Yong Zhang

List of Publications by Citations

196 papers	8,320 citations	52 h-index	79 g-index
198 ext. papers	9,598 ext. citations	7.9 avg, IF	6.35 L-index

#	Paper	IF	Citations
196	Nitrogen doping effects on the structure of graphene. *Applied Surface Science*, **2011**, 257, 9193-9198	6.7	400
195	Triple signal amplification of graphene film, polybead carried gold nanoparticles as tracing tag and silver deposition for ultrasensitive electrochemical immunosensing. *Analytical Chemistry*, **2012**, 84, 3662-8	7.8	212
194	Ultrasensitive multiplexed immunoassay with electrochemical stripping analysis of silver nanoparticles catalytically deposited by gold nanoparticles and enzymatic reaction. *Analytical Chemistry*, **2011**, 83, 2726-32	7.8	197
193	Structurally Well-Defined Au@Cu2- x S Core-Shell Nanocrystals for Improved Cancer Treatment Based on Enhanced Photothermal Efficiency. *Advanced Materials*, **2016**, 28, 3094-101	24	178
192	Streptavidin-Functionalized Silver-Nanoparticle-Enriched Carbon Nanotube Tag for Ultrasensitive Multiplexed Detection of Tumor Markers. *Advanced Functional Materials*, **2011**, 21, 2938-2943	15.6	163
191	A disposable electrochemical immunosensor for flow injection immunoassay of carcinoembryonic antigen. *Biosensors and Bioelectronics*, **2006**, 22, 102-8	11.8	158
190	Label-free immunosensor for the detection of kanamycin using Ag@Fe□□nanoparticles and thionine mixed graphene sheet. *Biosensors and Bioelectronics*, **2013**, 48, 224-9	11.8	154
189	Cathodic electrochemiluminescence immunosensor based on nanocomposites of semiconductor carboxylated g-C3N4 and graphene for the ultrasensitive detection of squamous cell carcinoma antigen. *Biosensors and Bioelectronics*, **2014**, 55, 330-6	11.8	134
188	Sulfur-Doped Graphene-Based Immunological Biosensing Platform for Multianalysis of Cancer Biomarkers. *ACS Applied Materials & Interfaces*, **2017**, 9, 37637-37644	9.5	128
187	Self-supported CoMoS4 nanosheet array as an efficient catalyst for hydrogen evolution reaction at neutral pH. *Nano Research*, **2018**, 11, 2024-2033	10	120
186	3D Nanostructured Palladium-Functionalized Graphene-Aerogel-Supported FeO for Enhanced Ru(bpy)-Based Electrochemiluminescent Immunosensing of Prostate Specific Antigen. *ACS Applied Materials & Interfaces*, **2017**, 9, 35260-35267	9.5	111
185	A MoS2 nanosheet□educed graphene oxide hybrid: an efficient electrocatalyst for electrocatalytic N2 reduction to NH3 under ambient conditions. *Journal of Materials Chemistry A*, **2019**, 7, 2524-2528	13	108
184	A silver-palladium alloy nanoparticle-based electrochemical biosensor for simultaneous detection of ractopamine, clenbuterol and salbutamol. *Biosensors and Bioelectronics*, **2013**, 49, 14-9	11.8	108
183	A critical review on membrane hybrid system for nutrient recovery from wastewater. *Chemical Engineering Journal*, **2018**, 348, 143-156	14.7	105
182	Flow-injection chemiluminescent immunoassay for alpha-fetoprotein based on epoxysilane modified glass microbeads. *Journal of Immunological Methods*, **2006**, 312, 61-7	2.5	105
181	A disposable multianalyte electrochemical immunosensor array for automated simultaneous determination of tumor markers. *Clinical Chemistry*, **2007**, 53, 1495-502	5.5	105
180	Cobalt□orate nanowire array as a high-performance catalyst for oxygen evolution reaction in near-neutral media. *Journal of Materials Chemistry A*, **2017**, 5, 7291-7294	13	101

