

# Xi-Liang Luo

## List of Publications by Citations

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298  
papers

12,150  
citations

58  
h-index

97  
g-index

308  
ext. papers

14,540  
ext. citations

8.1  
avg, IF

7.11  
L-index

#	Paper	IF	Citations
298	Application of Nanoparticles in Electrochemical Sensors and Biosensors. <i>Electroanalysis</i> , <b>2006</b> , 18, 319-326		992
297	A glucose biosensor based on chitosan-glucose oxidase-gold nanoparticles biocomposite formed by one-step electrodeposition. <i>Analytical Biochemistry</i> , <b>2004</b> , 334, 284-9	3.1	340
296	Electrical biosensors and the label free detection of protein disease biomarkers. <i>Chemical Society Reviews</i> , <b>2013</b> , 42, 5944-62	58.5	329
295	Electrically controlled drug delivery from graphene oxide nanocomposite films. <i>ACS Nano</i> , <b>2014</b> , 8, 1834-1837	16.7	293
294	Electrochemically deposited chitosan hydrogel for horseradish peroxidase immobilization through gold nanoparticles self-assembly. <i>Biosensors and Bioelectronics</i> , <b>2005</b> , 21, 190-6	11.8	242
293	Emerging Pt-based electrocatalysts with highly open nanoarchitectures for boosting oxygen reduction reaction. <i>Nano Today</i> , <b>2018</b> , 21, 91-105	17.9	238
292	Electrochemical Deposition: An Advanced Approach for Templated Synthesis of Nanoporous Metal Architectures. <i>Accounts of Chemical Research</i> , <b>2018</b> , 51, 1764-1773	24.3	218
291	Electrochemically deposited nanocomposite of chitosan and carbon nanotubes for biosensor application. <i>Chemical Communications</i> , <b>2005</b> , 2169-71	5.8	202
290	Highly stable carbon nanotube doped poly(3,4-ethylenedioxythiophene) for chronic neural stimulation. <i>Biomaterials</i> , <b>2011</b> , 32, 5551-7	15.6	192
289	Carbon nanotube nanoreservoir for controlled release of anti-inflammatory dexamethasone. <i>Biomaterials</i> , <b>2011</b> , 32, 6316-23	15.6	182
288	A simple method to fabricate a chitosan-gold nanoparticles film and its application in glucose biosensor. <i>Bioelectrochemistry</i> , <b>2007</b> , 70, 342-7	5.6	181
287	A novel glucose ENFET based on the special reactivity of MnO <sub>2</sub> nanoparticles. <i>Biosensors and Bioelectronics</i> , <b>2004</b> , 19, 1295-300	11.8	167
286	An optimised electrochemical biosensor for the label-free detection of C-reactive protein in blood. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 39, 94-8	11.8	161
285	Antifouling Strategies for Selective and Sensing. <i>Chemical Reviews</i> , <b>2020</b> , 120, 3852-3889	68.1	153
284	Enhanced catalytic and dopamine sensing properties of electrochemically reduced conducting polymer nanocomposite doped with pure graphene oxide. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 58, 153-6	11.8	147
283	PEGylated Polyaniline Nanofibers: Antifouling and Conducting Biomaterial for Electrochemical DNA Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 2914-2923	9.5	133
282	Enhancement of a conducting polymer-based biosensor using carbon nanotube-doped polyaniline. <i>Analytica Chimica Acta</i> , <b>2006</b> , 575, 39-44	6.6	118

