

Peng Lin

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.

105
papers

6,437
citations

40
h-index

79
g-index

114
ext. papers

7,223
ext. citations

8.5
avg, IF

6.38
L-index

#	Paper	IF	Citations
105	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
104	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
103	Recent Advances of Nanostructured Materials for Photoelectrochemical Bioanalysis. <i>Chemosensors</i> , 2022 , 10, 14	4	0
102	Light-Fueled Organic Photoelectrochemical Transistor for Probing Membrane Protein in an H-Cell. <i>Advanced Materials Interfaces</i> , 2022 , 9, 2102040	4.6	0
101	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
100	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
99	Electrochemical-Assisted Reconstruction of Isorecticular Metal-Organic Framework-8 for Efficient Electroreduction of CO ₂ to CO. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 096503	3.9	1
98	Nano-electrical conductivity guided optimization of pulsed laser deposited ZnO electron transporting layer for efficient perovskite solar cell. <i>Journal of Power Sources</i> , 2020 , 468, 228392	8.9	5
97	Recent Advances in Electrochemical Sensor and Biosensors for Environmental Contaminants. <i>Nanotechnology in the Life Sciences</i> , 2020 , 1-31	1.1	1
96	Novel graphitic sheets with ripple-like folds as NCA-cathode coating layer for high-energy-density lithium-ion batteries. <i>Nanotechnology</i> , 2020 ,	3.4	2
95	Dynamic restructuring induced Cu nanoparticles with ideal nanostructure for selective multi-carbon compounds production via carbon dioxide electroreduction. <i>Journal of Catalysis</i> , 2020 , 383, 42-50	7.3	13
94	One-Step and Ligand-Free Modification of Au Nanoparticles on Highly Ordered TiO ₂ Nanotube Arrays for Effective Photoelectrocatalytic Decontamination. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 668-675	3.9	5
93	Efficient decomplexation of heavy metal-EDTA complexes by Co ²⁺ /peroxymonosulfate process: The critical role of replacement mechanism. <i>Chemical Engineering Journal</i> , 2020 , 392, 123639	14.7	14
92	Synthesis of Ni@NiSn Composite with High Lithium-Ion Diffusion Coefficient for Fast-Charging Lithium-Ion Batteries. <i>Global Challenges</i> , 2020 , 4, 1900073	4.3	9
91	A photoelectrochemical biosensor for rapid and ultrasensitive norovirus detection. <i>Bioelectrochemistry</i> , 2020 , 136, 107591	5.6	6
90	Flexible TiO ₂ /Au thin films with greatly enhanced photocurrents for photoelectrochemical water splitting. <i>Journal of Alloys and Compounds</i> , 2020 , 815, 152471	5.7	8
89	Self-Assembled Peptide Nanostructures for Photoelectrochemical Bioanalysis Application: A Proof-of-Concept Study. <i>Analytical Chemistry</i> , 2019 , 91, 12606-12610	7.8	12