179	Sensitive Electrochemical Sensor for Simultaneous Determination of Dopamine, Ascorbic Acid, and Uric Acid Enhanced by Amino-group Functionalized Mesoporous Fe3O4@Graphene Sheets. *Electrochimica Acta*, **2014**, 116, 244-249	6.7	101
178	Label-free electrochemical immunosensor based on flower-like Ag/MoS2/rGO nanocomposites for ultrasensitive detection of carcinoembryonic antigen. *Sensors and Actuators B: Chemical*, **2018**, 255, 125-132	8.5	99
177	A novel ECL biosensor for the detection of concanavalin A based on glucose functionalized NiCoS nanoparticles-grown on carboxylic graphene as quenching probe. *Biosensors and Bioelectronics*, **2017**, 96, 113-120	11.8	98
176	Tremella-like Ni3S2/MnS with ultrathin nanosheets and abundant oxygen vacancies directly used for high speed overall water splitting. *Applied Catalysis B: Environmental*, **2019**, 257, 117899	21.8	93
175	Synthesis of Au@Pd core□shell nanoparticles with controllable size and their application in surface-enhanced Raman spectroscopy. *Chemical Physics Letters*, **2005**, 408, 354-359	2.5	93
174	Macroporous graphene capped FeO for amplified electrochemiluminescence immunosensing of carcinoembryonic antigen detection based on CeO@TiO. *Biosensors and Bioelectronics*, **2017**, 91, 842-848	11.8	89
173	Label-free electrochemical immunosensor for prostate-specific antigen based on silver hybridized mesoporous silica nanoparticles. *Analytical Biochemistry*, **2013**, 434, 123-7	3.1	89
172	A sensitive electrochemiluminescence immunosensor based on Ru(bpy) in 3D CuNi oxalate as luminophores and graphene oxide-polyethylenimine as released Ru(bpy) initiator. *Biosensors and Bioelectronics*, **2017**, 89, 1020-1025	11.8	88
171	Visible light photoelectrochemical aptasensor for adenosine detection based on CdS/PPy/g-C3N4 nanocomposites. *Biosensors and Bioelectronics*, **2016**, 86, 439-445	11.8	86
170	Electrochemiluminescent immunosensing of prostate-specific antigen based on silver nanoparticles-doped Pb (II) metal-organic framework. *Biosensors and Bioelectronics*, **2016**, 79, 379-85	11.8	85
169	Label-free immunosensor based on Pd nanoplates for amperometric immunoassay of alpha-fetoprotein. *Biosensors and Bioelectronics*, **2014**, 53, 305-9	11.8	85
168	An amperometric immunosensor for separation-free immunoassay of CA125 based on its covalent immobilization coupled with thionine on carbon nanofiber. *Journal of Immunological Methods*, **2007**, 322, 12-9	2.5	85
167	Label-Free Electrochemiluminescent Immunosensor for Detection of Carcinoembryonic Antigen Based on Nanocomposites of GO/MWCNTs-COOH/Au@CeO□*ACS Applied Materials & Interfaces*, **2015**, 7, 19260-7	9.5	83
166	Determination of methyl parathion by a molecularly imprinted sensor based on nitrogen doped graphene sheets. *Electrochimica Acta*, **2014**, 116, 366-371	6.7	82
165	Synthesis of Self-Supported Amorphous CoMoO4 Nanowire Array for Highly Efficient Hydrogen Evolution Reaction. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 10093-10098	8.3	78
164	CoCO□2HO derived CoO nanorods array: a high-efficiency 1D electrocatalyst for alkaline oxygen evolution reaction. *Chemical Communications*, **2018**, 54, 1533-1536	5.8	77
163	In situ electrochemical development of copper oxide nanocatalysts within a TCNQ nanowire array: a highly conductive electrocatalyst for the oxygen evolution reaction. *Chemical Communications*, **2018**, 54, 1425-1428	5.8	75
162	Electrochemical stripping analysis of nanogold label-induced silver deposition for ultrasensitive multiplexed detection of tumor markers. *Analytica Chimica Acta*, **2012**, 721, 1-6	6.6	74