281	Development of Sulfonic-Acid-Functionalized Mesoporous Materials: Synthesis and Catalytic Applications. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 1614-1635	4.8	117
280	The label free picomolar detection of insulin in blood serum. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 39, 21-5	11.8	114
279	Nanomaterial-doped conducting polymers for electrochemical sensors and biosensors. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 4173-4190	7.3	107
278	Mixed Self-Assembled Aptamer and Newly Designed Zwitterionic Peptide as Antifouling Biosensing Interface for Electrochemical Detection of alpha-Fetoprotein. <i>ACS Sensors</i> , <b>2017</b> , 2, 490-494	9.2	102
277	Polydopamine Nanosphere/Gold Nanocluster (Au NC)-Based Nanoplatfrom for Dual Color Simultaneous Detection of Multiple Tumor-Related MicroRNAs with DNase-I-Assisted Target Recycling Amplification. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 4039-4045	7.8	102
276	A novel electrochemical immunosensor for highly sensitive detection of prostate-specific antigen using 3D open-structured PtCu nanoframes for signal amplification. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 126, 187-192	11.8	102
275	A highly sensitive biosensor for tumor maker alpha fetoprotein based on poly(ethylene glycol) doped conducting polymer PEDOT. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 79, 736-41	11.8	94
274	Reagentless Glucose Biosensor Based on the Direct Electrochemistry of Glucose Oxidase on Carbon Nanotube-Modified Electrodes. <i>Electroanalysis</i> , <b>2006</b> , 18, 1131-1134	3	94
273	Glucose biosensor based on ENFET doped with SiO <sub>2</sub> nanoparticles. <i>Sensors and Actuators B: Chemical</i> , <b>2004</b> , 97, 249-255	8.5	94
272	Porous Organic Frameworks: Advanced Materials in Analytical Chemistry. <i>Advanced Science</i> , <b>2018</b> , 5, 1801116	13.6	91
271	Detection of cardiac biomarkers using single polyaniline nanowire-based conductometric biosensors. <i>Biosensors</i> , <b>2012</b> , 2, 205-20	5.9	90
270	Ultrasensitive label free electrical detection of insulin in neat blood serum. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 4129-34	7.8	88
269	Application of MnO <sub>2</sub> nanoparticles as an eliminator of ascorbate interference to amperometric glucose biosensors. <i>Electrochemistry Communications</i> , <b>2004</b> , 6, 1169-1173	5.1	88
268	Recent advancements in biocompatible inorganic nanoparticles towards biomedical applications. <i>Biomaterials Science</i> , <b>2018</b> , 6, 726-745	7.4	86
267	Pure Graphene Oxide Doped Conducting Polymer Nanocomposite for Bio-interfacing. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 1340-1348	7.3	85
266	Oxygen vacancies confined in ultrathin nickel oxide nanosheets for enhanced electrocatalytic methanol oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 244, 1096-1102	21.8	85
265	Highly sensitive single polyaniline nanowire biosensor for the detection of immunoglobulin G and myoglobin. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 3297-302	11.8	84
264	Electrodeposited Conducting Polyaniline Nanowire Arrays Aligned on Carbon Nanotubes Network for High Performance Supercapacitors and Sensors. <i>Electrochimica Acta</i> , <b>2016</b> , 199, 234-241	6.7	83