88	Enhanced organic-inorganic heterojunction of polypyrrole@BiWO ₄ : Fabrication and application for sensitive photoelectrochemical immunoassay of creatine kinase-MB. <i>Biosensors and Bioelectronics</i> , 2019 , 140, 111349	11.8	15
87	Designing electron transporting layer for efficient perovskite solar cell by deliberating over nano-electrical conductivity. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 200, 109995	6.4	7
86	Cathodic photoelectrochemical bioanalysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 114, 81-88	14.6	51
85	Epitaxial ultrathin Au films on transparent mica with oxide wetting layer applied to organic light-emitting devices. <i>Applied Physics Letters</i> , 2019 , 114, 081902	3.4	10
84	Revisit of amorphous semiconductor InGaZnO ₄ : A new electron transport material for perovskite solar cells. <i>Journal of Alloys and Compounds</i> , 2019 , 789, 276-281	5.7	12
83	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
82	Binding-induced formation of DNAzyme on an Au@Ag nanoparticles/TiO ₂ nanorods electrode: Stimulating biocatalytic precipitation amplification for plasmonic photoelectrochemical bioanalysis. <i>Biosensors and Bioelectronics</i> , 2019 , 134, 103-108	11.8	18
81	A novel and sensitive sarcosine biosensor based on organic electrochemical transistor. <i>Electrochimica Acta</i> , 2019 , 307, 100-106	6.7	17
80	Facile fabrication of highly efficient ETL-free perovskite solar cells with 20% efficiency by defect passivation and interface engineering. <i>Chemical Communications</i> , 2019 , 55, 2777-2780	5.8	38
79	New Micro- and Nanotechnologies for Electrochemical Biosensor Development 2019 , 279-313		1
78	Pulsed laser deposition of amorphous InGaZnO ₄ as an electron transport layer for perovskite solar cells. <i>Journal of Advanced Dielectrics</i> , 2019 , 09, 1950042	1.3	3
77	A Tunneling Dielectric Layer Free Floating Gate Nonvolatile Memory Employing Type-I Core-Shell Quantum Dots as Discrete Charge-Trapping/Tunneling Centers. <i>Small</i> , 2019 , 15, e1804156	11	14
76	Hierarchical CuInS-based heterostructure: Application for photocathodic bioanalysis of sarcosine. <i>Biosensors and Bioelectronics</i> , 2018 , 107, 230-236	11.8	25
75	Semiconducting Organic-Inorganic Nanodots Heterojunctions: Platforms for General Photoelectrochemical Bioanalysis Application. <i>Analytical Chemistry</i> , 2018 , 90, 3759-3765	7.8	40
74	Black phosphorus quantum dots as dual-functional electron-selective materials for efficient plastic perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8886-8894	13	62
73	van der Waals epitaxy of Al-doped ZnO film on mica as a flexible transparent heater with ultrafast thermal response. <i>Applied Physics Letters</i> , 2018 , 112, 031905	3.4	32
72	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
71	3D Semiconducting Polymer/Graphene Networks: Toward Sensitive Photocathodic Enzymatic Bioanalysis. <i>Analytical Chemistry</i> , 2018 , 90, 9687-9690	7.8	24

70	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
69	Photoelectrochemical Immunoassays. <i>Analytical Chemistry</i> , 2018 , 90, 615-627	7.8	181
68	A novel protein binding strategy for energy-transfer-based photoelectrochemical detection of enzymatic activity of botulinum neurotoxin A. <i>Electrochemistry Communications</i> , 2018 , 97, 114-118	5.1	4
67	Ionic liquid modified SnO ₂ nanocrystals as a robust electron transporting layer for efficient planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 22086-22095	13	47
66	Synthesis of ferroelectric KNbO ₃ nanosheets by liquid exfoliation of layered perovskite K ₂ NbO ₃ F. <i>Journal of Alloys and Compounds</i> , 2017 , 698, 357-363	5.7	7
65	Quantum-dots-based photoelectrochemical bioanalysis highlighted with recent examples. <i>Biosensors and Bioelectronics</i> , 2017 , 94, 207-218	11.8	59
64	Effect of oxygen pressure on pulsed laser deposited WO ₃ thin films for photoelectrochemical water splitting. <i>Journal of Alloys and Compounds</i> , 2017 , 722, 913-919	5.7	16
63	Polymer Dots for Photoelectrochemical Bioanalysis. <i>Analytical Chemistry</i> , 2017 , 89, 4945-4950	7.8	37
62	Panchromatic thin perovskite solar cells with broadband plasmonic absorption enhancement and efficient light scattering management by Au@Ag core-shell nanocuboids. <i>Nano Energy</i> , 2017 , 41, 654-664	17.1	49
61	Origin of colossal dielectric response in (In + Nb) co-doped TiO rutile ceramics: a potential electrothermal material. <i>Scientific Reports</i> , 2017 , 7, 10144	4.9	12
60	A sensitive DNA sensor based on an organic electrochemical transistor using a peptide nucleic acid-modified nanoporous gold gate electrode. <i>RSC Advances</i> , 2017 , 7, 52118-52124	3.7	15
59	Photoelectrochemical Bioanalysis Platform of Gold Nanoparticles Equipped Perovskite BiNbOCl. <i>Analytical Chemistry</i> , 2017 , 89, 7869-7875	7.8	47
58	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
57	Photoelectrochemical enzymatic biosensors. <i>Biosensors and Bioelectronics</i> , 2017 , 92, 294-304	11.8	171
56	A Novel Organic Electrochemical Transistor-Based Platform for Monitoring the Senescent Green Vegetative Phase of <i>Haematococcus pluvialis</i> Cells. <i>Sensors</i> , 2017 , 17,	3.8	7
55	1-Butyl-3-Methylimidazolium Tetrafluoroborate Film as a Highly Selective Sensing Material for Non-Invasive Detection of Acetone Using a Quartz Crystal Microbalance. <i>Sensors</i> , 2017 , 17,	3.8	12
54	A Diagram of the Structure Evolution of Pb(Zn _{1/3} Nb _{2/3})O ₃ -9%PbTiO ₃ Relaxor Ferroelectric Crystals with Excellent Piezoelectric Properties. <i>Crystals</i> , 2017 , 7, 130	2.3	4
53	Recent advances in the use of quantum dots for photoelectrochemical bioanalysis. <i>Nanoscale</i> , 2016 , 8, 17407-17414	7.7	47

