30, 495302	3.4	3
108	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> , 2019 , 2, 4222-4232	4.1	5
107	Self-Assembled Peptide Nanostructures for Photoelectrochemical Bioanalysis Application: A Proof-of-Concept Study. <i>Analytical Chemistry</i> , 2019 , 91, 12606-12610	7.8	12
106	Highly stretchable patternable conductive circuits and wearable strain sensors based on polydimethylsiloxane and silver nanoparticles. <i>Nanotechnology</i> , 2019 , 30, 185501	3.4	20
105	Enhanced organic-inorganic heterojunction of polypyrrole@BiWO ₆ : Fabrication and application for sensitive photoelectrochemical immunoassay of creatine kinase-MB. <i>Biosensors and Bioelectronics</i> , 2019 , 140, 111349	11.8	15
104	Ionic liquids-filled patterned cavities improve transmittance of transparent and stretchable electronic polydimethylsiloxane films. <i>Journal of Materials Science</i> , 2019 , 54, 11134-11144	4.3	4
103	Three-Dimensional TiO ₂ @CuO@Nickel Foam Electrodes: Design, Characterization, and Validation of O-Independent Photocathodic Enzymatic Bioanalysis. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 25702-25707	9.5	26
102	Unique Redox Reaction between CuO Photocathode and Cysteine: Insight into the Mechanism for Cathodic Photoelectrochemical Bioanalysis.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 2703-2707	4.1	5
101	Facile growth of ZnO nanosheets standing on Ni foam as binder-free anodes for lithium ion batteries.. <i>RSC Advances</i> , 2019 , 9, 19253-19260	3.7	9
100	Enhanced-performance flexible supercapacitor based on Pt-doped MoS ₂ . <i>Materials Letters</i> , 2019 , 252, 173-177	3.3	11
99	Comprehensive magnetic phase diagrams of the polar metal Ca ₃ (Ru _{0.95} Fe _{0.05}) ₂ O ₇ . <i>Physical Review B</i> , 2019 , 99,	3.3	3
98	Silver-Nanowire Mesh-Structured Transparent Conductive Film with Improved Transparent Conductive Properties and Mechanical Performance. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900194	6.8	14
97	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> , 2019 , 91, 6403-6407	7.8	15
96	A flexible and conductive metallic paper-based current collector with energy storage capability in supercapacitor electrodes. <i>Dalton Transactions</i> , 2019 , 48, 7659-7665	4.3	13

95	Three-Dimensional CdS@Carbon Fiber Networks: Innovative Synthesis and Application as a General Platform for Photoelectrochemical Bioanalysis. <i>Analytical Chemistry</i> , 2019 , 91, 6419-6423	7.8	21
94	Tyrosinase-encapsulated liposomes: Toward enzyme-induced in situ sensitization of semiconductor for sensitive photoelectrochemical immunoassay. <i>Biosensors and Bioelectronics</i> , 2019 , 136, 128-131	11.8	8
93	Dirac fermions in the layered titanium-based oxynictide superconductor BaTi ₂ Bi ₂ O. <i>Physical Review B</i> , 2019 , 99,	3.3	3
92	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> , 2019 , 186, 284	5.8	11
91	Droplet-based microfluidics systems in biomedical applications. <i>Electrophoresis</i> , 2019 , 40, 1580-1590	3.6	34
90	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> , 2019 , 91, 3800-3804	7.8	41
89	Broken cubic symmetry driven co-emergence of type-I and type-II Dirac points in topological crystalline insulator ThTaN. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 295501	1.8	2
88	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> , 2019 , 134, 103-108	11.8	18
87	Fast electrochemical deposition of CuO/Cu ₂ O heterojunction photoelectrode: Preparation and application for rapid cathodic photoelectrochemical detection of L-cysteine. <i>Sensors and Actuators B: Chemical</i> , 2019 , 290, 312-317	8.5	24
