Shiyun Ai

List of Publications by Year
in descending order

192	6,502	53660	106150
papers	citations	45 h-index	65 g-index

196	196	196	6813
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A simple and sensitive fluorescent sensor for methyl parathion based on l -tyrosine methyl ester functionalized carbon dots. Biosensors and Bioelectronics, 2015, 68, 20-26.	5.3	207
2	Electrochemical oxidative determination of 4-nitrophenol based on a glassy carbon electrode modified with a hydroxyapatite nanopowder. Mikrochimica Acta, 2010, 169, 87-92.	2.5	166
3	Enhanced Photoelectrochemical Method for Sensitive Detection of Protein Kinase A Activity Using TiO₂/g-C₃N₄, PAMAM Dendrimer, and Alkaline Phosphatase. Analytical Chemistry, 2017, 89, 2369-2376.	3.2	153
4	Applications of two-dimensional layered nanomaterials in photoelectrochemical sensors: A comprehensive review. Coordination Chemistry Reviews, 2021, 447, 214156.	9.5	136
5	Photoelectrochemical biosensor for microRNA detection based on a MoS2/g-C3N4/black TiO2 heterojunction with Histostar@AuNPs for signal amplification. Biosensors and Bioelectronics, 2019, 128, 137-143.	5.3	107
6	Peroxidase-like activity of manganese selenide nanoparticles and its analytical application for visual detection of hydrogen peroxide and glucose. Sensors and Actuators B: Chemical, 2014, 193, 255-262.	4.0	102
7	Electrochemical behaviour of Sudan I at Fe3O4 nanoparticles modified glassy carbon electrode and its determination in food samples. Food Chemistry, 2011, 127, 1348-1353.	4.2	100
8	Recent advances on signal amplification strategies in photoelectrochemical sensing of microRNAs. Biosensors and Bioelectronics, 2020, 166, 112476.	5.3	95
9	A Cu2(OH)3Cl-CeO2 nanocomposite with peroxidase-like activity, and its application to the determination of hydrogen peroxide, glucose and cholesterol. Mikrochimica Acta, 2015, 182, 1733-1738.	2.5	89
10	Electrochemical, electrochemiluminescent and photoelectrochemical bioanalysis of epigenetic modifiers: A comprehensive review. Coordination Chemistry Reviews, 2020, 424, 213519.	9.5	85
11	Colorimetric sensing of dopamine based on the aggregation of gold nanoparticles induced by copper ions. Analytical Methods, 2012, 4, 3981.	1.3	82
12	Voltammetric sensing of paracetamol, dopamine and 4-aminophenol at a glassy carbon electrode coated with gold nanoparticles and an organophillic layered double hydroxide. Mikrochimica Acta, 2011, 175, 39-46.	2.5	78
13	Preparation of fluorescent graphene quantum dots from humic acid for bioimaging application. New Journal of Chemistry, 2015, 39, 7054-7059.	1.4	77
14	Photoelectrochemical immunosensor for methylated RNA detection based on g-C 3 N 4 /CdS quantum dots heterojunction and Phos-tag-biotin. Biosensors and Bioelectronics, 2017, 95, 124-130.	5.3	76
15	Ultrasensitive electrochemiluminescence immunosensor for 5-hydroxymethylcytosine detection based on Fe3O4@SiO2 nanoparticles and PAMAM dendrimers. Biosensors and Bioelectronics, 2018, 99, 660-666.	5.3	75
16	Electrochemical behavior of bisphenol A at glassy carbon electrode modified with gold nanoparticles, silk fibroin, and PAMAM dendrimers. Mikrochimica Acta, 2010, 170, 99-105.	2.5	74
17	Fe-doped biochar derived from waste sludge for degradation of rhodamine B via enhancing activation of peroxymonosulfate. Chemosphere, 2020, 261, 127616.	4.2	74
18	A sensitive fluorescent sensor for selective determination of dichlorvos based on the recovered fluorescence of carbon dots-Cu(II) system. Food Chemistry, 2016, 202, 81-87.	4.2	73

