

Jingdong Zhang

List of Publications by Year in descending order

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110
papers

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71102

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64
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all docs

110
docs citations

110
times ranked

5025
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#	ARTICLE	IF	CITATIONS
1	Graphitic Carbon Nitride Sensitized with CdS Quantum Dots for Visible-Light-Driven Photoelectrochemical Aptasensing of Tetracycline. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 28255-28264.	8.0	184
2	A Cathodic “Signal-off” Photoelectrochemical Aptasensor for Ultrasensitive and Selective Detection of Oxytetracycline. <i>Analytical Chemistry</i> , 2015, 87, 12215-12220.	6.5	178
3	Photoelectrochemical Aptasensing of Kanamycin Using Visible Light-Activated Carbon Nitride and Graphene Oxide Nanocomposites. <i>Analytical Chemistry</i> , 2014, 86, 9372-9375.	6.5	167
4	Synthesis of nitrogen-doped graphene nanosheets decorated with gold nanoparticles as an improved sensor for electrochemical determination of chloramphenicol. <i>Electrochimica Acta</i> , 2013, 99, 138-144.	5.2	154
5	Electrochemical sensor for levofloxacin based on molecularly imprinted polypyrrole “graphene” gold nanoparticles modified electrode. <i>Sensors and Actuators B: Chemical</i> , 2014, 192, 642-647.	7.8	154
6	One-Step Synthesis of CuO/Cu ₂ O Heterojunction by Flame Spray Pyrolysis for Cathodic Photoelectrochemical Sensing of L-Cysteine. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 40452-40460.	8.0	145
7	A label-free photoelectrochemical aptasensor based on nitrogen-doped graphene quantum dots for chloramphenicol determination. <i>Biosensors and Bioelectronics</i> , 2015, 74, 1016-1021.	10.1	132
8	Fuel cell-based self-powered electrochemical sensors for biochemical detection. <i>Nano Energy</i> , 2019, 61, 173-193.	16.0	121
9	Photoelectrochemical activity of liquid phase deposited TiO ₂ film for degradation of benzotriazole. <i>Journal of Hazardous Materials</i> , 2010, 175, 96-103.	12.4	104
10	Graphene-doped Bi ₂ S ₃ nanorods as visible-light photoelectrochemical aptasensing platform for sulfadimethoxine detection. <i>Biosensors and Bioelectronics</i> , 2016, 86, 636-642.	10.1	100
11	Gold nanoparticle arrays directly grown on nanostructured indium tin oxide electrodes: Characterization and electroanalytical application. <i>Analytica Chimica Acta</i> , 2005, 540, 299-306.	5.4	96
12	Electrodeposition of palladium and reduced graphene oxide nanocomposites on foam-nickel electrode for electrocatalytic hydrodechlorination of 4-chlorophenol. <i>Journal of Hazardous Materials</i> , 2015, 290, 1-8.	12.4	94
13	A highly sensitive photoelectrochemical sensor for 4-aminophenol based on CdS-graphene nanocomposites and molecularly imprinted polypyrrole. <i>Electrochimica Acta</i> , 2014, 121, 102-108.	5.2	93
14	Simultaneous removal of organic pollutants and heavy metals in wastewater by photoelectrocatalysis: A review. <i>Chemosphere</i> , 2021, 273, 128503.	8.2	93
15	Liquid phase deposition of tungsten doped TiO ₂ films for visible light photoelectrocatalytic degradation of dodecyl-benzenesulfonate. <i>Chemical Engineering Journal</i> , 2011, 167, 190-197.	12.7	92
16	Simultaneous degradation of ofloxacin and recovery of Cu(II) by photoelectrocatalysis with highly ordered TiO ₂ nanotubes. <i>Journal of Hazardous Materials</i> , 2016, 308, 264-275.	12.4	92
17	Cathodic “signal-on” photoelectrochemical aptasensor for chloramphenicol detection using hierarchical porous flower-like Bi-BiOI@C composite. <i>Biosensors and Bioelectronics</i> , 2019, 131, 79-87.	10.1	84
18	Electrochemical Determination of Nitrite Using a Gold Nanoparticles-modified Glassy Carbon Electrode Prepared by the Seed-mediated Growth Technique. <i>Analytical Sciences</i> , 2007, 23, 1421-1425.	1.6	76