263	Zwitterionic peptide anchored to conducting polymer PEDOT for the development of antifouling and ultrasensitive electrochemical DNA sensor. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 92, 396-401	11.8	82
262	Molecularly imprinted electrochemical sensor for propyl gallate based on PtAu bimetallic nanoparticles modified graphene-carbon nanotube composites. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 68, 563-569	11.8	79
261	Evaluation of poly(3,4-ethylenedioxythiophene)/carbon nanotube neural electrode coatings for stimulation in the dorsal root ganglion. <i>Journal of Neural Engineering</i> , <b>2015</b> , 12, 016008	5	78
260	A Glucose-Assisted Hydrothermal Reaction for Directly Transforming Metal-Organic Frameworks into Hollow Carbonaceous Materials. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 4401-4408	9.6	77
259	Electrodeposited conducting polymer PEDOT doped with pure carbon nanotubes for the detection of dopamine in the presence of ascorbic acid. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 188, 405-410	8.5	76
258	Sponge-like nanostructured conducting polymers for electrically controlled drug release. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 1956	5.1	74
257	Nanocomposite and nanoporous polyaniline conducting polymers exhibit enhanced catalysis of nitrite reduction. <i>Chemistry - A European Journal</i> , <b>2007</b> , 13, 2138-43	4.8	74
256	Electrochemical deposition of conducting polymer coatings on magnesium surfaces in ionic liquid. <i>Acta Biomaterialia</i> , <b>2011</b> , 7, 441-6	10.8	73
255	A sensitive biosensor for lactate based on layer-by-layer assembling MnO <sub>2</sub> nanoparticles and lactate oxidase on ion-sensitive field-effect transistors. <i>Chemical Communications</i> , <b>2005</b> , 792-4	5.8	73
254	Universal Design of Selectivity-Enhanced Photoelectrochemical Enzyme Sensor: Integrating Photoanode with Biocathode. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 10681-10687	7.8	70
253	Nickel nanoparticles modified conducting polymer composite of reduced graphene oxide doped poly(3,4-ethylenedioxythiophene) for enhanced nonenzymatic glucose sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 221, 606-613	8.5	69
252	A label-free electrochemical DNA biosensor for breast cancer marker BRCA1 based on self-assembled antifouling peptide monolayer. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 244, 742-749	8.5	66
251	A review of ratiometric electrochemical sensors: From design schemes to future prospects. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 274, 501-516	8.5	66
250	Electrochemically controlled release based on nanoporous conducting polymers. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 402-404	5.1	66
249	Antifouling aptasensor for the detection of adenosine triphosphate in biological media based on mixed self-assembled aptamer and zwitterionic peptide. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 101, 129-134	11.8	65
248	Low fouling label-free DNA sensor based on polyethylene glycols decorated with gold nanoparticles for the detection of breast cancer biomarkers. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 71, 51-56	11.8	64
247	A graphene oxide/conducting polymer nanocomposite for electrochemical dopamine detection: origin of improved sensitivity and specificity. <i>Journal of Materials Chemistry B</i> , <b>2014</b> , 2, 5209-5219	7.3	62
246	Fe-doped Ag <sub>2</sub> S with excellent peroxidase-like activity for colorimetric determination of H <sub>2</sub> O <sub>2</sub> . <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 785, 1189-1197	5.7	61