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19	A signal â€œonâ€•photoelectrochemical biosensor for assay of protein kinase activity and its inhibitor based on graphite-like carbon nitride, Phos-tag and alkaline phosphatase. Biosensors and Bioelectronics, 2015, 64, 462-468.	5.3	70
20	Photoelectrochemical immunosensor for microRNA detection based on gold nanoparticles-functionalized g-C3N4 and anti-DNA:RNA antibody. Sensors and Actuators B: Chemical, 2016, 222, 1119-1126.	4.0	68
21	Aptamer-based photoelectrochemical biosensor for antibiotic detection using ferrocene modified DNA as both aptamer and electron donor. Sensors and Actuators B: Chemical, 2018, 266, 514-521.	4.0	68
22	Electrochemical determination of microRNA-21 based on bio bar code and hemin/G-quadruplet DNAenzyme. Analyst, The, 2013, 138, 3409.	1.7	65
23	Electrochemical determination of Salmonella typhimurium by using aptamer-loaded gold nanoparticles and a composite prepared from a metal-organic framework (type UiO-67) and graphene. Mikrochimica Acta, 2019, 186, 620.	2.5	64
24	Î²-cyclodextrin-ferrocene hostâ€“guest complex multifunctional labeling triple amplification strategy for electrochemical immunoassay of subgroup J of avian leukosis viruses. Biosensors and Bioelectronics, 2013, 45, 40-45.	5.3	63
25	Electrochemical oxidation behavior of bisphenol A at surfactant/layered double hydroxide modified glassy carbon electrode and its determination. Journal of Solid State Electrochemistry, 2011, 15, 167-173.	1.2	62
26	Ultrasensitive Detection of Cancer Cells Combining Enzymatic Signal Amplification with an Aerolysin Nanopore. Analytical Chemistry, 2018, 90, 1029-1034.	3.2	58
27	DNA methyltransferase activity assay based on visible light-activated photoelectrochemical biosensor. Biosensors and Bioelectronics, 2014, 53, 263-267.	5.3	57
28	Innovative approach for the electrochemical detection of non-electroactive organophosphorus pesticides using oxime as electroactive probe. Analytica Chimica Acta, 2015, 885, 92-97.	2.6	57
29	A novel photoelectrochemical biosensor for the sensitive detection of dual microRNAs using molybdenum carbide nanotubes as nanocarriers and energy transfer between CQDs and AuNPs. Chemical Engineering Journal, 2019, 365, 351-357.	6.6	57
30	Effective signal-on photoelectrochemical immunoassay of subgroup J avian leukosis virus based on Bi2S3 nanorods as photosensitizer and in situ generated ascorbic acid for electron donating. Biosensors and Bioelectronics, 2014, 54, 237-243.	5.3	55
31	A novel signal-on strategy for M.SssI methyltransfease activity analysis and inhibitor screening based on photoelectrochemical immunosensor. Biosensors and Bioelectronics, 2015, 66, 109-114.	5.3	55
32	Electrochemical immunosensor for N6-methyladenosine detection in human cell lines based on biotin-streptavidin system and silver-SiO 2 signal amplification. Biosensors and Bioelectronics, 2017, 90, 494-500.	5.3	55
33	A sensitive electrochemical biosensor for detection of protein kinase A activity and inhibitors based on Phos-tag and enzymatic signal amplification. Biosensors and Bioelectronics, 2015, 63, 26-32.	5.3	53
34	Photoelectrochemical apta-biosensor for zeatin detection based on graphene quantum dots improved photoactivity of graphite-like carbon nitride and streptavidin induced signal inhibition. Sensors and Actuators B: Chemical, 2018, 257, 237-244.	4.0	53
35	A dual signal-on photoelectrochemical immunosensor for sensitively detecting target avian viruses based on AuNPs/g-C3N4 coupling with CdTe quantum dots and in situ enzymatic generation of electron donor. Biosensors and Bioelectronics, 2019, 124-125, 1-7.	5.3	53
36	Evaluation of DNA damage and antioxidant capacity of sericin by a DNA electrochemical biosensor based on dendrimer-encapsulated Au-Pd/chitosan composite. Mikrochimica Acta, 2010, 168, 347-354.	2.5	52