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19	Construction of p-n heterojunction film of Cu ₂ O/Fe ₂ O ₃ for efficiently photoelectrocatalytic degradation of oxytetracycline. Journal of Colloid and Interface Science, 2018, 526, 470-479.	9.4	75
20	Visible-Light Induced Self-Powered Sensing Platform Based on a Photofuel Cell. Analytical Chemistry, 2016, 88, 6140-6144.	6.5	70
21	Long-term stability of FeSO ₄ and H ₂ SO ₄ treated chromite ore processing residue (COPR): Importance of H ⁺ and SO ₄ ²⁻ . Journal of Hazardous Materials, 2017, 321, 720-727.	12.4	65
22	Label-free photoelectrochemical aptasensing of diclofenac based on gold nanoparticles and graphene-doped CdS. Sensors and Actuators B: Chemical, 2018, 256, 334-341.	7.8	64
23	Electrocatalytic activity of three-dimensional monolayer of 3-mercaptopropionic acid assembled on gold nanoparticle arrays. Electrochemistry Communications, 2007, 9, 459-464.	4.7	63
24	A photoelectrochemical biosensor for o-aminophenol based on assembling of CdSe and DNA on TiO ₂ film electrode. Biosensors and Bioelectronics, 2014, 53, 301-304.	10.1	63
25	Mo-doped BiVO ₄ and graphene nanocomposites with enhanced photoelectrochemical performance for aptasensing of streptomycin. Carbon, 2017, 120, 194-202.	10.3	59
26	Novel one-step preparation of tungsten loaded TiO ₂ nanotube arrays with enhanced photoelectrocatalytic activity for pollutant degradation and hydrogen production. Catalysis Communications, 2013, 36, 89-93.	3.3	58
27	Visible Light-Driven Membraneless Photocatalytic Fuel Cell toward Self-Powered Aptasensing of PCB77. Analytical Chemistry, 2018, 90, 9662-9666.	6.5	55
28	Novel visible light enhanced Pyrite-Fenton system toward ultrarapid oxidation of p-nitrophenol: Catalytic activity, characterization and mechanism. Chemosphere, 2019, 228, 232-240.	8.2	55
29	In situ anodic stripping of Cd(II) from CdS quantum dots for electrochemical sensing of ciprofloxacin. Sensors and Actuators B: Chemical, 2016, 237, 75-80.	7.8	54
30	Determination of oxalic acid in spinach with carbon nanotubes-modified electrode. Food Chemistry, 2009, 114, 1523-1528.	8.2	53
31	Magnetic loading of TiO ₂ /SiO ₂ /Fe ₃ O ₄ nanoparticles on electrode surface for photoelectrocatalytic degradation of diclofenac. Journal of Hazardous Materials, 2011, 196, 220-227.	12.4	53
32	A self-powered sensor based on molecularly imprinted polymer-coupled graphitic carbon nitride photoanode for selective detection of bisphenol A. Sensors and Actuators B: Chemical, 2018, 259, 394-401.	7.8	53
33	A highly selective electrochemical sensor for 4-chlorophenol determination based on molecularly imprinted polymer and PDDA-functionalized graphene. Sensors and Actuators B: Chemical, 2016, 236, 294-303.	7.8	50
34	Highly Selective Self-Powered Sensing Platform for p-Nitrophenol Detection Constructed with a Photocathode-Based Photocatalytic Fuel Cell. Analytical Chemistry, 2017, 89, 8599-8603.	6.5	50
35	Indirect electrochemical determination of ciprofloxacin by anodic stripping voltammetry of Cd(II) on graphene-modified electrode. Journal of Electroanalytical Chemistry, 2015, 738, 123-129.	3.8	49
36	Dual non-enzymatic glucose sensing on Ni(OH) ₂ /TiO ₂ photoanode under visible light illumination. Electrochimica Acta, 2017, 228, 28-35.	5.2	49