245	A prostate-specific antigen electrochemical immunosensor based on Pd NPs functionalized electroactive Co-MOF signal amplification strategy. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 132, 97-104	11.8	61
244	Electrochemical Aptasensor for Ultralow Fouling Cancer Cell Quantification in Complex Biological Media Based on Designed Branched Peptides. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 8334-8340	7.8	59
243	Fabrication of BSA@AuNC-Based Nanostructures for Cell Fluoresce Imaging and Target Drug Delivery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 8947-8954	9.5	59
242	Ternary Electrochemiluminescence Nanostructure of Au Nanoclusters as a Highly Efficient Signal Label for Ultrasensitive Detection of Cancer Biomarkers. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 10024-10030	7.8	59
241	Electrochemiluminescence Energy Resonance Transfer System between RuSi Nanoparticles and Hollow Au Nanocages for Nucleic Acid Detection. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 10434-10441	7.8	59
240	Ascorbic acid sensor based on ion-sensitive field-effect transistor modified with MnO <sub>2</sub> nanoparticles. <i>Analytica Chimica Acta</i> , <b>2004</b> , 512, 57-61	6.6	58
239	High-activity FeO nanozyme as signal amplifier: A simple, low-cost but efficient strategy for ultrasensitive photoelectrochemical immunoassay. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 127, 64-71	11.8	57
238	The robust electrochemical detection of a Parkinson's disease marker in whole blood sera. <i>Chemical Science</i> , <b>2012</b> , 3, 3468	9.4	55
237	Carbon nanotube doped poly(3,4-ethylenedioxythiophene) for the electrocatalytic oxidation and detection of hydroquinone. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 176, 69-74	8.5	55
236	Low Fouling Protein Detection in Complex Biological Media Supported by a Designed Multifunctional Peptide. <i>ACS Sensors</i> , <b>2018</b> , 3, 1210-1216	9.2	55
235	Three dimensional sea-urchin-like PdAuCu nanocrystals/ferrocene-grafted-polylysine as an efficient probe to amplify the electrochemical signals for ultrasensitive immunoassay of carcinoembryonic antigen. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 132, 294-301	11.8	54
234	Electrochemical synthesis of poly(3,4-ethylenedioxythiophene) doped with gold nanoparticles, and its application to nitrite sensing. <i>Mikrochimica Acta</i> , <b>2016</b> , 183, 1235-1241	5.8	54
233	Signal amplified strategy based on target-induced strand release coupling cleavage of nicking endonuclease for the ultrasensitive detection of ochratoxin A. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 39, 145-51	11.8	54
232	Graphene oxide doped poly(3,4-ethylenedioxythiophene) modified with copper nanoparticles for high performance nonenzymatic sensing of glucose. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 556-561	7.3	53
231	Rapid room-temperature fabrication of ultrathin Ni(OH) <sub>2</sub> nanoflakes with abundant edge sites for efficient urea oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 259, 118020	21.8	53
230	Electrochemical determination of paracetamol based on Au@graphene core-shell nanoparticles doped conducting polymer PEDOT nanocomposite. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 260, 778-785	8.5	52
229	Gold nanoparticles and polyethylene glycols functionalized conducting polyaniline nanowires for ultrasensitive and low fouling immunosensing of alpha-fetoprotein. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 86, 143-149	11.8	52
228	A novel label-free electrochemical immunosensor for ultra-sensitively detecting prostate specific antigen based on the enhanced catalytic currents of oxygen reduction catalyzed by core-shell Au@Pt nanocrystals. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 102, 276-281	11.8	52

227	A photoelectrochemical sensor for ultrasensitive dopamine detection based on single-layer NanoMoS <sub>2</sub> modified gold electrode. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 249, 83-89	8.5	51
226	Mixed Self-Assembly of Polyethylene Glycol and Aptamer on Polydopamine Surface for Highly Sensitive and Low-Fouling Detection of Adenosine Triphosphate in Complex Media. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 31153-31160	9.5	50
225	Low fouling strategies for electrochemical biosensors targeting disease biomarkers. <i>Analytical Methods</i> , <b>2019</b> , 11, 702-711	3.2	49
224	Ultrasensitive and selective voltammetric aptasensor for dopamine based on a conducting polymer nanocomposite doped with graphene oxide. <i>Mikrochimica Acta</i> , <b>2015</b> , 182, 1123-1129	5.8	49
223	Redox and label-free array detection of protein markers in human serum. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 5553-8	7.8	48
222	A signal-on photoelectrochemical aptasensor for chloramphenicol assay based on 3D self-supporting AgI/Ag/BiOI Z-scheme heterojunction arrays. <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 181, 113158	11.8	48
221	Toward DNA electrochemical sensing by free-standing ZnO nanosheets grown on 2D thin-layered MoS <sub>2</sub> . <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 89, 538-544	11.8	46
220	Aptamer induced multicoloured Au NCs-MoS <sub>2</sub> "switch on" fluorescence resonance energy transfer biosensor for dual color simultaneous detection of multiple tumor markers by single wavelength excitation. <i>Analytica Chimica Acta</i> , <b>2017</b> , 983, 173-180	6.6	44
219	Well-dispersed CoFe alloy nanoparticles wrapped in N-doped defect-rich carbon nanosheets as a highly efficient and methanol-resistant catalyst for oxygen-reduction reaction. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 569, 277-285	9.3	44
218	Dual-Mode Electrochemical Assay of Prostate-Specific Antigen Based on Antifouling Peptides Functionalized with Electrochemical Probes and Internal References. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 15846-15852	7.8	44
217	Perylene diimide-functionalized CeO <sub>2</sub> nanocomposite as a peroxidase mimic for colorimetric determination of hydrogen peroxide and glutathione. <i>Mikrochimica Acta</i> , <b>2019</b> , 186, 332	5.8	42
216	Ultrasensitive protein detection using an aptamer-functionalized single polyaniline nanowire. <i>Chemical Communications</i> , <b>2011</b> , 47, 6368-70	5.8	42
215	Ratiometric Electrogenerated Chemiluminescence Cytosensor Based on Conducting Polymer Hydrogel Loaded with Internal Standard Molecules. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 983-989	7.8	41
214	Near infrared fluorescent dual ligand functionalized Au NCs based multidimensional sensor array for pattern recognition of multiple proteins and serum discrimination. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 97, 203-207	11.8	40
213	Enhanced electrochemical biosensing of alpha-fetoprotein based on three-dimensional macroporous conducting polymer polyaniline. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 255, 2568-2574	8.5	40
212	Sensitive SERS detection of miRNA via enzyme-free DNA machine signal amplification. <i>Chemical Communications</i> , <b>2016</b> , 52, 10269-72	5.8	40
211	Rapid real-time electrical detection of proteins using single conducting polymer nanowire-based microfluidic aptasensor. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 30, 306-9	11.8	40
210	A morphology-based ultrasensitive multicolor colorimetric assay for detection of blood glucose by enzymatic etching of plasmonic gold nanobipyramids. <i>Analytica Chimica Acta</i> , <b>2019</b> , 1071, 53-58	6.6	39