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37	Photoelectrochemical biosensor for hydroxymethylated DNA detection and T4-Î²-glucosyltransferase activity assay based on WS2 nanosheets and carbon dots. Biosensors and Bioelectronics, 2019, 127, 38-44.	5.3	52
38	Electrochemical biosensor for protein kinase A activity assay based on gold nanoparticles-carbon nanospheres, phos-tag-biotin and Î²-galactosidase. Biosensors and Bioelectronics, 2016, 86, 508-515.	5.3	51
39	Two-stage cyclic enzymatic amplification method for ultrasensitive electrochemical assay of microRNA-21 in the blood serum of gastric cancer patients. Biosensors and Bioelectronics, 2016, 79, 307-312.	5.3	51
40	Electrochemical biosensor for microRNA detection based on poly(U) polymerase mediated isothermal signal amplification. Biosensors and Bioelectronics, 2016, 79, 79-85.	5.3	51
41	A novel electrochemiluminescence biosensor for the detection of 5-methylcytosine, TET 1 protein and Î²-glucosyltransferase activities based on gold nanoclusters-H2O2 system. Sensors and Actuators B: Chemical, 2018, 274, 144-151.	4.0	49
42	Photoelectrochemical biosensor for 5hmC detection based on the photocurrent inhibition effect of ZnO on MoS2/C3N4 heterojunction. Biosensors and Bioelectronics, 2019, 142, 111516.	5.3	48
43	A glassy carbon electrode modified with graphene and tyrosinase immobilized on platinum nanoparticles for sensing organophosphorus pesticides. Mikrochimica Acta, 2011, 175, 129-135.	2.5	47
44	Electrochemical oxidation determination and voltammetric behaviour of 4-nitrophenol based on Cu₂O nanoparticles modified glassy carbon electrode. International Journal of Environmental Analytical Chemistry, 2012, 92, 742-754.	1.8	47
45	Amplified electrochemical microRNA biosensor using a hemin-G-quadruplex complex as the sensing element. RSC Advances, 2012, 2, 7140.	1.7	47
46	Green and gentle synthesis of Cu₂O nanoparticles using lignin as reducing and capping reagent with antibacterial properties. Journal of Experimental Nanoscience, 2016, 11, 18-27.	1.3	47
47	Recent Advances in Ionic Liquid-Mediated SO₂ Capture. Industrial & Engineering Chemistry Research, 2019, 58, 13804-13818.	1.8	47
48	A sensitive photoelectrochemical immunoassay of N6-methyladenosine based on dual-signal amplification strategy: Ru doped in SiO2 nanosphere and carboxylated g-C3N4. Biosensors and Bioelectronics, 2018, 99, 281-288.	5.3	46
49	Nitrogen-doped photoluminescent carbon nanospheres: green, simple synthesis via hair and application as a sensor for Hg²⁺ions. RSC Advances, 2014, 4, 37342.	1.7	45
50	Highly selective hydrogenation of Î±,Î²-unsaturated aldehydes by Pt catalysts supported on Fe-based layered double hydroxides and derived mixed metal oxides. Catalysis Science and Technology, 2016, 6, 703-707.	2.1	45
51	Photoelectrochemical Biosensor for DNA Formylation Detection in Genomic DNA of Maize Seedlings Based on Black Tio₂-Enhanced Photoactivity of MoS₂/WS₂ Heterojunction. ACS Sensors, 2020, 5, 1092-1101.	4.0	45
52	DNA methyltransferase detection based on digestion triggering the combination of poly adenine DNA with gold nanoparticles. Biosensors and Bioelectronics, 2016, 80, 74-78.	5.3	44
53	Dual-signal amplified photoelectrochemical biosensor for detection of N6-methyladenosine based on BiVO4-110-TiO2 heterojunction, Ag+-mediated cytosine pairs. Biosensors and Bioelectronics, 2018, 108, 89-96.	5.3	44
54	Electrochemical aptasensor for ampicillin detection based on the protective effect of aptamer-antibiotic conjugate towards DpnII and Exo III digestion. Talanta, 2019, 197, 42-48.	2.9	44