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37	Preparation of BiVO ₄ /ZnO composite film with enhanced visible-light photoelectrocatalytic activity. <i>Ceramics International</i> , 2018, 44, 3672-3677.	4.8	48
38	One-pot hydrothermal synthesis of Bi ₂ O ₃ -WO ₃ p-n heterojunction film for photoelectrocatalytic degradation of norfloxacin. <i>Separation and Purification Technology</i> , 2020, 238, 116428.	7.9	44
39	Liquid phase deposition of WO ₃ /TiO ₂ heterojunction films with high photoelectrocatalytic activity under visible light irradiation. <i>Electrochimica Acta</i> , 2014, 148, 180-186.	5.2	43
40	Origin of photocatalytic activity of W/N-codoped TiO ₂ : H ₂ production and DFT calculation with GGA+U. <i>Applied Catalysis B: Environmental</i> , 2014, 152-153, 73-81.	20.2	43
41	Tungsten and nitrogen co-doped TiO ₂ electrode sensitized with Fe-chlorophyllin for visible light photoelectrocatalysis. <i>Chemical Engineering Journal</i> , 2012, 209, 94-101.	12.7	42
42	Simultaneous Electrochemical Determination of Paracetamol and Diclofenac Based on Poly(diallyldimethylammonium chloride) Functionalized Graphene. <i>Electroanalysis</i> , 2016, 28, 76-82.	2.9	41
43	Ratiometric Self-Powered Sensor for 17 β -Estradiol Detection Based on a Dual-Channel Photocatalytic Fuel Cell. <i>Analytical Chemistry</i> , 2020, 92, 8026-8030.	6.5	41
44	Photoelectrocatalytic activity of liquid phase deposited γ -Fe ₂ O ₃ films under visible light illumination. <i>Journal of Alloys and Compounds</i> , 2015, 648, 719-725.	5.5	40
45	Transformation of arsenic during realgar tailings stabilization using ferrous sulfate in a pilot-scale treatment. <i>Science of the Total Environment</i> , 2019, 668, 32-39.	8.0	40
46	Synthesis of PDDA Functionalized Reduced Graphene Oxide Decorated with Gold Nanoparticles and Its Electrochemical Response toward Levofloxacin. <i>Journal of the Electrochemical Society</i> , 2015, 162, H164-H169.	2.9	39
47	Dual-mode visible light-induced aptasensing platforms for bleomycin detection based on Cd-In ₂ S ₃ heterojunction. <i>Biosensors and Bioelectronics</i> , 2019, 145, 111712.	10.1	39
48	Advanced Functional Electroactive and Photoactive Materials for Monitoring the Environmental Pollutants. <i>Advanced Functional Materials</i> , 2021, 31, 2008227.	14.9	39
49	Synthesis of BiVO ₄ /WO ₃ composite film for highly efficient visible light induced photoelectrocatalytic oxidation of norfloxacin. <i>Journal of Alloys and Compounds</i> , 2019, 787, 284-294.	5.5	38
50	Synthesis of a CdS-decorated Eu-MOF nanocomposite for the construction of a self-powered photoelectrochemical aptasensor. <i>Analyst</i> , 2019, 144, 6617-6624.	3.5	37
51	UV/H ₂ O ₂ degradation of 4-aminoantipyrine: A voltammetric study. <i>Chemical Engineering Journal</i> , 2010, 161, 68-72.	12.7	36
52	An antibody-aptamer sandwich cathodic photoelectrochemical biosensor for the detection of progesterone. <i>Biosensors and Bioelectronics</i> , 2020, 160, 112210.	10.1	36
53	Construction of dual Z-scheme Bi ₂ S ₃ /Bi ₂ O ₃ /WO ₃ ternary film with enhanced visible light photoelectrocatalytic performance. <i>Applied Surface Science</i> , 2020, 505, 144632.	6.1	35
54	Near-Infrared Light-Induced Self-Powered Aptasensing Platform for Aflatoxin B1 Based on Upconversion Nanoparticles-Doped Bi ₂ S ₃ Nanorods. <i>Analytical Chemistry</i> , 2021, 93, 677-682.	6.5	35