209	Patchy gold coated FeO nanospheres with enhanced catalytic activity applied for paper-based bipolar electrode-electrochemiluminescence aptasensors. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 114, 44-51	11.8	39
208	Embedded Au Nanoparticles-Based Ratiometric Electrochemical Sensing Strategy for Sensitive and Reliable Detection of Copper Ions. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 12006-12013	7.8	39
207	Highly sensitive label-free amperometric immunoassay of prostate specific antigen using hollow dendritic AuPtAg alloyed nanocrystals. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 111, 47-51	11.8	38
206	Gold Nanobipyramids as Dual-Functional Substrates for in Situ "Turn On" Analyzing Intracellular Telomerase Activity Based on Target-Triggered Plasmon-Enhanced Fluorescence. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 26851-26858	9.5	38
205	A polypeptide-mediated synthesis of green fluorescent gold nanoclusters for Fe sensing and bioimaging. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 506, 386-392	9.3	37
204	Analytical aspects of fet-based biosensors. <i>Frontiers in Bioscience - Landmark</i> , <b>2005</b> , 10, 420-30	2.8	37
203	Antifouling and ultrasensitive biosensing interface based on self-assembled peptide and aptamer on macroporous gold for electrochemical detection of immunoglobulin E in serum. <i>Analytical and Bioanalytical Chemistry</i> , <b>2018</b> , 410, 5871-5878	4.4	37
202	Aptamer biosensor for highly sensitive and selective detection of dopamine using ubiquitous personal glucose meters. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 209, 596-601	8.5	36
201	CdZnTeS quantum dots based electrochemiluminescent image immunoanalysis. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 117, 145-152	11.8	36
200	Aptamer biosensor for dopamine based on a gold electrode modified with carbon nanoparticles and thionine labeled gold nanoparticles as probe. <i>Mikrochimica Acta</i> , <b>2015</b> , 182, 1797-1802	5.8	36
199	Electrochemical preparation of distinct polyaniline nanostructures by surface charge control of polystyrene nanoparticle templates. <i>Chemical Communications</i> , <b>2007</b> , 3207-9	5.8	36
198	In situ electropolymerised silica/polyaniline core/shell structures: Electrode modification and enzyme biosensor enhancement. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 1865-1870	6.7	36
197	Electrochemical Biosensor with Enhanced Antifouling Capability for COVID-19 Nucleic Acid Detection in Complex Biological Media. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 5963-5971	7.8	36
196	Rapid synthesis of nitrogen doped carbon dots and their application as a label free sensor array for simultaneous discrimination of multiple proteins. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 8748-8753	7.3	34
195	Poly (3, 4-ethylenedioxythiophene)-ionic liquid coating improves neural recording and stimulation functionality of MEAs. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 6515-6524	7.1	34
194	Nitrogen doped carbon dots: mechanism investigation and their application for label free CA125 analysis. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 3053-3058	7.3	33
193	A multicoloured Au NCs based cross-reactive sensor array for discrimination of multiple proteins. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 4207-4213	7.3	32
192	Label-free electrochemical aptasensor for adenosine detection based on cascade signal amplification strategy. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 90, 356-362	11.8	32

