

Peng Lin

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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 | Organic thin-film transistors for chemical and biological sensing. <i>Advanced Materials</i> , 2012 , 24, 34-51 | 24 | 671 |
| 104 | Photoelectrochemical bioanalysis: the state of the art. <i>Chemical Society Reviews</i> , 2015 , 44, 729-41 | 58.5 | 580 |
| 103 | Photoelectrochemical DNA biosensors. <i>Chemical Reviews</i> , 2014 , 114, 7421-41 | 68.1 | 579 |
| 102 | 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 |
| 101 | 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 |
| 100 | The application of organic electrochemical transistors in cell-based biosensors. <i>Advanced Materials</i> , 2010 , 22, 3655-60 | 24 | 211 |
| 99 | 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 |
| 98 | 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 |
| 97 | Photoelectrochemical Immunoassays. <i>Analytical Chemistry</i> , 2018 , 90, 615-627 | 7.8 | 181 |
| 96 | Photoelectrochemical enzymatic biosensors. <i>Biosensors and Bioelectronics</i> , 2017 , 92, 294-304 | 11.8 | 171 |
| 95 | Highly sensitive dopamine biosensors based on organic electrochemical transistors. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 4559-63 | 11.8 | 165 |
| 94 | Ion-sensitive properties of organic electrochemical transistors. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1637-41 | 9.5 | 161 |
| 93 | Energy transfer between CdS quantum dots and Au nanoparticles in photoelectrochemical detection. <i>Chemical Communications</i> , 2011 , 47, 10990-2 | 5.8 | 151 |
| 92 | 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 |
| 91 | 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 |
| 90 | Photoelectrochemical aptasensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 82, 307-315 | 14.6 | 123 |
| 89 | 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 |

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|----|--|------|-----|
| 88 | 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 |
| 87 | 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 |
| 86 | 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 |
| 85 | 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 |
| 84 | 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 |
| 83 | Ultrasensitive photoelectrochemical biosensing based on biocatalytic deposition. <i>Electrochemistry Communications</i> , 2011 , 13, 495-497 | 5.1 | 64 |
| 82 | 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 |
| 81 | Quantum-dots-based photoelectrochemical bioanalysis highlighted with recent examples. <i>Biosensors and Bioelectronics</i> , 2017 , 94, 207-218 | 11.8 | 59 |
| 80 | 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 |
| 79 | Cathodic photoelectrochemical bioanalysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 114, 81-88 | 14.6 | 51 |
| 78 | 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 |
| 77 | 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 |
| 76 | Organic electrochemical transistor array for recording transepithelial ion transport of human airway epithelial cells. <i>Advanced Materials</i> , 2013 , 25, 6575-80 | 24 | 50 |
| 75 | 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 |
| 74 | Recent advances in the use of quantum dots for photoelectrochemical bioanalysis. <i>Nanoscale</i> , 2016 , 8, 17407-17414 | 7.7 | 47 |
| 73 | Photoelectrochemical Bioanalysis Platform of Gold Nanoparticles Equipped Perovskite BiNbOCl ₄ . <i>Analytical Chemistry</i> , 2017 , 89, 7869-7875 | 7.8 | 47 |
| 72 | 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 |
| 71 | Bismuthoxyiodide nanoflakes/titania nanotubes arrayed p-n heterojunction and its application for photoelectrochemical bioanalysis. <i>Scientific Reports</i> , 2014 , 4, 4426 | 4.9 | 45 |

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| 70 | Semitransparent organic solar cells with hybrid monolayer graphene/metal grid as top electrodes. <i>Applied Physics Letters</i> , 2013 , 102, 113303 | 3.4 | 45 |
| 69 | 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 |
| 68 | 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 |
| 67 | Large-area color controllable remote carbon white-light light-emitting diodes. <i>Carbon</i> , 2015 , 85, 344-350 | 10.4 | 41 |
| 66 | Semiconducting Organic-Inorganic Nanodots Heterojunctions: Platforms for General Photoelectrochemical Bioanalysis Application. <i>Analytical Chemistry</i> , 2018 , 90, 3759-3765 | 7.8 | 40 |
| 65 | 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 |
| 64 | Polymer Dots for Photoelectrochemical Bioanalysis. <i>Analytical Chemistry</i> , 2017 , 89, 4945-4950 | 7.8 | 37 |
| 63 | Improvement of the tunable wettability property of poly(3-alkylthiophene) films. <i>Langmuir</i> , 2009 , 25, 7465-70 | 4 | 36 |
| 62 | Simultaneous photoelectrochemical and visualized immunoassay of human chorionic gonadotrophin. <i>Biosensors and Bioelectronics</i> , 2016 , 85, 294-299 | 11.8 | 33 |
| 61 | 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 |
| 60 | 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 |
| 59 | An ultrasensitive energy-transfer based photoelectrochemical protein biosensor. <i>Chemical Communications</i> , 2016 , 52, 3034-7 | 5.8 | 30 |
| 58 | 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 |
| 57 | 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 |
| 56 | 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 |
| 55 | Hierarchical CuInS-based heterostructure: Application for photocathodic bioanalysis of sarcosine. <i>Biosensors and Bioelectronics</i> , 2018 , 107, 230-236 | 11.8 | 25 |
| 54 | 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 |
| 53 | 3D Semiconducting Polymer/Graphene Networks: Toward Sensitive Photocathodic Enzymatic Bioanalysis. <i>Analytical Chemistry</i> , 2018 , 90, 9687-9690 | 7.8 | 24 |

