List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Organic Thinâ€Film Transistors for Chemical and Biological Sensing. Advanced Materials, 2012, 24, 34-51.	11.1	760
2	Photoelectrochemical bioanalysis: the state of the art. Chemical Society Reviews, 2015, 44, 729-741.	18.7	750
3	Photoelectrochemical DNA Biosensors. Chemical Reviews, 2014, 114, 7421-7441.	23.0	722
4	Organic Electrochemical Transistors Integrated in Flexible Microfluidic Systems and Used for Labelâ€Free DNA Sensing. Advanced Materials, 2011, 23, 4035-4040.	11.1	278
5	Highly Sensitive Photoelectrochemical Immunoassay with Enhanced Amplification Using Horseradish Peroxidase Induced Biocatalytic Precipitation on a CdS Quantum Dots Multilayer Electrode. Analytical Chemistry, 2012, 84, 917-923.	3.2	270
6	The Application of Organic Electrochemical Transistors in Cellâ€Based Biosensors. Advanced Materials, 2010, 22, 3655-3660.	11.1	255
7	Photoelectrochemical Immunoassays. Analytical Chemistry, 2018, 90, 615-627.	3.2	255
8	Highly Sensitive Glucose Biosensors Based on Organic Electrochemical Transistors Using Platinum Gate Electrodes Modified with Enzyme and Nanomaterials. Advanced Functional Materials, 2011, 21, 2264-2272.	7.8	243
9	Photoelectrochemical enzymatic biosensors. Biosensors and Bioelectronics, 2017, 92, 294-304.	5.3	231
10	<i>In Situ</i> Enzymatic Ascorbic Acid Production as Electron Donor for CdS Quantum Dots Equipped TiO ₂ Nanotubes: A General and Efficient Approach for New Photoelectrochemical Immunoassay. Analytical Chemistry, 2012, 84, 10518-10521.	3.2	210
11	Highly sensitive dopamine biosensors based on organic electrochemical transistors. Biosensors and Bioelectronics, 2011, 26, 4559-4563.	5.3	204
12	Ion-Sensitive Properties of Organic Electrochemical Transistors. ACS Applied Materials & Interfaces, 2010, 2, 1637-1641.	4.0	195
13	Energy transfer between CdS quantum dots and Au nanoparticles in photoelectrochemical detection. Chemical Communications, 2011, 47, 10990.	2.2	177
14	Exciton-Plasmon Interactions between CdS Quantum Dots and Ag Nanoparticles in Photoelectrochemical System and Its Biosensing Application. Analytical Chemistry, 2012, 84, 5892-5897.	3.2	174
15	Using G-Quadruplex/Hemin To "Switch-On―the Cathodic Photocurrent of p-Type PbS Quantum Dots: Toward a Versatile Platform for Photoelectrochemical Aptasensing. Analytical Chemistry, 2015, 87, 2892-2900.	3.2	152
16	Hybrid PbS Quantum Dot/Nanoporous NiO Film Nanostructure: Preparation, Characterization, and Application for a Self-Powered Cathodic Photoelectrochemical Biosensor. Analytical Chemistry, 2017, 89, 8070-8078.	3.2	149
17	Photoelectrochemical aptasensing. TrAC - Trends in Analytical Chemistry, 2016, 82, 307-315.	5.8	145
18	Solution-Gated Graphene Field Effect Transistors Integrated in Microfluidic Systems and Used for Flow Velocity Detection. Nano Letters, 2012, 12, 1404-1409.	4.5	121

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19	Cathodic photoelectrochemical bioanalysis. TrAC - Trends in Analytical Chemistry, 2019, 114, 81-88.	5.8	108
20	Acetylcholine Esterase Antibodies on BiOI Nanoflakes/TiO ₂ Nanoparticles Electrode: A Case of Application for General Photoelectrochemical Enzymatic Analysis. Analytical Chemistry, 2013, 85, 11686-11690.	3.2	106
21	Simultaneous Photoelectrochemical Immunoassay of Dual Cardiac Markers Using Specific Enzyme Tags: A Proof of Principle for Multiplexed Bioanalysis. Analytical Chemistry, 2016, 88, 1990-1994.	3.2	97
22	Al-TiO ₂ Composite-Modified Single-Layer Graphene as an Efficient Transparent Cathode for Organic Solar Cells. ACS Nano, 2013, 7, 1740-1747.	7.3	90
23	Transparent Indium Tin Oxide Electrodes on Muscovite Mica for High-Temperature-Processed Flexible Optoelectronic Devices. ACS Applied Materials & Interfaces, 2016, 8, 28406-28411.	4.0	83