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55	Electrochemical aptasensing strategy for kanamycin detection based on target-triggered single-strand DNA adsorption on MoS2 nanosheets and enzymatic signal amplification. Sensors and Actuators B: Chemical, 2019, 296, 126664.	4.0	43
56	Polydopamine-sensitized WS2/black-TiO2 heterojunction for histone acetyltransferase detection with enhanced visible-light-driven photoelectrochemical activity. Chemical Engineering Journal, 2020, 393, 124707.	6.6	43
57	Protein-directed in situ synthesis of platinum nanoparticles with superior peroxidase-like activity, and their use for photometric determination of hydrogen peroxide. Mikrochimica Acta, 2013, 180, 1517-1522.	2.5	42
58	Electrochemical determination of malachite green at graphene quantum dotsâ€“gold nanoparticles multilayersâ€“modified glassy carbon electrode. Journal of Applied Electrochemistry, 2013, 43, 689-696.	1.5	42
59	Highly flexible and stable carbon nitride/cellulose acetate porous films with enhanced photocatalytic activity for contaminants removal from wastewater. Journal of Hazardous Materials, 2020, 384, 121417.	6.5	42
60	Sensitive voltammetric determination of rutin in pharmaceuticals, human serum, and traditional Chinese medicines using a glassy carbon electrode coated with graphene nanosheets, chitosan, and a poly(amido amine) dendrimer. Mikrochimica Acta, 2011, 173, 337-345.	2.5	41
61	Nonenzymatic sensing of methyl parathion based on graphene/gadolinium Prussian Blue analogue nanocomposite modified glassy carbon electrode. Analytical Methods, 2014, 6, 2157.	1.3	41
62	Copper nanoparticles modified graphitic carbon nitride nanosheets as a peroxidase mimetic for glucose detection. RSC Advances, 2015, 5, 91302-91307.	1.7	41
63	Electrochemical immunosensor with nanocellulose-Au composite assisted multiple signal amplification for detection of avian leukosis virus subgroup J. Biosensors and Bioelectronics, 2018, 101, 110-115.	5.3	41
64	A Novel Electrochemical Immunosensor Based on Mesoporous Graphitic Carbon Nitride for Detection of Subgroup J of Avian Leukosis Viruses. Electrochimica Acta, 2016, 205, 95-101.	2.6	40
65	A simple aptamer-based fluorescent aflatoxin B1 sensor using humic acid as quencher. Talanta, 2019, 205, 120131.	2.9	40
66	Photoelectrochemical immunosensor for N6-methyladenine detection based on Ru@UiO-66, Bi2O3 and Black TiO2. Biosensors and Bioelectronics, 2019, 131, 163-170.	5.3	40
67	Signal-on electrochemiluminescence biosensor for microRNA-319a detection based on two-stage isothermal strand-displacement polymerase reaction. Biosensors and Bioelectronics, 2018, 107, 34-39.	5.3	39
68	Anion-intercalated layered double hydroxides modified test strips for detection of heavy metal ions. Talanta, 2016, 148, 301-307.	2.9	37
69	Fluorometric determination of microRNA based on strand displacement amplification and rolling circle amplification. Mikrochimica Acta, 2017, 184, 4359-4365.	2.5	36
70	MicroRNA-21 detection based on molecular switching by amperometry. New Journal of Chemistry, 2012, 36, 1985.	1.4	35
71	Electrochemical immunosensor for N6-methyladenosine RNA modification detection. Sensors and Actuators B: Chemical, 2015, 221, 1-6.	4.0	35
72	Photoelectrochemical biosensor for protein kinase A detection based on carbon microspheres, peptide functionalized Au-ZIF-8 and TiO2/g-C3N4. Talanta, 2019, 196, 197-203.	2.9	35

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73	Regenerable magnetic aminated lignin/Fe3O4/La(OH)3 adsorbents for the effective removal of phosphate and glyphosate. Science of the Total Environment, 2021, 788, 147812.	3.9	34