86	Synthesis and Properties of Azide-Functionalized Ionic Liquids as Attractive Hypergolic Fuels. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 2122-2128	4.5	4
85	Nanoporous Semiconductor Electrode Captures the Quantum Dots: Toward Ultrasensitive Signal-On Liposomal Photoelectrochemical Immunoassay. <i>Analytical Chemistry</i> , 2019 , 91, 3795-3799	7.8	21
84	Ru(NH)/Ru(NH)-Mediated Redox Cycling: Toward Enhanced Triple Signal Amplification for Photoelectrochemical Immunoassay. <i>Analytical Chemistry</i> , 2019 , 91, 3768-3772	7.8	18
83	Target-induced formation of multiple DNAzymes in solid-state nanochannels: Toward innovative photoelectrochemical probing of telomerase activity. <i>Biosensors and Bioelectronics</i> , 2019 , 142, 111564	11.8	6
82	Dual Functional Molecular Imprinted Polymer-Modified Organometal Lead Halide Perovskite: Synthesis and Application for Photoelectrochemical Sensing of Salicylic Acid. <i>Analytical Chemistry</i> , 2019 , 91, 9356-9360	7.8	43
81	In situ chemical redox and functionalization of graphene oxide: toward new cathodic photoelectrochemical bioanalysis. <i>Chemical Communications</i> , 2019 , 55, 10072-10075	5.8	2
80	Self-assembly of nickel: from nanoparticles to foils with tunable magnetic properties. <i>CrystEngComm</i> , 2019 , 21, 5317-5321	3.3	2
79	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> , 2019 , 43, 12275-12282	3.6	8
78	Improved Oxygen Reduction Reaction Activity of Nanostructured CoS ₂ through Electrochemical Tuning. <i>ACS Applied Energy Materials</i> , 2019 , 2, 8605-8614	6.1	21

77	Low-temperature sintering of silver nanoparticles on paper by surface modification. <i>Nanotechnology</i> , 2019 , 30, 505303	3.4	5
76	An invisible private 2D barcode design and implementation with tunable fluorescent nanoparticles.. <i>RSC Advances</i> , 2019 , 9, 37292-37299	3.7	3
75	Single-directional dynamic equilibrium between precipitation and dissolution in solid-aluminum/melted-tin system. <i>Materials Letters</i> , 2019 , 236, 611-613	3.3	0
74	Hierarchical CuInS-based heterostructure: Application for photocathodic bioanalysis of sarcosine. <i>Biosensors and Bioelectronics</i> , 2018 , 107, 230-236	11.8	25
73	High-performance joining technology for aluminium matrix composites using ultrasonic-assisted brazing. <i>Materials Science and Technology</i> , 2018 , 34, 660-663	1.5	4
72	Semiconducting Organic-Inorganic Nanodots Heterojunctions: Platforms for General Photoelectrochemical Bioanalysis Application. <i>Analytical Chemistry</i> , 2018 , 90, 3759-3765	7.8	40
71	Enzyme-Initiated Quinone-Chitosan Conjugation Chemistry: Toward A General in Situ Strategy for High-Throughput Photoelectrochemical Enzymatic Bioanalysis. <i>Analytical Chemistry</i> , 2018 , 90, 1492-1497	7.8	37
70	Cu Nanoclusters-Encapsulated Liposomes: Toward Sensitive Liposomal Photoelectrochemical Immunoassay. <i>Analytical Chemistry</i> , 2018 , 90, 2749-2755	7.8	49
69	Nanochannels Photoelectrochemical Biosensor. <i>Analytical Chemistry</i> , 2018 , 90, 2341-2347	7.8	56
68	Bismuth Oxyiodide Couples with Glucose Oxidase: A Special Synergized Dual-Catalysis Mechanism for Photoelectrochemical Enzymatic Bioanalysis. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 3372-3379	9.5	61
67	Semiconducting CuO Nanotubes: Synthesis, Characterization, and Bifunctional Photocathodic Enzymatic Bioanalysis. <i>Analytical Chemistry</i> , 2018 , 90, 5439-5444	7.8	36