52	Photoelectrochemical aptasensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 82, 307-315	14.6	123
51	An ultrasensitive energy-transfer based photoelectrochemical protein biosensor. <i>Chemical Communications</i> , 2016 , 52, 3034-7	5.8	30
50	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
49	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
48	Multichannel quartz crystal microbalance array: Fabrication, evaluation, application in biomarker detection. <i>Analytical Biochemistry</i> , 2016 , 494, 85-92	3.1	21
47	Intrinsic and extrinsic effects on the ferroelectric switching of thin poly(vinylidene fluoride/trifluoroethylene) copolymer films. <i>APL Materials</i> , 2016 , 4, 046107	5.7	10
46	Realizing 60 GHz narrow-linewidth photonic microwaves with very low RF driving power. <i>Laser Physics Letters</i> , 2016 , 13, 126202	1.5	2
45	A giant negative electrocaloric effect in Eu-doped PbZrO ₃ thin films. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 3375-3378	7.1	52
44	Simultaneous photoelectrochemical and visualized immunoassay of human chorionic gonadotrophin. <i>Biosensors and Bioelectronics</i> , 2016 , 85, 294-299	11.8	33
43	Morphotropic domain structures and dielectric relaxation in piezo-/ferroelectric Pb(In _{1/2} Nb _{1/2})O ₃ Pb(Zn _{1/3} Nb _{2/3})O ₃ PbTiO ₃ single crystals. <i>Journal of Crystal Growth</i> , 2016 , 441, 33-40	1.6	3
42	Transparent Indium Tin Oxide Electrodes on Muscovite Mica for High-Temperature-Processed Flexible Optoelectronic Devices. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 28406-28411	9.5	67
41	Structure, corrosion resistance and in vitro bioactivity of Ca and P containing TiO ₂ coating fabricated on NiTi alloy by plasma electrolytic oxidation. <i>Applied Surface Science</i> , 2015 , 356, 1234-1243	6.7	27
40	Photoelectrochemical bioanalysis: the state of the art. <i>Chemical Society Reviews</i> , 2015 , 44, 729-41	58.5	580
39	Temperature-dependent reversible and irreversible processes in Nb-doped PbZrO ₃ relaxor ferroelectric thin films. <i>Applied Physics Letters</i> , 2015 , 107, 202902	3.4	6
38	Integration of a miniature quartz crystal microbalance with a microfluidic chip for amyloid beta-A β 2 quantitation. <i>Sensors</i> , 2015 , 15, 25746-60	3.8	9
37	Ferroelectric Polymer Thin Films for Organic Electronics. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-14	3.2	24
36	Using G-quadruplex/hemin to "switch-on" the cathodic photocurrent of p-type PbS quantum dots: toward a versatile platform for photoelectrochemical aptasensing. <i>Analytical Chemistry</i> , 2015 , 87, 2892-900	7.8	134
35	Large-area color controllable remote carbon white-light light-emitting diodes. <i>Carbon</i> , 2015 , 85, 344-350	10.4	41