24	Black phosphorus quantum dots as dual-functional electron-selective materials for efficient plastic perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 8886-8894.	5.2	80
25	Quantum-dots-based photoelectrochemical bioanalysis highlighted with recent examples. Biosensors and Bioelectronics, 2017, 94, 207-218.	5.3	79
26	An Integrated Electrochemical Nanodevice for Intracellular RNA Collection and Detection in Single Living Cell. Angewandte Chemie - International Edition, 2021, 60, 13244-13250.	7.2	75
27	Ultrasensitive photoelectrochemical biosensing based on biocatalytic deposition. Electrochemistry Communications, 2011, 13, 495-497.	2.3	68
28	Panchromatic thin perovskite solar cells with broadband plasmonic absorption enhancement and efficient light scattering management by Au@Ag core-shell nanocuboids. Nano Energy, 2017, 41, 654-664.	8.2	68
29	Protein Binding Bends the Gold Nanoparticle Capped DNA Sequence: Toward Novel Energy-Transfer-Based Photoelectrochemical Protein Detection. Analytical Chemistry, 2016, 88, 3864-3871.	3.2	67
30	lonic liquid modified SnO ₂ nanocrystals as a robust electron transporting layer for efficient planar perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 22086-22095.	5.2	66
31	An Integrated Photoelectrochemical Nanotool for Intracellular Drug Delivery and Evaluation of Treatment Effect. Angewandte Chemie - International Edition, 2021, 60, 25762-25765.	7.2	64
32	A giant negative electrocaloric effect in Eu-doped PbZrO ₃ thin films. Journal of Materials Chemistry C, 2016, 4, 3375-3378.	2.7	62
33	Photoelectrochemical Bioanalysis Platform of Gold Nanoparticles Equipped Perovskite Bi ₄ NbO ₈ Cl. Analytical Chemistry, 2017, 89, 7869-7875.	3.2	62
34	Facile fabrication of highly efficient ETL-free perovskite solar cells with 20% efficiency by defect passivation and interface engineering. Chemical Communications, 2019, 55, 2777-2780.	2.2	61
35	Recent advances in the use of quantum dots for photoelectrochemical bioanalysis. Nanoscale, 2016, 8, 17407-17414.	2.8	60
36	Organic Electrochemical Transistor Array for Recording Transepithelial Ion Transport of Human Airway Epithelial Cells. Advanced Materials, 2013, 25, 6575-6580.	11.1	59

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37	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. Analytical Chemistry, 2019, 91, 3800-3804.	3.2	56
38	Folding-based photoelectrochemical biosensor: binding-induced conformation change of a quantum dot-tagged DNA probe for mercury(<scp>ii</scp>) detection. Chemical Communications, 2014, 50, 12088-12090.	2.2	55
39	Semiconducting Organic–Inorganic Nanodots Heterojunctions: Platforms for General Photoelectrochemical Bioanalysis Application. Analytical Chemistry, 2018, 90, 3759-3765.	3.2	54
40	Organic Photoâ€Electrochemical Transistorâ€Based Biosensor: A Proofâ€ofâ€Concept Study toward Highly Sensitive DNA Detection. Advanced Healthcare Materials, 2018, 7, e1800536.	3.9	54
41	Polymer Dots for Photoelectrochemical Bioanalysis. Analytical Chemistry, 2017, 89, 4945-4950.	3.2	51
42	Semitransparent organic solar cells with hybrid monolayer graphene/metal grid as top electrodes. Applied Physics Letters, 2013, 102, 113303.	1.5	49
43	Large-area color controllable remote carbon white-light light-emitting diodes. Carbon, 2015, 85, 344-350.	5.4	49
44	Polarization-independent efficiency enhancement of organic solar cells by using 3-dimensional plasmonic electrode. Applied Physics Letters, 2013, 102, 153304.	1.5	48
45	Bismuthoxyiodide Nanoflakes/Titania Nanotubes Arrayed p-n Heterojunction and Its Application for Photoelectrochemical Bioanalysis. Scientific Reports, 2014, 4, 4426.	1.6	45