66	Direct imaging of electron transfer and its influence on superconducting pairing at FeSe/SrTiO interface. <i>Science Advances</i> , 2018 , 4, eaao2682	14.3	51
65	Energy Transfer between Semiconducting Polymer Dots and Gold Nanoparticles in a Photoelectrochemical System: A Case Application for Cathodic Bioanalysis. <i>Analytical Chemistry</i> , 2018 , 90, 4277-4281	7.8	34
64	A Polymer Dots-Based Photoelectrochemical pH Sensor: Simplicity, High Sensitivity, and Broad-Range pH Measurement. <i>Analytical Chemistry</i> , 2018 , 90, 8300-8303	7.8	28
63	3D Semiconducting Polymer/Graphene Networks: Toward Sensitive Photocathodic Enzymatic Bioanalysis. <i>Analytical Chemistry</i> , 2018 , 90, 9687-9690	7.8	24
62	Organic Photo-Electrochemical Transistor-Based Biosensor: A Proof-of-Concept Study toward Highly Sensitive DNA Detection. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1800536	10.1	32
61	Ferroelectric Perovskite Oxide@TiO Nanorod Heterostructures: Preparation, Characterization, and Application as a Platform for Photoelectrochemical Bioanalysis. <i>Analytical Chemistry</i> , 2018 , 90, 10803-10811	7.8	20
60	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> , 2018 , 215, 1800007	1.6	11

59	Photoelectrochemical Immunoassays. <i>Analytical Chemistry</i> , 2018 , 90, 615-627	7.8	181
58	Bilayer Tubular Micromotors for Simultaneous Environmental Monitoring and Remediation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 35099-35107	9.5	51
57	Photoelectrochemical-Chemical-Chemical Redox Cycling for Advanced Signal Amplification: Proof-of-Concept Toward Ultrasensitive Photoelectrochemical Bioanalysis. <i>Analytical Chemistry</i> , 2018 , 90, 12347-12351	7.8	51
56	Engineering the breaking of time-reversal symmetry in gate-tunable hybrid ferromagnet/topological insulator heterostructures. <i>Npj Quantum Materials</i> , 2018 , 3,	5	17
55	Unconventional planar Hall effect in exchange-coupled topological insulator/ferromagnetic insulator heterostructures. <i>Physical Review B</i> , 2018 , 98,	3.3	16
54	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> , 2018 , 90, 11892-11898	7.8	74
53	Photogenerated Hole-Induced Chemical Redox Cycling on BiS/BiSnO Heterojunction: Toward General Amplified Split-Type Photoelectrochemical Immunoassay. <i>ACS Sensors</i> , 2018 , 3, 1087-1092	9.2	46
52	Surfactant-Free Synthesis of Graphene Oxide Coated Silver Nanoparticles for SERS Biosensing and Intracellular Drug Delivery. <i>ACS Applied Nano Materials</i> , 2018 , 1, 2748-2753	5.6	44
51	Photoelectrochemical Probing of Cellular Interfaces and Evaluation of Cellular H ₂ S Production Based on In Situ-Generated CdS-Enhanced TiO ₂ Nanotube Heterostructures. <i>ChemElectroChem</i> , 2017 , 4, 1011-1015	4.3	7
50	Quantum-dots-based photoelectrochemical bioanalysis highlighted with recent examples. <i>Biosensors and Bioelectronics</i> , 2017 , 94, 207-218	11.8	59
49	Enediol-Ligands-Encapsulated Liposomes Enables Sensitive Immunoassay: A Proof-of-Concept for General Liposomes-Based Photoelectrochemical Bioanalysis. <i>Analytical Chemistry</i> , 2017 , 89, 6300-6304	7.8	40
48	Polymer Dots for Photoelectrochemical Bioanalysis. <i>Analytical Chemistry</i> , 2017 , 89, 4945-4950	7.8	37
47	DNA sequence functionalized with heterogeneous core-satellite nanoassembly for novel energy-transfer-based photoelectrochemical bioanalysis. <i>Biosensors and Bioelectronics</i> , 2017 , 91, 293-298	11.8	18
46	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> , 2017 , 7, 7631	4.9	18