161	Ultrasensitive electrochemical immunosensor for carbohydrate antigen 72-4 based on dual signal amplification strategy of nanoporous gold and polyaniline-Au asymmetric multicomponent nanoparticles. *Biosensors and Bioelectronics*, **2015**, 64, 51-6	11.8	68
160	The role of nanomaterials in electroanalytical biosensors: A mini review. *Journal of Electroanalytical Chemistry*, **2016**, 781, 401-409	4.1	68
159	Sensitive Insulin Detection based on Electrogenerated Chemiluminescence Resonance Energy Transfer between Ru(bpy)3(2+) and Au Nanoparticle-Doped Cyclodextrin-Pb (II) Metal-Organic Framework. *ACS Applied Materials & Interfaces*, **2016**, 8, 10121-7	9.5	68
158	Disposable immunosensor array for ultrasensitive detection of tumor markers using glucose oxidase-functionalized silica nanosphere tags. *Biosensors and Bioelectronics*, **2011**, 26, 3782-7	11.8	64
157	Sandwich-type electrochemical immunosensor for CEA detection based on Ag/MoS2@Fe3O4 and an analogous ELISA method with total internal reflection microscopy. *Sensors and Actuators B: Chemical*, **2018**, 266, 561-569	8.5	63
156	3D Coral-Like NiS on Ni Foam as a Bifunctional Electrocatalyst for Overall Water Splitting. *ACS Applied Materials & Interfaces*, **2018**, 10, 31330-31339	9.5	62
155	Chemiluminescent immunosensor for CA19-9 based on antigen immobilization on a cross-linked chitosan membrane. *Journal of Immunological Methods*, **2004**, 291, 165-74	2.5	61
154	Graphene-Based Optical and Electrochemical Biosensors: A Review. *Analytical Letters*, **2013**, 46, 1-17	2.2	60
153	Corallite-like Magnetic Fe3O4@MnO2@Pt Nanocomposites as Multiple Signal Amplifiers for the Detection of Carcinoembryonic Antigen. *ACS Applied Materials & Interfaces*, **2015**, 7, 18786-93	9.5	58
152	Sandwich-type electrochemical immunosensor for the detection of AFP based on Pd octahedral and APTES-M-CeO GS as signal labels. *Biosensors and Bioelectronics*, **2016**, 79, 482-7	11.8	58
151	Facile synthesis of cuprous oxide nanowires decorated graphene oxide nanosheets nanocomposites and its application in label-free electrochemical immunosensor. *Biosensors and Bioelectronics*, **2017**, 87, 745-751	11.8	58
150	Electrochemical aptasensor based on gold modified graphene nanocomposite with different morphologies for ultrasensitive detection of Pb2+. *Sensors and Actuators B: Chemical*, **2019**, 288, 325-331	8.5	57
149	Dual-responsive electrochemical immunosensor for prostate specific antigen detection based on Au-CoS/graphene and CeO/ionic liquids doped with carboxymethyl chitosan complex. *Biosensors and Bioelectronics*, **2017**, 94, 141-147	11.8	55
148	Ultrasensitive electrochemical immunoassay for squamous cell carcinoma antigen using dumbbell-like Pt-Fe nanoparticles as signal amplification. *Biosensors and Bioelectronics*, **2013**, 46, 91-6	11.8	55
147	Ultrasensitive electrochemical immunosensors for multiplexed determination using mesoporous platinum nanoparticles as nonenzymatic labels. *Analytica Chimica Acta*, **2014**, 807, 44-50	6.6	54
146	A novel label-free photoelectrochemical sensor based on N,S-GQDs and CdS co-sensitized hierarchical ZnSnO cube for detection of cardiac troponin I. *Biosensors and Bioelectronics*, **2018**, 106, 14-20	11.8	53
145	Highly selective fluorescent chemosensor for detection of Fe(3+) based on Fe3O4@ZnO. *Scientific Reports*, **2016**, 6, 23558	4.9	53
144	Photoelectrochemical sensitive detection of insulin based on CdS/polydopamine co-sensitized WO nanorod and signal amplification of carbon nanotubes@polydopamine. *Biosensors and Bioelectronics*, **2017**, 96, 345-350	11.8	52