74	Electrochemical determination of methyl parathion using poly(malachite green)/graphene nanosheetsâ€“nafion composite film-modified glassy carbon electrode. Journal of Applied Electrochemistry, 2012, 42, 509-516.	1.5	33
75	Recyclable polyvinyl alcohol sponge containing flower-like layered double hydroxide microspheres for efficient removal of As(V) anions and anionic dyes from water. Journal of Hazardous Materials, 2019, 367, 286-292.	6.5	33
76	Photoelectrochemical detection of 5-hydroxymethylcytosine in genomic DNA based on M. Hhal methyltransferase catalytic covalent bonding. Chemical Engineering Journal, 2019, 357, 94-102.	6.6	32
77	Preparation of P-g-C3N4-WS2 nanocomposite and its application in photoelectrochemical detection of 5-formylcytosine. Journal of Colloid and Interface Science, 2020, 561, 348-357.	5.0	32
78	Ultrasensitive electrochemical immunosensor for avian leukosis virus detection based on a Î²-cyclodextrin-nanogold-ferrocene host-guest label for signal amplification. Analytica Chimica Acta, 2019, 1062, 87-93.	2.6	31
79	Multifunctional Fe3O4 core/Niâ€“Al layered double hydroxides shell nanospheres as labels for ultrasensitive electrochemical immunoassay of subgroup J of avian leukosis virus. Biosensors and Bioelectronics, 2012, 37, 107-111.	5.3	30
80	Electrochemical detection of protein kinase activity based on carboxypeptidase Y digestion triggered signal amplification. Biosensors and Bioelectronics, 2015, 66, 77-83.	5.3	30
81	Iron nanoparticles in situ encapsulated in lignin-derived hydrochar as an effective catalyst for phenol removal. Environmental Science and Pollution Research, 2018, 25, 20833-20840.	2.7	30
82	Electrochemical aptasensor for sulfadimethoxine detection based on the triggered cleavage activity of nuclease P1 by aptamer-target complex. Talanta, 2019, 204, 409-414.	2.9	30
83	Photoelectrochemical biosensor for histone acetyltransferase detection based on ZnO quantum dots inhibited photoactivity of BiOI nanoflower. Sensors and Actuators B: Chemical, 2020, 307, 127633.	4.0	30
84	Decoration of surface-carboxylated graphene oxide with luminescent Sm3+-complexes. Journal of Materials Science, 2014, 49, 2672-2679.	1.7	29
85	Tungsten disulfide (WS2) nanosheet-based photoelectrochemical aptasensing of chloramphenicol. Mikrochimica Acta, 2018, 185, 453.	2.5	29
86	Quantum dot immobilized acetylcholinesterase for the determination of organophosphate pesticides using graphene-chitosan nanocomposite modified electrode. Analytical Methods, 2013, 5, 2866.	1.3	28
87	Investigation of the effect of phytohormone on the expression of microRNA-159a in Arabidopsis thaliana seedlings based on mimic enzyme catalysis systematic electrochemical biosensor. Biosensors and Bioelectronics, 2014, 54, 244-250.	5.3	28
88	In-situ synthesis of covalent organic polymer thin film integrates with palladium nanoparticles for the construction of a cathodic photoelectrochemical cytosensor. Biosensors and Bioelectronics, 2020, 168, 112545.	5.3	28
89	Room temperature synthesis of zinc hydroxystannate hollow core-shell microspheres and their hydrothermal growth of hollow core-shell polyhedral microcrystals. CrystEngComm, 2011, 13, 113-117.	1.3	27
90	Visible-light induced photoelectrochemical biosensor for the detection of microRNA based on Bi2S3 nanorods and streptavidin on an ITO electrode. Mikrochimica Acta, 2015, 182, 241-248.	2.5	27

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91	Aptamer based voltammetric determination of ampicillin using a single-stranded DNA binding protein and DNA functionalized gold nanoparticles. Mikrochimica Acta, 2018, 185, 68.	2.5	27
92	Recovery and characterization of lignin from alkaline straw pulping black liquor: As feedstock for bioâ€oil research. Journal of Applied Polymer Science, 2015, 132, .	1.3	26