45	Dirac-electron-mediated magnetic proximity effect in topological insulator/magnetic insulator heterostructures. <i>Physical Review B</i> , 2017 , 96,	3.3	25
44	Photoelectrochemical Bioanalysis Platform of Gold Nanoparticles Equipped Perovskite BiNbOCl. <i>Analytical Chemistry</i> , 2017 , 89, 7869-7875	7.8	47
43	Activatable QD-Based Near-Infrared Fluorescence Probe for Sensitive Detection and Imaging of DNA. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 25107-25113	9.5	27
42	Hybrid PbS Quantum Dot/Nanoporous NiO Film Nanostructure: Preparation, Characterization, and Application for a Self-Powered Cathodic Photoelectrochemical Biosensor. <i>Analytical Chemistry</i> , 2017 , 89, 8070-8078	7.8	121

41	Photoelectrochemical enzymatic biosensors. <i>Biosensors and Bioelectronics</i> , 2017 , 92, 294-304	11.8	171
40	Recent advances in the use of quantum dots for photoelectrochemical bioanalysis. <i>Nanoscale</i> , 2016 , 8, 17407-17414	7.7	47
39	Observation of the Quantum Anomalous Hall Insulator to Anderson Insulator Quantum Phase Transition and its Scaling Behavior. <i>Physical Review Letters</i> , 2016 , 117, 126802	7.4	30
38	Robustness of topological surface states against strong disorder observed in Bi ₂ Te ₃ nanotubes. <i>Physical Review B</i> , 2016 , 93,	3.3	17
37	Ag nanoclusters could efficiently quench the photoresponse of CdS quantum dots for novel energy transfer-based photoelectrochemical bioanalysis. <i>Biosensors and Bioelectronics</i> , 2016 , 85, 930-934	11.8	43
36	Photoelectrochemical detection of metal ions. <i>Analyst, The</i> , 2016 , 141, 4262-71	5	62
35	Correlated metals as transparent conductors. <i>Nature Materials</i> , 2016 , 15, 204-10	27	203
34	Simultaneous Photoelectrochemical Immunoassay of Dual Cardiac Markers Using Specific Enzyme Tags: A Proof of Principle for Multiplexed Bioanalysis. <i>Analytical Chemistry</i> , 2016 , 88, 1990-4	7.8	83
33	Protein Binding Bends the Gold Nanoparticle Capped DNA Sequence: Toward Novel Energy-Transfer-Based Photoelectrochemical Protein Detection. <i>Analytical Chemistry</i> , 2016 , 88, 3864-71	7.8	51
32	Ising pairing in superconducting NbSe ₂ atomic layers. <i>Nature Physics</i> , 2016 , 12, 139-143	16.2	534
31	Vortex phase transitions in monolayer FeSe film on SrTiO ₃ . <i>2D Materials</i> , 2016 , 3, 024006	5.9	7
30	Invoking Direct Exciton-Plasmon Interactions by Catalytic Ag Deposition on Au Nanoparticles: Photoelectrochemical Bioanalysis with High Efficiency. <i>Analytical Chemistry</i> , 2016 , 88, 4183-7	7.8	54
29	Alkaline Phosphatase Tagged Antibodies on Gold Nanoparticles/TiO ₂ Nanotubes Electrode: A Plasmonic Strategy for Label-Free and Amplified Photoelectrochemical Immunoassay. <i>Analytical Chemistry</i> , 2016 , 88, 5626-30	7.8	88
28	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> , 2015 , 114, 146802	7.4	63
27	High-precision realization of robust quantum anomalous Hall state in a hard ferromagnetic topological insulator. <i>Nature Materials</i> , 2015 , 14, 473-7	27	581
26	Photoelectrochemical bioanalysis: the state of the art. <i>Chemical Society Reviews</i> , 2015 , 44, 729-41	58.5	580
25	Zero-Field Dissipationless Chiral Edge Transport and the Nature of Dissipation in the Quantum Anomalous Hall State. <i>Physical Review Letters</i> , 2015 , 115, 057206	7.4	76
24	DNA Labeling Generates a Unique Amplification Probe for Sensitive Photoelectrochemical Immunoassay of HIV-1 p24 Antigen. <i>Analytical Chemistry</i> , 2015 , 87, 5496-9	7.8	60