143	Ferritin-Based Electrochemiluminescence Nanosurface Energy Transfer System for Procalcitonin Detection Using HWRGWVC Heptapeptide for Site-Oriented Antibody Immobilization. *Analytical Chemistry*, **2019**, 91, 7145-7152	7.8	52
142	Plasmon enhanced photoelectrochemical sensing of mercury (II) ions in human serum based on Au@Ag nanorods modified TiO nanosheets film. *Biosensors and Bioelectronics*, **2016**, 79, 866-73	11.8	52
141	A photoelectrochemical sensor for highly sensitive detection of amyloid beta based on sensitization of Mn:CdSe to BiWO/CdS. *Biosensors and Bioelectronics*, **2018**, 122, 37-42	11.8	51
140	A Compatible Sensitivity Enhancement Strategy for Electrochemiluminescence Immunosensors Based on the Biomimetic Melanin-Like Deposition. *Analytical Chemistry*, **2017**, 89, 13049-13053	7.8	50
139	Development of an immunochromatographic strip test for the rapid detection of zearalenone in corn. *Journal of Agricultural and Food Chemistry*, **2014**, 62, 11116-21	5.7	48
138	An electrochemical aptasensor based on gold-modified MoS2/rGO nanocomposite and gold-palladium-modified Fe-MOFs for sensitive detection of lead ions. *Sensors and Actuators B: Chemical*, **2020**, 319, 128313	8.5	47
137	An ultrasensitive enzyme-free electrochemical immunosensor for CA125 using Au@Pd core-shell nanoparticles as labels and platforms for signal amplification. *Journal of Materials Chemistry B*, **2013**, 1, 4052-4058	7.3	46
136	A signal-off sandwich photoelectrochemical immunosensor using TiO2 coupled with CdS as the photoactive matrix and copper (II) ion as inhibitor. *Biosensors and Bioelectronics*, **2015**, 65, 97-102	11.8	45
135	Ultrasensitive electrochemical aptasensor for the detection of thrombin based on dual signal amplification strategy of Au@GS and DNA-CoPd NPs conjugates. *Biosensors and Bioelectronics*, **2016**, 80, 640-646	11.8	45
134	Amorphous Co-doped MoOx nanospheres with a core shell structure toward an effective oxygen evolution reaction. *Journal of Materials Chemistry A*, **2019**, 7, 1005-1012	13	45
133	Anatase TiO2 based photoelectrochemical sensor for the sensitive determination of dopamine under visible light irradiation. *New Journal of Chemistry*, **2015**, 39, 1483-1487	3.6	43
132	Nanosheet Au/Co3O4-based ultrasensitive nonenzymatic immunosensor for melanoma adhesion molecule antigen. *Biosensors and Bioelectronics*, **2014**, 58, 345-50	11.8	43
131	BBS4 and BBS5 show functional redundancy in the BBSome to regulate the degradative sorting of ciliary sensory receptors. *Scientific Reports*, **2015**, 5, 11855	4.9	43
130	Ni(OH)/NGQDs-based electrochemiluminescence immunosensor for prostate specific antigen detection by coupling resonance energy transfer with FeO@MnO composites. *Biosensors and Bioelectronics*, **2018**, 99, 346-352	11.8	43
129	Ultrasensitive Label-free Electrochemical Immunosensor based on Multifunctionalized Graphene Nanocomposites for the Detection of Alpha Fetoprotein. *Scientific Reports*, **2017**, 7, 42361	4.9	41
128	Quenched electrochemiluminescence of Ag nanoparticles functionalized g-C N by ferrocene for highly sensitive immunosensing. *Analytica Chimica Acta*, **2015**, 854, 40-6	6.6	41
127	Visible-light driven photoelectrochemical immunosensor for insulin detection based on MWCNTs@SnS2@CdS nanocomposites. *Biosensors and Bioelectronics*, **2016**, 86, 301-307	11.8	41