191	Enhanced electropolymerization of poly(xanthurenic acid)-MoS film for specific electrocatalytic detection of guanine and adenine. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 4884-4891	7.3	32
190	Electrochemical sensor for nitrobenzene based on carbon paste electrode modified with a poly(3,4-ethylenedioxythiophene) and carbon nanotube nanocomposite. <i>Mikrochimica Acta</i> , <b>2014</b> , 181, 463-469	5.8	32
189	Electrochemical Biosensors Capable of Detecting Biomarkers in Human Serum with Unique Long-Term Antifouling Abilities Based on Designed Multifunctional Peptides. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 7186-7193	7.8	32
188	Ultrasensitive label-free electrochemical immunoassay of carbohydrate antigen 15-3 using dendritic Au@Pt nanocrystals/ferrocene-grafted-chitosan for efficient signal amplification. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 292, 164-170	8.5	31
187	Simple one-pot aqueous synthesis of 3D superstructured PtCoCuPd alloyed tripods with hierarchical branches for ultrasensitive immunoassay of cardiac troponin I. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 145, 111638	11.8	31
186	Ultrathin nickel hydroxide nanosheets with a porous structure for efficient electrocatalytic urea oxidation. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 26364-26370	13	31
185	Cobalt and nickel bimetallic sulfide nanoparticles immobilized on montmorillonite demonstrating peroxidase-like activity for H <sub>2</sub> O <sub>2</sub> detection. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 18749-18758	3.6	31
184	Ultrahighly Efficient and Stable Fluorescent Gold Nanoclusters Coated with Screened Peptides of Unique Sequences for Effective Protein and Serum Discrimination. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 13947-13952 <sup>30</sup>	7.8	30
183	Separating photoanode from recognition events: toward a general strategy for a self-powered photoelectrochemical immunoassay with both high sensitivity and anti-interference capabilities. <i>Chemical Communications</i> , <b>2018</b> , 54, 7062-7065	5.8	30
182	Low fouling electrochemical sensing in complex biological media by using the ionic liquid-doped conducting polymer PEDOT: application to voltammetric determination of dopamine. <i>Mikrochimica Acta</i> , <b>2019</b> , 186, 220	5.8	29
181	Dual ligand co-functionalized fluorescent gold nanoclusters for the "turn on" sensing of glutathione in tumor cells. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 1270-1275	7.3	29
180	Designed Three-in-One Peptides with Anchoring, Antifouling, and Recognizing Capabilities for Highly Sensitive and Low-Fouling Electrochemical Sensing in Complex Biological Media. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 5795-5802	7.8	28
179	Novel dual ligand co-functionalized fluorescent gold nanoclusters as a versatile probe for sensitive analysis of Hg(2+) and oxytetracycline. <i>Analytical and Bioanalytical Chemistry</i> , <b>2016</b> , 408, 2955-62	4.4	28
178	An antifouling electrochemical immunosensor for carcinoembryonic antigen based on hyaluronic acid doped conducting polymer PEDOT. <i>RSC Advances</i> , <b>2016</b> , 6, 88411-88416	3.7	28
177	Biodegradable nanoprobe based on MnO nanoflowers and graphene quantum dots for near infrared fluorescence imaging of glutathione in living cells. <i>Mikrochimica Acta</i> , <b>2018</b> , 185, 485	5.8	28
176	Cost-effective preparation and sensing application of conducting polymer PEDOT/ionic liquid nanocomposite with excellent electrochemical properties. <i>RSC Advances</i> , <b>2015</b> , 5, 20741-20746	3.7	27
175	Preparation and electrochemical catalytic application of nanocrystalline cellulose doped poly(3,4-ethylenedioxythiophene) conducting polymer nanocomposites. <i>RSC Advances</i> , <b>2014</b> , 4, 24328-24333	2.7	27
174	Photoelectrochemical dopamine sensor based on a gold electrode modified with SnSe nanosheets. <i>Mikrochimica Acta</i> , <b>2017</b> , 184, 3333-3338	5.8	26