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| 52 | Ferroelectric Polymer Thin Films for Organic Electronics. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-14 | 3.2 | 24 |
| 51 | 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 |
| 50 | Multichannel quartz crystal microbalance array: Fabrication, evaluation, application in biomarker detection. <i>Analytical Biochemistry</i> , 2016 , 494, 85-92 | 3.1 | 21 |
| 49 | Fabrication of organic electrochemical transistor arrays for biosensing. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013 , 1830, 4402-6 | 4 | 19 |
| 48 | 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 |
| 47 | A novel and sensitive sarcosine biosensor based on organic electrochemical transistor. <i>Electrochimica Acta</i> , 2019 , 307, 100-106 | 6.7 | 17 |
| 46 | 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 |
| 45 | Thickness effects on structures and electrical properties of lead zirconate titanate thick films. <i>Ceramics International</i> , 2008 , 34, 991-995 | 5.1 | 17 |
| 44 | 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 |
| 43 | Enhanced organic-inorganic heterojunction of polypyrrole@BiWO: Fabrication and application for sensitive photoelectrochemical immunoassay of creatine kinase-MB. <i>Biosensors and Bioelectronics</i> , 2019 , 140, 111349 | 11.8 | 15 |
| 42 | 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 |
| 41 | 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 |
| 40 | 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 |
| 39 | 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 |
| 38 | Self-Assembled Peptide Nanostructures for Photoelectrochemical Bioanalysis Application: A Proof-of-Concept Study. <i>Analytical Chemistry</i> , 2019 , 91, 12606-12610 | 7.8 | 12 |
| 37 | 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 |
| 36 | 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 |
| 35 | 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 |

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| 34 | Regulating Light-Sensitive Gate of Organic Photoelectrochemical Transistor toward Sensitive Biodetection at Zero Gate Bias. <i>Small Structures</i> , 2100087 | 8.7 | 11 |
| 33 | 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 |
| 32 | 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 |
| 31 | 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 |
| 30 | 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 |
| 29 | 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 |
| 28 | 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 |
| 27 | 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 |
| 26 | 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 |
| 25 | 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 |
| 24 | A Novel Organic Electrochemical Transistor-Based Platform for Monitoring the Senescent Green Vegetative Phase of Haematococcus pluvialis Cells. <i>Sensors</i> , 2017 , 17, | 3.8 | 7 |
| 23 | 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 |
| 22 | Mean-Field Approach to Dielectric Relaxation in Giant Dielectric Constant Perovskite Ceramics. <i>Journal of Ceramics</i> , 2013 , 2013, 1-7 | | 6 |
| 21 | A photoelectrochemical biosensor for rapid and ultrasensitive norovirus detection. <i>Bioelectrochemistry</i> , 2020 , 136, 107591 | 5.6 | 6 |
| 20 | Multifunctional Hydrogel Hybrid-Gated Organic Photoelectrochemical Transistor for Biosensing. <i>Advanced Functional Materials</i> , 2109046 | 15.6 | 6 |
| 19 | 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 |
| 18 | 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 |
| 17 | Bipolar Modulation of the Ionic Circuit for Generic Organic Photoelectrochemical Transistor Logic and Sensor. <i>Advanced Optical Materials</i> , 2102687 | 8.1 | 5 |

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|----|--|------|---|
| 16 | 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 |
| 15 | 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 |
| 14 | 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 |
| 13 | 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 |
| 12 | 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 |
| 11 | 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 |
| 10 | 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 |
| 9 | 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 |
| 8 | 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 |
| 7 | Realizing 60 GHz narrow-linewidth photonic microwaves with very low RF driving power. <i>Laser Physics Letters</i> , 2016 , 13, 126202 | 1.5 | 2 |
| 6 | New Micro- and Nanotechnologies for Electrochemical Biosensor Development 2019 , 279-313 | | 1 |
| 5 | 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 |
| 4 | Recent Advances in Electrochemical Sensor and Biosensors for Environmental Contaminants. <i>Nanotechnology in the Life Sciences</i> , 2020 , 1-31 | 1.1 | 1 |
| 3 | 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 |
| 2 | Recent Advances of Nanostructured Materials for Photoelectrochemical Bioanalysis. <i>Chemosensors</i> , 2022 , 10, 14 | 4 | 0 |
| 1 | Light-Fueled Organic Photoelectrochemical Transistor for Probing Membrane Protein in an H-Cell. <i>Advanced Materials Interfaces</i> , 2022 , 9, 2102040 | 4.6 | 0 |