46	van der Waals epitaxy of Al-doped ZnO film on mica as a flexible transparent heater with ultrafast thermal response. Applied Physics Letters, 2018, 112, .	1.5	43
47	A Polymer Dots-Based Photoelectrochemical pH Sensor: Simplicity, High Sensitivity, and Broad-Range pH Measurement. Analytical Chemistry, 2018, 90, 8300-8303.	3.2	40
48	Multifunctional Hydrogel Hybridâ€Gated Organic Photoelectrochemical Transistor for Biosensing. Advanced Functional Materials, 2022, 32, .	7.8	40
49	Simultaneous photoelectrochemical and visualized immunoassay of β-human chorionic gonadotrophin. Biosensors and Bioelectronics, 2016, 85, 294-299.	5.3	39
50	Hierarchical CuInS 2 -based heterostructure: Application for photocathodic bioanalysis of sarcosine. Biosensors and Bioelectronics, 2018, 107, 230-236.	5.3	39
51	Regulating Lightâ€Sensitive Gate of Organic Photoelectrochemical Transistor toward Sensitive Biodetection at Zero Gate Bias. Small Structures, 2021, 2, 2100087.	6.9	38
52	Improvement of the Tunable Wettability Property of Poly(3-alkylthiophene) Films. Langmuir, 2009, 25, 7465-7470.	1.6	37
53	Tuning of dielectric and ferroelectric properties in single phase BiFeO3 ceramics with controlled Fe2+/Fe3+ ratio. Ceramics International, 2014, 40, 5263-5268.	2.3	36
54	Structure, corrosion resistance and in vitro bioactivity of Ca and P containing TiO 2 coating fabricated on NiTi alloy by plasma electrolytic oxidation. Applied Surface Science, 2015, 356, 1234-1243.	3.1	36

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55	Ferroelectric Polymer Thin Films for Organic Electronics. Journal of Nanomaterials, 2015, 2015, 1-14.	1.5	35
56	A novel and sensitive sarcosine biosensor based on organic electrochemical transistor. Electrochimica Acta, 2019, 307, 100-106.	2.6	35
57	An ultrasensitive energy-transfer based photoelectrochemical protein biosensor. Chemical Communications, 2016, 52, 3034-3037.	2.2	33
58	Variable-range-hopping conductivity in high-k Ba(Fe0.5Nb0.5)O3 ceramics. Journal of Applied Physics, 2013, 114, .	1.1	30
59	Binding-induced formation of DNAzyme on an Au@Ag nanoparticles/TiO2 nanorods electrode: Stimulating biocatalytic precipitation amplification for plasmonic photoelectrochemical bioanalysis. Biosensors and Bioelectronics, 2019, 134, 103-108.	5.3	28
60	A sensitive DNA sensor based on an organic electrochemical transistor using a peptide nucleic acid-modified nanoporous gold gate electrode. RSC Advances, 2017, 7, 52118-52124.	1.7	27
61	3D Semiconducting Polymer/Graphene Networks: Toward Sensitive Photocathodic Enzymatic Bioanalysis. Analytical Chemistry, 2018, 90, 9687-9690.	3.2	27
62	Fabrication of organic electrochemical transistor arrays for biosensing. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 4402-4406.	1.1	26
63	Enhanced organicâ^'inorganic heterojunction of polypyrrole@Bi2WO6: Fabrication and application for sensitive photoelectrochemical immunoassay of creatine kinase-MB. Biosensors and Bioelectronics, 2019, 140, 111349.	5.3	24
64	Multichannel quartz crystal microbalance array: Fabrication, evaluation, application in biomarker detection. Analytical Biochemistry, 2016, 494, 85-92.	1,1	23
65	A Tunneling Dielectric Layer Free Floating Gate Nonvolatile Memory Employing Typeâ€I Core–Shell Quantum Dots as Discrete Chargeâ€Irapping/Tunneling Centers. Small, 2019, 15, e1804156.	5.2	23
66	Hybridization chain reaction for regulating surface capacitance of organic photoelectrochemical transistor toward sensitive miRNA detection. Biosensors and Bioelectronics, 2022, 209, 114224.	5.3	23
67	Dynamic restructuring induced Cu nanoparticles with ideal nanostructure for selective multi-carbon compounds production via carbon dioxide electroreduction. Journal of Catalysis, 2020, 383, 42-50.	3.1	22