93	A novel photoelectrochemical biosensor for protein kinase activity assay based on phosphorylated graphite-like carbon nitride. Analytica Chimica Acta, 2016, 934, 36-43.	2.6	26
94	Photoelectrochemical biosensor for HEN1 RNA methyltransferase detection using peroxidase mimics PtCu NFs and poly(U) polymerase-mediated RNA extension. Biosensors and Bioelectronics, 2018, 103, 32-38.	5.3	26
95	Electrochemical oxidation behavior of 2,4-dinitrophenol at hydroxylapatite film-modified glassy carbon electrode and its determination in water samples. Journal of Solid State Electrochemistry, 2012, 16, 75-82.	1.2	25
96	Coreâ€“shell structured CaS:Eu²⁺@CaZnOS via inward erosion growth to realize a super stable chalcogenide red phosphor. Journal of Materials Chemistry C, 2019, 7, 5931-5936.	2.7	25
97	Photoelectrochemical biosensor for DNA hydroxymethylation detection based on the enhanced photoactivity of in-situ synthesized Bi4NbO8Cl@Bi2S3 heterojunction. Biosensors and Bioelectronics, 2021, 194, 113580.	5.3	25
98	Electrochemical behavior of phenacetin on CdSe microspheres modified glassy carbon electrode and its simultaneous determination with paracetamol and 4-aminophenol. Analytical Methods, 2012, 4, 1445.	1.3	24
99	Photoelectrochemical biosensor for highly sensitive detection of microRNA based on duplex-specific nuclease-triggered signal amplification. Journal of Solid State Electrochemistry, 2015, 19, 1301-1309.	1.2	24
100	Substrate-free and label-free electrocatalysis-assisted biosensor for sensitive detection of microRNA in lung cancer cells. Chemical Communications, 2019, 55, 1172-1175.	2.2	24
101	Fluorometric determination of mercury(II) based on dual-emission metal-organic frameworks incorporating carbon dots and gold nanoclusters. Mikrochimica Acta, 2020, 187, 534.	2.5	24
102	The immobilization of Cytochrome c on MWNTâ€“PAMAMâ€“Chit nanocomposite incorporated with DNA biocomposite film modified glassy carbon electrode for the determination of nitrite. Journal of Solid State Electrochemistry, 2010, 14, 1681-1688.	1.2	23
103	Electrochemical immunoassay for subgroup J of avian leukosis viruses using a glassy carbon electrode modified with a film of poly (3-thiophene boronic acid), gold nanoparticles, graphene and immobilized antibody. Mikrochimica Acta, 2012, 179, 227-234.	2.5	23
104	Label-free, Ultrasensitive and Electrochemical Immunosensing Platform for microRNA Detection Using Anti-DNA:RNA Hybrid Antibody and Enzymatic Signal Amplification. Electrochimica Acta, 2015, 165, 130-135.	2.6	23
105	Electrochemiluminescence biosensor for DNA hydroxymethylation detection based on enzyme-catalytic covalent bonding reaction of â€“CH2OH and thiol functionalized Fe3O4 magnetic beads. Biosensors and Bioelectronics, 2020, 150, 111908.	5.3	23
106	Electrochemical behavior of antipyrine at a Bi2S3 modified glassy carbon electrode and its determination in pharmaceutical formulations. Analytical Methods, 2012, 4, 1736.	1.3	22
107	Detection of cancer cells using triplex DNA molecular beacons based on expression of enhanced green fluorescent protein (eGFP). Chemical Communications, 2014, 50, 9547-9549.	2.2	22
108	Enzyme-based electrochemical biosensor for sensitive detection of DNA demethylation and the activity of DNA demethylase. Analytica Chimica Acta, 2014, 840, 28-32.	2.6	22

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109	A simple and sensitive sensor for lactose based on cascade reactions in Au nanoclusters and enzymes co-encapsulated metal-organic frameworks. Food Chemistry, 2021, 339, 127863.	4.2	22