173	Coupling photoelectrochemical and electrochemical strategies in one probe electrode: Toward sensitive and reliable dual-signal bioassay for uracil-DNA glycosylase activity. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 142, 111569	11.8	26
172	Enzymatic nanolithography of polyaniline nanopatterns by using peroxidase-modified atomic force microscopy tips. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 5191-4	4.8	26
171	Nanocauliflowers: A Nanostructured Polyaniline-Modified Screen-Printed Electrode with a Self-Assembled Polystyrene Template and Its Application in an Amperometric Enzyme Biosensor. <i>Electroanalysis</i> , <b>2007</b> , 19, 876-883	3	26
170	A glassy carbon electrode modified with poly(3,4-ethylenedioxythiophene) doped with nano-sized hydroxyapatite for amperometric determination of nitrite. <i>Mikrochimica Acta</i> , <b>2017</b> , 184, 1721-1727	5.8	25
169	Nucleic acid-based ratiometric electrochemiluminescent, electrochemical and photoelectrochemical biosensors: a review. <i>Mikrochimica Acta</i> , <b>2019</b> , 186, 405	5.8	25
168	Aptamer based label free thrombin assay based on the use of silver nanoparticles incorporated into self-polymerized dopamine. <i>Mikrochimica Acta</i> , <b>2018</b> , 185, 253	5.8	25
167	A sensitive chemiluminescence method for the determination of cysteine based on silver nanoclusters. <i>Mikrochimica Acta</i> , <b>2012</b> , 179, 323-328	5.8	25
166	Nitrogen-doped graphene and conducting polymer PEDOT hybrids for flexible supercapacitor and electrochemical sensor. <i>Electrochimica Acta</i> , <b>2020</b> , 355, 136772	6.7	25
165	Reagentless and label-free voltammetric immunosensor for carcinoembryonic antigen based on polyaniline nanowires grown on porous conducting polymer composite. <i>Mikrochimica Acta</i> , <b>2017</b> , 184, 889-896	5.8	24
164	Highly selective ratiometric electrogenerated chemiluminescence assay of DNA methyltransferase activity via polyaniline and anti-fouling peptide modified electrode. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 142, 111553	11.8	24
163	Highly Sensitive Electrochemiluminescence Detection of Mercury(II) Ions Based on DNA-Linked Luminol-Au NPs Superstructure. <i>Electroanalysis</i> , <b>2014</b> , 26, 823-830	3	24
162	Scaling up an electrochemical signal with a catalytic hairpin assembly coupling nanocatalyst label for DNA detection. <i>Chemical Communications</i> , <b>2015</b> , 51, 7100-3	5.8	24
161	Designed antifouling peptides planted in conducting polymers through controlled partial doping for electrochemical detection of biomarkers in human serum. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 164, 112317	11.8	24
160	Designed zwitterionic peptide combined with sacrificial Fe-MOF for low fouling and highly sensitive electrochemical detection of T4 polynucleotide kinase. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 305, 127329	8.5	24
159	Amperometric sensing of nitrite using a glassy carbon electrode modified with a multilayer consisting of carboxylated nanocrystalline cellulose and poly(diallyldimethyl ammonium) ions in a PEDOT host. <i>Mikrochimica Acta</i> , <b>2016</b> , 183, 2031-2037	5.8	24
158	A novel dual-functional biosensor for fluorometric detection of inorganic pyrophosphate and pyrophosphatase activity based on globulin stabilized gold nanoclusters. <i>Analytica Chimica Acta</i> , <b>2017</b> , 958, 22-29	6.6	23
157	Poly(3,4-ethylenedioxythiophene) doped with engineered carbon quantum dots for enhanced amperometric detection of nitrite. <i>Mikrochimica Acta</i> , <b>2018</b> , 185, 249	5.8	23
156	The mimetic assembly of cobalt prot-porphyrin with cyclodextrin dimer and its application for HO detection. <i>Analytica Chimica Acta</i> , <b>2020</b> , 1097, 78-84	6.6	23