126	Metal organic framework nanofibers derived Co3O4-doped carbon-nitrogen nanosheet arrays for high efficiency electrocatalytic oxygen evolution. *Carbon*, **2018**, 137, 433-441	10.4	41

125	Ultrasensitive non-enzymatic and non-mediator electrochemical biosensor using nitrogen-doped graphene sheets for signal amplification and nanoporous alloy as carrier. *Electrochimica Acta*, **2013**, 97, 105-111	6.7	40
124	Morphology-dependent NiMoO4/carbon composites for high performance supercapacitors. *Inorganic Chemistry Communication*, **2020**, 111, 107631	3.1	40
123	Nanotechnology and nanomaterial-based no-wash electrochemical biosensors: from design to application. *Nanoscale*, **2019**, 11, 19105-19118	7.7	39
122	Quench-Type Electrochemiluminescence Immunosensor Based on Resonance Energy Transfer from Carbon Nanotubes and Au-Nanoparticles-Enhanced -CN to CuO@Polydopamine for Procalcitonin Detection. *ACS Applied Materials & Interfaces*, **2020**, 12, 8006-8015	9.5	39
121	Facile fabrication of an electrochemical aptasensor based on magnetic electrode by using streptavidin modified magnetic beads for sensitive and specific detection of Hg(2.). *Biosensors and Bioelectronics*, **2016**, 82, 9-13	11.8	39
120	Synthesis and Application of CeO/SnS Heterostructures as a Highly Efficient Coreaction Accelerator in the Luminol-Dissolved O System for Ultrasensitive Biomarkers Immunoassay. *Analytical Chemistry*, **2019**, 91, 14066-14073	7.8	39
119	Ultrasensitive electrochemical immunosensor for zeranol detection based on signal amplification strategy of nanoporous gold films and nano-montmorillonite as labels. *Analytica Chimica Acta*, **2013** , 758, 72-9	6.6	39
118	Ultrasensitive non-mediator electrochemical immunosensors using Au/Ag/Au core/double shell nanoparticles as enzyme-mimetic labels. *Talanta*, **2014**, 124, 60-6	6.2	38
117	Electrochemical immunosensor for □fetoprotein detection using ferroferric oxide and horseradish peroxidase as signal amplification labels. *Analytical Biochemistry*, **2014**, 465, 121-6	3.1	38
116	Construction of label-free electrochemical immunosensor on mesoporous carbon nanospheres for breast cancer susceptibility gene. *Analytica Chimica Acta*, **2013**, 770, 62-7	6.6	37
115	A sandwich-type photoelectrochemical immunosensor for NT-pro BNP detection based on F-BiWO/AgS and GO/PDA for signal amplification. *Biosensors and Bioelectronics*, **2019**, 131, 299-306	11.8	36
114	A label-free electrochemiluminescence immunosensor based on KNbO3-Au nanoparticles@Bi2S3 for the detection of prostate specific antigen. *Biosensors and Bioelectronics*, **2015**, 74, 104-12	11.8	34
113	Nanobody-Based Electrochemical Immunoassay for Ultrasensitive Determination of Apolipoprotein-A1 Using Silver Nanoparticles Loaded Nanohydroxyapatite as Label. *Analytical Chemistry*, **2015**, 87, 11209-14	7.8	34
112	Photoelectrochemical Immunosensor for Detection of Carcinoembryonic Antigen Based on 2D TiO2 Nanosheets and Carboxylated Graphitic Carbon Nitride. *Scientific Reports*, **2016**, 6, 27385	4.9	34
111	An ITO-based point-of-care colorimetric immunosensor for ochratoxin A detection. *Talanta*, **2018**, 188, 593-599	6.2	34
110	Nanoporous PtCo-based ultrasensitive enzyme-free immunosensor for zeranol detection. *Biosensors and Bioelectronics*, **2013**, 42, 367-72	11.8	33
109	A photoelectrochemical biosensor for fibroblast-like synoviocyte cell using visible light-activated NCQDs sensitized-ZnO/CH3NH3PbI3 heterojunction. *Biosensors and Bioelectronics*, **2016**, 77, 330-8	11.8	32