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55	Visible light-driven photoelectrocatalysis coupling with electroenzymatic process for degradation of chloramphenicol. <i>Chemical Engineering Journal</i> , 2017, 330, 1380-1389.	12.7	34
56	Stabilization treatment of arsenic-alkali residue (AAR): Effect of the coexisting soluble carbonate on arsenic stabilization. <i>Environment International</i> , 2020, 135, 105406.	10.0	33
57	Enhanced photoelectrocatalytic activity of Cr-doped TiO ₂ nanotubes modified with polyaniline. <i>Materials Science in Semiconductor Processing</i> , 2014, 27, 777-784.	4.0	32
58	A simple electrochemical oxidation method to prepare highly ordered Cr-doped titania nanotube arrays with promoted photoelectrochemical property. <i>Electrochimica Acta</i> , 2012, 68, 178-183.	5.2	31
59	Photovoltammetric behavior and photoelectrochemical determination of p-phenylenediamine on CdS quantum dots and graphene hybrid film. <i>Analytica Chimica Acta</i> , 2015, 884, 29-36.	5.4	30
60	Carbon nanotube-based DNA biosensor for monitoring phenolic pollutants. <i>Mikrochimica Acta</i> , 2009, 166, 21-26.	5.0	29
61	Photoelectrocatalytic degradation of deoxynivalenol on CuO-Cu ₂ O/WO ₃ ternary film: Mechanism and reaction pathways. <i>Science of the Total Environment</i> , 2021, 776, 145840.	8.0	29
62	Visible light-driven photoelectrocatalysis for simultaneous removal of oxytetracycline and Cu (II) based on plasmonic Bi/Bi ₂ O ₃ /TiO ₂ nanotubes. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 1936-1943.	9.4	29
63	Liquid phase deposition of ZnO film for photoelectrocatalytic degradation of p-nitrophenol. <i>Materials Science in Semiconductor Processing</i> , 2014, 17, 104-109.	4.0	28
64	Photoelectrochemical sensing of catechol based on CdS-DNA-pristine graphene nanocomposite film. <i>Sensors and Actuators B: Chemical</i> , 2015, 210, 355-361.	7.8	28
65	A dual-cathode photoelectrocatalysis-electroenzymatic catalysis system by coupling BiVO ₄ photoanode with hemin/Cu and carbon cloth cathodes for degradation of tetracycline. <i>Electrochimica Acta</i> , 2019, 298, 561-569.	5.2	28
66	Electrochemical Determination of Bisphenol A Using a Molecularly Imprinted Chitosan@Acetylene Black Composite Film Modified Glassy Carbon Electrode. <i>Electroanalysis</i> , 2016, 28, 189-196.	2.9	25
67	Photofuel cell coupling with redox cycling as a highly sensitive and selective self-powered sensing platform for the detection of tyrosinase activity. <i>Chemical Communications</i> , 2019, 55, 12040-12043.	4.1	25
68	A visible light-induced self-powered aptasensing platform for kanamycin detection based on mediator-free photofuel cell. <i>Sensors and Actuators B: Chemical</i> , 2019, 292, 129-135.	7.8	25
69	A cathodic photovoltammetric sensor for chloramphenicol based on BiOI and graphene nanocomposites. <i>Sensors and Actuators B: Chemical</i> , 2019, 284, 505-513.	7.8	24
70	Electrochemical sensor for monitoring the photodegradation of catechol based on DNA-modified graphene oxide. <i>Mikrochimica Acta</i> , 2011, 173, 439-443.	5.0	23
71	Photoelectrocatalytic Degradation of Ofloxacin Using Highly Ordered TiO ₂ Nanotube Arrays. <i>Electrocatalysis</i> , 2014, 5, 379-386.	3.0	23
72	Voltammetric behavior of TiO ₂ films on graphite electrodes prepared by liquid phase deposition. <i>Materials Chemistry and Physics</i> , 2004, 88, 398-403.	4.0	22