34	Bismuthoxyiodide nanoflakes/titania nanotubes arrayed p-n heterojunction and its application for photoelectrochemical bioanalysis. <i>Scientific Reports</i> , 2014 , 4, 4426	4.9	45
33	Tuning of dielectric and ferroelectric properties in single phase BiFeO ₃ ceramics with controlled Fe ²⁺ /Fe ³⁺ ratio. <i>Ceramics International</i> , 2014 , 40, 5263-5268	5.1	26
32	Giant dielectric response and enhanced thermal stability of multiferroic BiFeO ₃ . <i>Journal of Alloys and Compounds</i> , 2014 , 600, 118-124	5.7	17
31	Folding-based photoelectrochemical biosensor: binding-induced conformation change of a quantum dot-tagged DNA probe for mercury(II) detection. <i>Chemical Communications</i> , 2014 , 50, 12088-90	5.8	50
30	Photoelectrochemical DNA biosensors. <i>Chemical Reviews</i> , 2014 , 114, 7421-41	68.1	579
29	PbZrO ₃ -Based Antiferroelectric Thin Film Capacitors with High Energy Storage Density. <i>International Journal of Advanced Applied Physics Research</i> , 2014 , 1, 35-39	2	2
28	Organic electrochemical transistor array for recording transepithelial ion transport of human airway epithelial cells. <i>Advanced Materials</i> , 2013 , 25, 6575-80	24	50
27	Fabrication of organic electrochemical transistor arrays for biosensing. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013 , 1830, 4402-6	4	19
26	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
25	Variable-range-hopping conductivity in high-k Ba(Fe _{0.5} Nb _{0.5})O ₃ ceramics. <i>Journal of Applied Physics</i> , 2013 , 114, 104106	2.5	25
24	Polarization-independent efficiency enhancement of organic solar cells by using 3-dimensional plasmonic electrode. <i>Applied Physics Letters</i> , 2013 , 102, 153304	3.4	44
23	Al-TiO ₂ composite-modified single-layer graphene as an efficient transparent cathode for organic solar cells. <i>ACS Nano</i> , 2013 , 7, 1740-7	16.7	80
22	Semitransparent organic solar cells with hybrid monolayer graphene/metal grid as top electrodes. <i>Applied Physics Letters</i> , 2013 , 102, 113303	3.4	45
21	Mean-Field Approach to Dielectric Relaxation in Giant Dielectric Constant Perovskite Ceramics. <i>Journal of Ceramics</i> , 2013 , 2013, 1-7		6
20	Organic thin-film transistors for chemical and biological sensing. <i>Advanced Materials</i> , 2012 , 24, 34-51	24	671
19	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
18	Solution-gated graphene field effect transistors integrated in microfluidic systems and used for flow velocity detection. <i>Nano Letters</i> , 2012 , 12, 1404-9	11.5	101
17	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

16	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
15	Highly sensitive dopamine biosensors based on organic electrochemical transistors. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 4559-63	11.8	165
14	Highly Sensitive Glucose Biosensors Based on Organic Electrochemical Transistors Using Platinum Gate Electrodes Modified with Enzyme and Nanomaterials. <i>Advanced Functional Materials</i> , 2011 , 21, 2264-2272	15.6	203
13	Organic electrochemical transistors integrated in flexible microfluidic systems and used for label-free DNA sensing. <i>Advanced Materials</i> , 2011 , 23, 4035-40	24	239
12	Energy transfer between CdS quantum dots and Au nanoparticles in photoelectrochemical detection. <i>Chemical Communications</i> , 2011 , 47, 10990-2	5.8	151
11	Ultrasensitive photoelectrochemical biosensing based on biocatalytic deposition. <i>Electrochemistry Communications</i> , 2011 , 13, 495-497	5.1	64
10	Ion-sensitive properties of organic electrochemical transistors. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1637-41	9.5	161
9	The application of organic electrochemical transistors in cell-based biosensors. <i>Advanced Materials</i> , 2010 , 22, 3655-60	24	211
8	Improvement of the tunable wettability property of poly(3-alkylthiophene) films. <i>Langmuir</i> , 2009 , 25, 7465-70	4	36
7	Thickness effects on structures and electrical properties of lead zirconate titanate thick films. <i>Ceramics International</i> , 2008 , 34, 991-995	5.1	17
6	Effect of poly(vinyl acetate) on structure and property of bismuth-doped strontium titanate thin films derived by sol-gel method. <i>Ceramics International</i> , 2008 , 34, 997-1001	5.1	1
5	Effect of poly(vinyl acetate) on structures and properties of PbZr _{0.52} Ti _{0.48} O ₃ thick films. <i>Journal of Applied Physics</i> , 2007 , 102, 084109	2.5	8
4	POLYMER-ASSISTED MOD PREPARATION OF PbZr _{0.52} Ti _{0.48} O ₃ THICK FILMS FOR MEMS APPLICATIONS. <i>Integrated Ferroelectrics</i> , 2006 , 84, 75-82	0.8	2
3	Regulating Light-Sensitive Gate of Organic Photoelectrochemical Transistor toward Sensitive Biodetection at Zero Gate Bias. <i>Small Structures</i> , 2100087	8.7	11
2	Multifunctional Hydrogel Hybrid-Gated Organic Photoelectrochemical Transistor for Biosensing. <i>Advanced Functional Materials</i> , 2109046	15.6	6
1	Bipolar Modulation of the Ionic Circuit for Generic Organic Photoelectrochemical Transistor Logic and Sensor. <i>Advanced Optical Materials</i> , 2102687	8.1	5