108	Ultrasensitive electrochemiluminescence immunosensor based on Ru(bpy)32+ and Ag nanoparticles doped SBA-15 for detection of cancer antigen 15-3. *Sensors and Actuators B: Chemical* , **2013**, 188, 462-468	8.5	32

107	A novel multi-amplification photoelectrochemical immunoassay based on copper(II) enhanced polythiophene sensitized graphitic carbon nitride nanosheet. *Biosensors and Bioelectronics*, **2014**, 62, 315-9	11.8	32
106	Electrochemical DNA probe for Hg(2+) detection based on a triple-helix DNA and Multistage Signal Amplification Strategy. *Biosensors and Bioelectronics*, **2016**, 86, 907-912	11.8	32
105	Electrochemiluminescence immunosensing strategy based on the use of Au@Ag nanorods as a peroxidase mimic and NH4CoPO4 as a supercapacitive supporter: Application to the determination of carcinoembryonic antigen. *Mikrochimica Acta*, **2015**, 182, 1421-1429	5.8	31
104	Ultrasensitive immunoassay for CA125 detection using acid site compound as signal and enhancer. *Talanta*, **2015**, 144, 535-41	6.2	31
103	Cubic Cu2O nanoframes with a unique edge-truncated structure and a good electrocatalytic activity for immunosensor application. *Biosensors and Bioelectronics*, **2016**, 78, 167-173	11.8	31
102	A generalized in situ electrodeposition of Zn doped CdS-based photoelectrochemical strategy for the detection of two metal ions on the same sensing platform. *Biosensors and Bioelectronics*, **2016**, 77, 936-41	11.8	31
101	Ultrasensitive enzyme-free immunoassay for squamous cell carcinoma antigen using carbon supported Pd-Au as electrocatalytic labels. *Analytica Chimica Acta*, **2014**, 833, 9-14	6.6	31
100	A novel immunosensor based on an alternate strategy of electrodeposition and self-assembly. *Biosensors and Bioelectronics*, **2012**, 35, 277-283	11.8	31
99	Ultrasensitive photoelectrochemical aptasensing of miR-155 using efficient and stable CH3NH3PbI3 quantum dots sensitized ZnO nanosheets as light harvester. *Biosensors and Bioelectronics*, **2016**, 85, 142-150	11.8	31
98	Ultrasensitive photoelectrochemical immunosensor for insulin detection based on dual inhibition effect of CuS-SiO2 composite on CdS sensitized C-TiO2. *Sensors and Actuators B: Chemical*, **2018**, 258, 1-9	8.5	31
97	A label-free electrochemiluminescence immunosensor based on EuPO4 nanowire for the ultrasensitive detection of Prostate specific antigen. *Biosensors and Bioelectronics*, **2016**, 80, 352-358	11.8	30
96	An electrochemical sensor based on Fe3O4@PANI nanocomposites for sensitive detection of Pb2+ and Cd2+. *Analytical Methods*, **2018**, 10, 4784-4792	3.2	30
95	Electrochemical Immunoassay of Human Chorionic Gonadotrophin Based on Its Immobilization in Gold Nanoparticles-Chitosan Membrane. *Electroanalysis*, **2006**, 18, 670-676	3	29
94	Dual-Mode Electrochemical Immunoassay for Insulin Based on CuS-Au as a Double Signal Indicator. *ACS Applied Materials & Interfaces*, **2018**, 10, 38791-38798	9.5	29
93	A dual-signaling electrochemical ratiometric method for sensitive detection of carcinoembryonic antigen based on Au-Cu2S-CuS/graphene and Au-CeO2 supported toluidine blue complex. *Sensors and Actuators B: Chemical*, **2018**, 256, 504-511	8.5	28
92	Enabling Electrocatalytic N2 Reduction to NH3 by Y2O3 Nanosheet under Ambient Conditions. *Industrial & Engineering Chemistry Research*, **2018**, 57, 16622-16627	3.9	28
91	Label-free electrochemical immunosensor based on enhanced signal amplification between Au@Pd and CoFe2O4/graphene nanohybrid. *Scientific Reports*, **2016**, 6, 23391	4.9	27