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73	Graphene and CdS nanocomposite: A facile interface for construction of DNA-based electrochemical biosensor and its application to the determination of phenformin. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 110, 8-14.	5.0	22
74	One-pot synthesis of a CdS-reduced graphene oxide-carbon nitride composite for self-powered photoelectrochemical aptasensing of PCB72. <i>Nanoscale</i> , 2019, 11, 5982-5988.	5.6	22
75	Electrochemical investigation on the interaction of diclofenac with DNA and its application to the construction of a graphene-based biosensor. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 3817-3823.	2.5	20
76	Synthesis of AgCl nanoparticles-loaded hydrotalcite as highly efficient adsorbent for removal of thiocyanate. <i>Chemical Engineering Journal</i> , 2013, 223, 584-591.	12.7	19
77	A novel electrochemical method for ofloxacin determination based on interaction of ofloxacin with cupric ion. <i>Ionics</i> , 2015, 21, 3117-3124.	2.4	19
78	Liquid Phase Deposition of $\text{Fe}_2\text{O}_3/\text{ZnO}$ Heterojunction Film with Enhanced Visible-Light Photoelectrocatalytic Activity for Pollutant Removal. <i>Journal of the Electrochemical Society</i> , 2017, 164, H726-H733.	2.9	19
79	A self-powered aptasensor using the capacitor-amplified signal of a photofuel cell and a portable digital multimeter readout. <i>Chemical Communications</i> , 2020, 56, 10034-10037.	4.1	18
80	Multi-walled carbon nanotubes modified glassy carbon electrode for sensitive determination of ketoconazole. <i>Analytical Methods</i> , 2012, 4, 444.	2.7	17
81	The Influence of Gold Nanoparticles on Simultaneous Determination of Uric Acid and Ascorbic Acid. <i>Analytical Letters</i> , 2009, 43, 22-33.	1.8	16
82	A portable signal-on self-powered aptasensor for ultrasensitive detection of sulfadimethoxine based on dual amplification of a capacitor and biphotoclectrodes. <i>Chemical Communications</i> , 2021, 57, 3700-3703.	4.1	16
83	Liquid phase deposition of hemoglobin/SDS/TiO ₂ hybrid film preserving photoelectrochemical activity. <i>Bioelectrochemistry</i> , 2011, 81, 34-38.	4.6	15
84	Integration of graphene-hemin hybrid materials in an electroenzymatic system for degradation of diclofenac. <i>Electrochimica Acta</i> , 2016, 190, 980-987.	5.2	15
85	An Electrochemical Sensor for Selective Detection of <i>p</i> -Aminophenol Using Hemin-Graphene Composites and Molecularly Imprinted Polymer. <i>Journal of the Electrochemical Society</i> , 2017, 164, B776-B780.	2.9	15
86	Liquid phase deposition of mesoporous TiO ₂ /DNA hybrid film: Characterization and photoelectrochemical investigation. <i>Electrochimica Acta</i> , 2010, 55, 3614-3620.	5.2	14
87	A light-induced self-powered competitive immunosensor for the detection of platelet derived growth factor-BB via an elaborately assembled bioconjugate. <i>Sensors and Actuators B: Chemical</i> , 2020, 316, 128130.	7.8	14
88	Effects of Capping Reagents on the Electron Transfer Reactions on Gold Nanoparticle-Attached Indium Tin Oxide Electrodes. <i>Electroanalysis</i> , 2007, 19, 847-852.	2.9	13
89	Fabrication of Co-Doped ZnO Photoanode by Liquid Phase Deposition for Photoelectrocatalytic Degradation of Ofloxacin under Visible Light. <i>Journal of the Electrochemical Society</i> , 2018, 165, H284-H290.	2.9	13
90	CuFe ₂ O ₄ as heterogeneous catalyst in degradation of <i>p</i> -nitrophenol with photoelectron-Fenton-like process. <i>International Journal of Environmental Studies</i> , 2014, 71, 534-545.	1.6	12