110	Efficient removal of Cu-EDTA complexes from wastewater by combined electrooxidation and electrocoagulation process: Performance and mechanism study. Chemosphere, 2022, 287, 131971.	4.2	22
111	An efficient electrochemical disinfection of E. coli and S. aureus in drinking water using ferroceneâ€“PAMAMâ€“multiwalled carbon nanotubesâ€“chitosan nanocomposite modified pyrolytic graphite electrode. Journal of Solid State Electrochemistry, 2013, 17, 1685-1691.	1.2	21
112	Electrochemical biosensor for DNA demethylase detection based on demethylation triggered endonuclease BstUI and Exonuclease III digestion. Biosensors and Bioelectronics, 2015, 66, 266-270.	5.3	21
113	Photocatalytic activity of one-dimensional Ag2V4O11 nanowires in the degradation of bisphenolÂa under visible-light irradiation. Research on Chemical Intermediates, 2015, 41, 3683-3697.	1.3	21
114	Efficient removal of cadmium ions from water by adsorption on a magnetic carbon aerogel. Environmental Science and Pollution Research, 2021, 28, 5149-5157.	2.7	21
115	Core-shell structural nitrogen-doped carbon foam loaded with nano zero-valent iron for simultaneous remediation of Cd (II) and NAP in water and soil: Kinetics, mechanism, and environmental evaluation. Science of the Total Environment, 2022, 832, 155091.	3.9	21
116	Pd nanoparticles supported on nitrogen, sulfur-doped three-dimensional hierarchical nanostructures as peroxidase-like catalysts for colorimetric detection of xanthine. RSC Advances, 2015, 5, 32183-32190.	1.7	20
117	Investigation of the inhibited biotoxicity of heavy metals towards 5- formylcytosine in rice by hydrochar based on photoelectrochemical biosensor. Journal of Hazardous Materials, 2021, 414, 125293.	6.5	20
118	Amperometric nitrite biosensor based on a gold electrode modified with cytochrome c on Nafion and Cu-Mg-Al layered double hydroxides. Mikrochimica Acta, 2010, 171, 385-392.	2.5	19
119	Amperometric biosensor based on tyrosinase immobilized in hydrotalcite-like compounds film for the determination of polyphenols. Journal of Solid State Electrochemistry, 2012, 16, 449-456.	1.2	19
120	One step preparation of CN-WS2 nanocomposite with enhanced photoactivity and its application for photoelectrochemical detection of 5-formylcytosine in the genomic DNA of maize seedling. Biosensors and Bioelectronics, 2020, 151, 111973.	5.3	19
121	A Cu(<scp>i</scp>)â€“I coordination polymer fluorescent chemosensor with amino-rich sites for nitro aromatic compound (NAC) detection in water. CrystEngComm, 2020, 22, 5690-5697.	1.3	19
122	Mixed matrix of MOF@COF hybrids for enrichment and determination of phenoxy carboxylic acids in water and vegetables. Food Chemistry, 2022, 371, 131090.	4.2	19
123	Highly selective hydrogenation of 5-hydroxymethylfurfural to 2,5-dimethylfuran at low temperature over a Coâ€“Nâ€“C/NiAl-MMO catalyst. Catalysis Science and Technology, 2020, 10, 4010-4018.	2.1	19
124	Electrochemical Determination of 2â€Nitrophenol in Water Samples Using Mgâ€Alâ€SDS Hydrotalciteâ€Like Clay Modified Glassy Carbon Electrode. Electroanalysis, 2010, 22, 1136-1142.	1.5	18
125	Electrochemical determination of NADH using a glassy carbon electrode modified with Fe3O4 nanoparticles and poly-2,6-pyridinedicarboxylic acid, and its application to the determination of antioxidant capacity. Mikrochimica Acta, 2011, 174, 31-39.	2.5	18
126	Electrochemical determination of nonylphenol based on ionic liquid-functionalized graphene nanosheet modified glassy carbon electrode and its interaction with DNA. Journal of Solid State Electrochemistry, 2012, 16, 2837-2843.	1.2	18

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127	Poly-(3-thiopheneacetic acid) coated Fe3O4@LDHs magnetic nanospheres as a photocatalyst for the efficient photocatalytic disinfection of pathogenic bacteria under solar light irradiation. New Journal of Chemistry, 2013, 37, 2509.	1.4	18