90	Simple synthesis of silver nanoparticles functionalized cuprous oxide nanowires nanocomposites and its application in electrochemical immunosensor. *Sensors and Actuators B: Chemical*, **2016**, 236, 241-248	8.5	27

89	Ultrasensitive Photoelectrochemical Biosensing Platform for Detecting N-Terminal Pro-brain Natriuretic Peptide Based on SnO/SnS/mpg-CN Amplified by PbS/SiO. *ACS Applied Materials & Interfaces*, **2018**, 10, 31080-31087	9.5	27
88	Sulfur Incorporated CoFe2O4/Multiwalled Carbon Nanotubes toward Enhanced Oxygen Evolution Reaction. *Electrochimica Acta*, **2017**, 247, 843-850	6.7	26
87	A network signal amplification strategy of ultrasensitive photoelectrochemical immunosensing carcinoembryonic antigen based on CdSe/melamine network as label. *Biosensors and Bioelectronics*, **2016**, 85, 764-770	11.8	26
86	Dual Intrareticular Oxidation of Mixed-Ligand Metal-Organic Frameworks for Stepwise Electrochemiluminescence. *Journal of the American Chemical Society*, **2021**, 143, 3049-3053	16.4	26
85	Core@shell sub-ten-nanometer noble metal nanoparticles with a controllable thin Pt shell and their catalytic activity towards oxygen reduction. *Nano Research*, **2015**, 8, 271-280	10	25
84	Label-free electrochemical immunosensor based on biocompatible nanoporous FeO and biotin-streptavidin system for sensitive detection of zearalenone. *Analyst, The*, **2020**, 145, 1368-1375	5	25
83	Coassembly and high ORR performance of monodisperse Pt nanocrystals with a mesopore-rich nitrogen-doped graphene aerogel. *Journal of Materials Chemistry A*, **2017**, 5, 17544-17548	13	25
82	Label-free immunosensor based on Au@Ag2S nanoparticles/magnetic chitosan matrix for sensitive determination of ractopamine. *Journal of Electroanalytical Chemistry*, **2015**, 741, 14-19	4.1	25
81	Ni(OH)2 nanoarrays based molecularly imprinted polymer electrochemical sensor for sensitive detection of sulfapyridine. *Sensors and Actuators B: Chemical*, **2019**, 287, 551-556	8.5	25
80	An ultrasensitive squamous cell carcinoma antigen biosensing platform utilizing double-antibody single-channel amplification strategy. *Biosensors and Bioelectronics*, **2015**, 72, 156-9	11.8	24
79	Label-free ECL immunosensor for the early diagnosis of rheumatoid arthritis based on asymmetric heterogeneous polyaniline-gold nanomaterial. *Sensors and Actuators B: Chemical*, **2018**, 257, 354-361	8.5	23
78	Yolk-shell nanovesicles endow glutathione-responsive concurrent drug release and T MRI activation for cancer theranostics. *Biomaterials*, **2020**, 244, 119979	15.6	22
77	A self-powered photoelectrochemical cathodic aptasensor for the detection of 17β-estradiol based on FeOOH/InS photoanode. *Biosensors and Bioelectronics*, **2020**, 154, 112089	11.8	22
76	Ultrasensitive photoelectrochemical immunosensor based on Cu-doped TiO2 and carbon nitride for detection of carcinoembryonic antigen. *Carbon*, **2019**, 146, 276-283	10.4	21
75	Label-free electrochemical immunosensor with palladium nanoparticles functionalized MoS2/NiCo heterostructures for sensitive procalcitonin detection. *Sensors and Actuators B: Chemical*, **2020**, 312, 127980	8.5	21
74	Aptamer based electrochemiluminescent thrombin assay using carbon dots anchored onto silver-decorated polydopamine nanospheres. *Mikrochimica Acta*, **2018**, 185, 85	5.8	21
73	A novel label-free photoelectrochemical immunosensor based on NCQDs and BiS co-sensitized hierarchical mesoporous SnO microflowers for detection of NT-proBNP. *Journal of Materials Chemistry B*, **2018**, 6, 7634-7642	7.3	21