23	Quantum dots: electrochemiluminescent and photoelectrochemical bioanalysis. <i>Analytical Chemistry</i> , 2015 , 87, 9520-31	7.8	179
22	Bismuthoxyiodide nanoflakes/titania nanotubes arrayed p-n heterojunction and its application for photoelectrochemical bioanalysis. <i>Scientific Reports</i> , 2014 , 4, 4426	4.9	45
21	Photoelectrochemical DNA biosensors. <i>Chemical Reviews</i> , 2014 , 114, 7421-41	68.1	579
20	A general strategy for photoelectrochemical immunoassay using an enzyme label combined with a CdS quantum dot/TiO ₂ nanoparticle composite electrode. <i>Analytical Chemistry</i> , 2014 , 86, 11513-6	7.8	75
19	In situ modification of a semiconductor surface by an enzymatic process: a general strategy for photoelectrochemical bioanalysis. <i>Analytical Chemistry</i> , 2013 , 85, 8503-6	7.8	63
18	Enhanced Anodic Electrochemiluminescence from Co ²⁺ -Doped CdSe Nanocrystals for Alkaline Phosphatase Assay. <i>Electroanalysis</i> , 2013 , 25, 951-958	3	12
17	Acetylcholine esterase antibodies on BiOI nanoflakes/TiO ₂ nanoparticles electrode: a case of application for general photoelectrochemical enzymatic analysis. <i>Analytical Chemistry</i> , 2013 , 85, 11686-90	7.8	95
16	In situ enzymatic ascorbic acid production as electron donor for CdS quantum dots equipped TiO ₂ nanotubes: a general and efficient approach for new photoelectrochemical immunoassay. <i>Analytical Chemistry</i> , 2012 , 84, 10518-21	7.8	192
15	Immunogold labeling-induced synergy effect for amplified photoelectrochemical immunoassay of prostate-specific antigen. <i>Chemical Communications</i> , 2012 , 48, 5253-5	5.8	66
14	Highly sensitive photoelectrochemical immunoassay with enhanced amplification using horseradish peroxidase induced biocatalytic precipitation on a CdS quantum dots multilayer electrode. <i>Analytical Chemistry</i> , 2012 , 84, 917-23	7.8	241
13	The coupling of localized surface plasmon resonance-based photoelectrochemistry and nanoparticle size effect: towards novel plasmonic photoelectrochemical biosensing. <i>Chemical Communications</i> , 2012 , 48, 895-7	5.8	67
12	Exciton-plasmon interactions between CdS quantum dots and Ag nanoparticles in photoelectrochemical system and its biosensing application. <i>Analytical Chemistry</i> , 2012 , 84, 5892-7	7.8	150
11	Cell surface carbohydrates evaluation via a photoelectrochemical approach. <i>Chemical Communications</i> , 2012 , 48, 9456-8	5.8	40
10	Magnetic particles and cadmium sulfide nanoparticles tagging for signal-amplifying detection of nucleic acids. <i>Science China Chemistry</i> , 2011 , 54, 1304-1310	7.9	9
9	Energy transfer between CdS quantum dots and Au nanoparticles in photoelectrochemical detection. <i>Chemical Communications</i> , 2011 , 47, 10990-2	5.8	151
8	Interfacial reaction of intermetallic compounds of ultrasonic-assisted brazed joints between dissimilar alloys of Ti6Al4V and Al ₄ Cu ₁ Mg. <i>Ultrasonics Sonochemistry</i> , 2011 , 18, 1062-7	8.9	44
7	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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4	Dual topology in van der Waals-type superconductor Nb ₂ S ₂ C. <i>Tungsten</i> ,1	4.6	
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2	Bipolar Modulation of the Ionic Circuit for Generic Organic Photoelectrochemical Transistor Logic and Sensor. <i>Advanced Optical Materials</i> ,2102687	8.1	5
1	Functional nucleic acid engineered double-barreled nanopores for measuring sodium to potassium ratio at single-cell level. <i>Exploration</i> ,20220025		0