68	Ascorbic acid-mediated organic photoelectrochemical transistor sensing strategy for highly sensitive detection of heart-type fatty acid binding protein. Biosensors and Bioelectronics, 2022, 201, 113958.	5.3	22
69	Giant dielectric response and enhanced thermal stability of multiferroic BiFeO3. Journal of Alloys and Compounds, 2014, 600, 118-124.	2.8	21
70	Effect of oxygen pressure on pulsed laser deposited WO3 thin films for photoelectrochemical water splitting. Journal of Alloys and Compounds, 2017, 722, 913-919.	2.8	21
71	Bipolar Modulation of the Ionic Circuit for Generic Organic Photoelectrochemical Transistor Logic and Sensor. Advanced Optical Materials, 2022, 10, .	3.6	20
72	Thickness effects on structures and electrical properties of lead zirconate titanate thick films. Ceramics International, 2008, 34, 991-995.	2.3	19

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73	Efficient decomplexation of heavy metal-EDTA complexes by Co2+/peroxymonosulfate process: The critical role of replacement mechanism. Chemical Engineering Journal, 2020, 392, 123639.	6.6	19
74	Origin of colossal dielectric response in (In + Nb) co-doped TiO2 rutile ceramics: a potential electrothermal material. Scientific Reports, 2017, 7, 10144.	1.6	18
75	A photoelectrochemical biosensor for rapid and ultrasensitive norovirus detection. Bioelectrochemistry, 2020, 136, 107591.	2.4	18
76	Revisit of amorphous semiconductor InGaZnO4: A new electron transport material for perovskite solar cells. Journal of Alloys and Compounds, 2019, 789, 276-281.	2.8	16
77	Organic photoelectrochemical transistor detection of tear lysozyme. Sensors & Diagnostics, 2022, 1, 294-300.	1.9	16
78	1-Butyl-3-Methylimidazolium Tetrafluoroborate Film as a Highly Selective Sensing Material for Non-Invasive Detection of Acetone Using a Quartz Crystal Microbalance. Sensors, 2017, 17, 194.	2.1	15
79	Self-Assembled Peptide Nanostructures for Photoelectrochemical Bioanalysis Application: A Proof-of-Concept Study. Analytical Chemistry, 2019, 91, 12606-12610.	3.2	15
80	Integration of a Miniature Quartz Crystal Microbalance with a Microfluidic Chip for Amyloid Beta-Aβ42 Quantitation. Sensors, 2015, 15, 25746-25760.	2.1	13
81	Intrinsic and extrinsic effects on the ferroelectric switching of thin poly(vinylidene) Tj ETQq1 1 0.784314 rgB	[/Overlock 1	0 Tf 50 422 T
82	Flexible TiO2/Au thin films with greatly enhanced photocurrents for photoelectrochemical water splitting. Journal of Alloys and Compounds, 2020, 815, 152471.	2.8	13
83	Epitaxial ultrathin Au films on transparent mica with oxide wetting layer applied to organic light-emitting devices. Applied Physics Letters, 2019, 114, 081902.	1.5	12
84	Synthesis of Ni@NiSn Composite with High Lithiumâ€lon Diffusion Coefficient for Fastâ€Charging Lithiumâ€lon Batteries. Global Challenges, 2020, 4, 1900073.	1.8	12
85	A Novel Organic Electrochemical Transistor-Based Platform for Monitoring the Senescent Green Vegetative Phase of Haematococcus pluvialis Cells. Sensors, 2017, 17, 1997.	2.1	11
86	Designing electron transporting layer for efficient perovskite solar cell by deliberating over nano-electrical conductivity. Solar Energy Materials and Solar Cells, 2019, 200, 109995.	3.0	10
87	Effect of poly(vinyl acetate) on structures and properties of PbZr0.52Ti0.48O3 thick films. Journal of Applied Physics, 2007, 102, 084109.	1.1	9
88	Temperature-dependent reversible and irreversible processes in Nb-doped PbZrO3 relaxor ferroelectric thin films. Applied Physics Letters, 2015, 107, .	1.5	8
89	Synthesis of ferroelectric KNbO 3 nanosheets by liquid exfoliation of layered perovskite K 2 NbO 3 F. Journal of Alloys and Compounds, 2017, 698, 357-363.	2.8	8