128	G-quadruplex functionalized nano mesoporous silica for assay of the DNA methyltransferase activity. Analytica Chimica Acta, 2015, 879, 34-40.	2.6	18
129	A novel pH-responsive electrochemiluminescence immunosensor for ALV-J detection based on hollow MnO2 encapsulating Ru(bpy)3Cl2. Biosensors and Bioelectronics, 2018, 118, 167-173.	5.3	18
130	Determination of hydrogen peroxide based on calcined layered double hydroxide-modified glassy carbon electrode in flavored beverages. Journal of Solid State Electrochemistry, 2012, 16, 1545-1550.	1.2	17
131	Electrochemical immunoassays for the detection the activity of DNA methyltransferase by using the rolling circle amplification technique. Mikrochimica Acta, 2014, 181, 471-477.	2.5	17
132	Iron nanoparticles encapsulated within nitrogen and sulfur co-doped magnetic porous carbon as an efficient peroxymonosulfate activator to degrade 1-naphthol. Science of the Total Environment, 2020, 739, 139896.	3.9	17
133	Multifunctional NiCoTiÂCatalyst Derived from Layered Double Hydroxides for Selective Hydrogenation of 5-Hydroxymethylfurfural to 2,5-Dimethylfuran. Catalysis Letters, 2021, 151, 517-525.	1.4	17
134	Amperometric biosensor based on immobilization of acetylcholinesterase via specific binding on biocompatible boronic acid-functionalized Fe@Au magnetic nanoparticles. Journal of Solid State Electrochemistry, 2012, 16, 3783-3790.	1.2	16
135	Glucose oxidase and Au nanocluster co-encapsulated metalâ€“organic frameworks as a sensitive colorimetric sensor for glucose based on a cascade reaction. New Journal of Chemistry, 2020, 44, 13344-13349.	1.4	16
136	Amperometric biosensor based on hemoglobin immobilized on Cu2S nanorods/nafion nanocomposite film for the determination of polyphenols. Journal of Solid State Electrochemistry, 2012, 16, 2547-2554.	1.2	15
137	Colorimetric detection of peroxynitrite-induced DNA damage using gold nanoparticles, and on the scavenging effects of antioxidants. Mikrochimica Acta, 2013, 180, 573-580.	2.5	15
138	An electrochemical immunosensor based on an etched zeolitic imidazolate framework for detection of avian leukosis virus subgroup J. Mikrochimica Acta, 2018, 185, 423.	2.5	15
139	Electrochemiluminescence biosensor for microRNA determination based on AgNCs@MoS2 composite with (AuNPs-Semicarbazide)@Cu-MOF as coreaction accelerator. Mikrochimica Acta, 2021, 188, 68.	2.5	15
140	Electrochemical detection of DNA damage induced by in situ generated bisphenol A radicals through electro-oxidation. Mikrochimica Acta, 2010, 171, 363-369.	2.5	14
141	DNA-based hybridization chain reaction amplification for assaying the effect of environmental phenolic hormone on DNA methyltransferase activity. Analytica Chimica Acta, 2014, 829, 9-14.	2.6	14
142	Biodegradable poly(vinyl alcohol)-based nanocomposite film reinforced with organophilic layered double hydroxides with potential packaging application. Iranian Polymer Journal (English Edition), 2017, 26, 811-819.	1.3	14
143	Ultrasensitive microRNA-21 detection based on DNA hybridization chain reaction and SYBR Green dye. Analytical Biochemistry, 2017, 538, 20-25.	1.1	14
144	Photoelectrochemical biosensor for microRNA detection based on multiple amplification strategies. Mikrochimica Acta, 2018, 185, 257.	2.5	14

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145	Sulfur doped carbon nitride quantum dots with efficient fluorescent property and their application for bioimaging. Journal of Nanoparticle Research, 2018, 20, 1.	0.8	14
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