72	Electrochemiluminescence sensor based on cationic polythiophene derivative and NH2-graphene for dopamine detection. *RSC Advances*, **2015**, 5, 5432-5437	3.7	20

71	In situ Formed Co(TCNQ) Metal-Organic Framework Array as a High-Efficiency Catalyst for Oxygen Evolution Reactions. *Chemistry - A European Journal*, **2018**, 24, 2075-2079	4.8	20
70	Fabrication and high ORR performance of MnO nanopyramid layers with enriched oxygen vacancies. *Chemical Communications*, **2018**, 54, 9639-9642	5.8	20
69	Label-free photoelectrochemical immunosensor for amyloid protein detection based on SnO/CdCO/CdS synthesized by one-pot method. *Biosensors and Bioelectronics*, **2019**, 126, 23-29	11.8	20
68	Disposable competitive-type immunoassay for determination of aflatoxin B1 via detection of copper ions released from Cu-apatite. *Talanta*, **2016**, 147, 556-60	6.2	19
67	Metal oxide- and N-codoped carbon nanosheets: facile synthesis derived from MOF nanofibers and their application in oxygen evolution. *Chemical Communications*, **2018**, 54, 264-267	5.8	19
66	Electrochemical aptasensor based on gold modified thiol graphene as sensing platform and gold-palladium modified zirconium metal-organic frameworks nanozyme as signal enhancer for ultrasensitive detection of mercury ions. *Journal of Colloid and Interface Science*, **2022**, 606, 510-517	9.3	19
65	A CeO-matrical enhancing ECL sensing platform based on the BiS-labeled inverted quenching mechanism for PSA detection. *Journal of Materials Chemistry B*, **2016**, 4, 2963-2971	7.3	18
64	Pure nitrogen-doped graphene aerogel with rich micropores yields high ORR performance. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2019**, 242, 1-5	3.1	17
63	Preparation of preferentially exposed poison-resistant Pt(111) nanoplates with a nitrogen-doped graphene aerogel. *Chemical Communications*, **2016**, 52, 13815-13818	5.8	17
62	A robust electrochemiluminescence immunoassay for carcinoembryonic antigen detection based on a microtiter plate as a bridge and Au@Pd nanorods as a peroxidase mimic. *Analyst, The*, **2016**, 141, 337-45	5	17
61	Visible-light driven Photoelectrochemical Immunosensor Based on SnS@mpg-CN for Detection of Prostate Specific Antigen. *Scientific Reports*, **2017**, 7, 4629	4.9	17
60	A sandwich-type immunosensor using Pd-Pt nanocrystals as labels for sensitive detection of human tissue polypeptide antigen. *Nanotechnology*, **2014**, 25, 055102	3.4	16
59	Core/sheath structured ultralong MnO/PPy nanowires feature improved conductivity and stability for supercapacitor. *Journal of Colloid and Interface Science*, **2020**, 559, 39-44	9.3	16
58	Microhydrangeas with a high ratio of low valence MnO are capable of extremely fast degradation of organics. *Chemical Communications*, **2018**, 54, 7330-7333	5.8	16
57	Photoelectrochemical determination of Hg(II) via dual signal amplification involving SPR enhancement and a folding-based DNA probe. *Mikrochimica Acta*, **2017**, 184, 1379-1387	5.8	15
56	An ultrasensitive electrochemical immunosensor for determination of estradiol using coralloid Cu2S nanostructures as labels. *RSC Advances*, **2015**, 5, 6512-6517	3.7	15
55	Enhanced sensing performance of supported graphitic carbon nitride nanosheets and the fabrication of electrochemiluminescent biosensors for IgG. *Analyst, The*, **2015**, 140, 8172-6	5	15
54	A Novel Controlled Release Immunosensor based on Benzimidazole Functionalized SiO2 and Cyclodextrin Functionalized Gold. *Scientific Reports*, **2016**, 6, 19797	4.9	15

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