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91	A novel polycatechol/platinum composite film prepared by electrochemical synthesis. Synthetic Metals, 2007, 157, 448-453.	3.9	11
92	Voltammetric monitoring photodegradation of EDTA based on carbon nanotubes-modified electrode. Journal of Hazardous Materials, 2010, 181, 742-746.	12.4	11
93	Tunable electrochemical properties of liquid phase deposited TiO ₂ films. Journal of Applied Electrochemistry, 2008, 38, 1421-1426.	2.9	10
94	Voltammetric Behaviors and Determination of Thiocyanate on Multiwalled Carbon Nanotubes@Cetyltrimethylammonium Bromide Modified Electrode. Electroanalysis, 2018, 30, 2413-2420.	2.9	10
95	Three Dimensional Monolayer of 3-Mercaptopropionic Acid Assembled on Gold Nanoparticles for Electrochemical Determination of Trace Cu(II). Analytical Letters, 2007, 40, 2151-2160.	1.8	9
96	A portable solar light-driven biophotoelectrocatalytic system for pollutant removal powered by photovoltaic cells. Journal of Hazardous Materials, 2022, 435, 128989.	12.4	8
97	A miniature self-powered electrochemical sensor for the determination of patulin based on an integrated photocatalytic fuel cell. Sensors and Actuators B: Chemical, 2022, 369, 132259.	7.8	8
98	Liquid Phase Deposition of Nickel-Doped ZnO Film with Enhanced Visible Light Photoelectrocatalytic Activity. Journal of the Electrochemical Society, 2019, 166, H685-H690.	2.9	7
99	Cl-Assisted Large Scale Synthesis of Cm-Scale Buckypapers of Fe ₃ C-Filled Carbon Nanotubes with Pseudo-Capacitor Properties: The Key Role of SBA-16 Catalyst Support as Synthesis Promoter. Materials, 2017, 10, 1216.	2.9	6
100	Integration of redox cycling in a photoelectrochemical sensing platform for tyrosinase activity evaluation. Electrochemistry Communications, 2019, 108, 106555.	4.7	6
101	A near-infrared light-driven photoelectrochemical aptasensing platform for adenosine triphosphate detection based on Yb-doped Bi ₂ S ₃ nanorods. Journal of Materials Chemistry B, 2022, 10, 3524-3530.	5.8	6
102	Magnetic Field Effect on the Electrochemical Behavior of Hemoglobin. Electroanalysis, 2001, 13, 888-890.	2.9	5
103	A Metal-Free Approach Based on Graphene Oxide-Modified Electrode for Monitoring the Photoelectrocatalytic Degradation of EDTA. Electroanalysis, 2011, 23, 2373-2378.	2.9	5
104	A long path length spectroelectrochemical behavior analysis of the coabsorption system. Talanta, 2000, 52, 903-908.	5.5	4
105	Immobilization of hemoglobin on platinum nanoparticles-modified glassy carbon electrode for H ₂ O ₂ sensing. Wuhan University Journal of Natural Sciences, 2010, 15, 160-164.	0.4	4
106	Voltammetric behaviors of an emerging pollutant benzotriazole on multiwall carbon nanotubes (MWNTs)-Nafion modified electrode in various pH mediums. Ionics, 2016, 22, 2059-2066.	2.4	4
107	Reversibility-Dependent Photovoltammetric Behavior of Electroactive Compounds on a CdS-Graphene Hybrid Film Electrode. Chemistry - A European Journal, 2017, 23, 13294-13299.	3.3	4
108	Photovoltammetry of <i>p</i> -Phenylenediamine Mediated by Hexacyanoferrate Immobilized on CdS-Graphene Nanocomposites. Journal of the Electrochemical Society, 2019, 166, H87-H93.	2.9	2

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109	A Label-Free Electrochemical Biosensor for Kanamycin Determination Based on Single-Stranded DNA Immobilized on Graphene-Cds-Chitosan Modified Electrode. Current Analytical Chemistry, 2018, 14, 598-603.	1.2	2
110	Recent Advances in Metal Nanoparticle-Attached Electrodes. , 0, , 297-318.		1