90	Nano-electrical conductivity guided optimization of pulsed laser deposited ZnO electron transporting layer for efficient perovskite solar cell. Journal of Power Sources, 2020, 468, 228392.	4.0	8

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91	Mean-Field Approach to Dielectric Relaxation in Giant Dielectric Constant Perovskite Ceramics. Journal of Ceramics, 2013, 2013, 1-7.	0.9	8
92	Recent Advances of Nanostructured Materials for Photoelectrochemical Bioanalysis. Chemosensors, 2022, 10, 14.	1.8	8
93	One-Step and Ligand-Free Modification of Au Nanoparticles on Highly Ordered TiO2 Nanotube Arrays for Effective Photoelectrocatalytic Decontamination. Industrial & Engineering Chemistry Research, 2020, 59, 668-675.	1.8	7
94	A Diagram of the Structure Evolution of Pb(Zn1/3Nb2/3) O3-9%PbTiO3 Relaxor Ferroelectric Crystals with Excellent Piezoelectric Properties. Crystals, 2017, 7, 130.	1.0	6
95	Novel graphitic sheets with ripple-like folds as an NCA cathode coating layer for high-energy-density lithium-ion batteries. Nanotechnology, 2021, 32, 08LT01.	1.3	6
96	Lightâ€Fueled Organic Photoelectrochemical Transistor for Probing Membrane Protein in an H ell. Advanced Materials Interfaces, 2022, 9, .	1.9	6
97	Effect of poly(vinyl acetate) on structure and property of bismuth-doped strontium titanate thin films derived by sol–gel method. Ceramics International, 2008, 34, 997-1001.	2.3	5
98	A novel protein binding strategy for energy-transfer-based photoelectrochemical detection of enzymatic activity of botulinum neurotoxin A. Electrochemistry Communications, 2018, 97, 114-118.	2.3	5
99	Morphotropic domain structures and dielectric relaxation in piezo-/ferroelectric Pb(In1/2Nb1/2)O3–Pb(Zn1/3Nb2/3)O3–PbTiO3 single crystals. Journal of Crystal Growth, 2016, 441, 33-40.	0.7	4
100	Pulsed laser deposition of amorphous InGaZnO ₄ as an electron transport layer for perovskite solar cells. Journal of Advanced Dielectrics, 2019, 09, 1950042.	1.5	4
101	PbZrO3-Based Antiferroelectric Thin Film Capacitors with High Energy Storage Density. International Journal of Advanced Applied Physics Research, 2014, 1, 35-39.	0.4	4
102	POLYMER-ASSISTED MOD PREPARATION OF PbZr0.52Ti0.48O3 THICK FILMS FOR MEMS APPLICATIONS. Integrated Ferroelectrics, 2006, 84, 75-82.	0.3	3
103	Realizing 60 GHz narrow-linewidth photonic microwaves with very low RF driving power. Laser Physics Letters, 2016, 13, 126202.	0.6	3
104	Highly-Crystalline SnO ₂ Thin Films for Efficient Planar Perovskite Solar Cells. ACS Applied Energy Materials, 2022, 5, 5704-5710.	2.5	3
105	Electrochemical-Assisted Reconstruction of Isoreticular Metal-Organic Framework-8 for Efficient Electroreduction of CO ₂ to CO. Journal of the Electrochemical Society, 2021, 168, 096503.	1.3	2
106	Sensors Based on Organic Thin Film Transistors. ECS Transactions, 2009, 16, 355-364.	0.3	1
107	The Application of Organic Electrochemical Transistors in Biosensors. ECS Transactions, 2010, 33, 399-408.	0.3	1

New Micro- and Nanotechnologies for Electrochemical Biosensor Development. , 2019, , 279-313.

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109	Defect-Structure-Related Ferroelectric Properties of K0.5Na0.5NbO3 Lead-Free Piezoelectric Ceramics. International Journal of Advanced Applied Physics Research, 2015, 2, 35-39.	0.4	1
110	Recent Advances in Electrochemical Sensor and Biosensors for Environmental Contaminants. Nanotechnology in the Life Sciences, 2020, , 1-31.	0.4	1
111	Glucose sensors based on solution-gated graphene transistors. Shenzhen Daxue Xuebao (Ligong) Tj ETQq1 1 0.7	843]4 rgE 0.1	BT /Overlock
112	Study on dielectric properties of hyperbranched zinc phthalocyanine. Shenzhen Daxue Xuebao (Ligong) Tj ETQq0	0.0 rgBT	/Oyerlock 10

113 Conductive organic materials for DNA biosensors. , 2016, , 107-147.