155	"Nanofingers" based on binary gold-polypyrrole nanowires. <i>Small</i> , <b>2008</b> , 4, 738-41	11	22
154	A facile ratiometric electrochemical strategy for ultrasensitive monitoring HER2 using polydopamine-grafted-ferrocene/reduced graphene oxide, Au@Ag nanoshuttles and hollow Ni@PtNi yolk-shell nanocages. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 331, 129460	8.5	22
153	Ratiometric Antifouling Electrochemical Biosensors Based on Multifunctional Peptides and MXene Loaded with Au Nanoparticles and Methylene Blue. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 20388-20396	9.5	22
152	Nitrite Oxidation with Copper-Cobalt Nanoparticles on Carbon Nanotubes Doped Conducting Polymer PEDOT Composite. <i>Chemistry - an Asian Journal</i> , <b>2015</b> , 10, 1892-7	4.5	21
151	Antifouling Peptide Hydrogel Based Electrochemical Biosensors for Highly Sensitive Detection of Cancer Biomarker HER2 in Human Serum. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 7355-7361	7.8	21
150	Enzymeless voltammetric hydrogen peroxide sensor based on the use of PEDOT doped with Prussian Blue nanoparticles. <i>Mikrochimica Acta</i> , <b>2017</b> , 184, 483-489	5.8	20
149	Construction of ultrasensitive label-free aptasensor for thrombin detection using palladium nanocones boosted electrochemiluminescence system. <i>Electrochimica Acta</i> , <b>2019</b> , 310, 195-202	6.7	20
148	Nonenzymatic Amperometric Aptamer Cytosensor for Ultrasensitive Detection of Circulating Tumor Cells and Dynamic Evaluation of Cell Surface N-Glycan Expression. <i>ACS Omega</i> , <b>2018</b> , 3, 8595-8604	7.9	20
147	One-pot enzyme- and indicator-free colorimetric sensing of glucose based on MnO <sub>2</sub> nano-oxidizer. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 304, 127304	8.5	20
146	A conducting polymer PEDOT:PSS hydrogel based wearable sensor for accurate uric acid detection in human sweat. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 348, 130674	8.5	20
145	Engineering of ATP-Powered Photosensitizer for Targeted Recycling Activatable Imaging of MicroRNA and Controllable Cascade Amplification Photodynamic Therapy. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 7879-7886	7.8	19
144	A label-free electrochemical immunosensor based on rhombic dodecahedral Cu <sub>3</sub> Pt nanoframes with advanced oxygen reduction performance for highly sensitive alpha-fetoprotein detection. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 288, 721-727	8.5	19
143	A dopamine sensor based on a carbon paste electrode modified with DNA-doped poly(3,4-ethylenedioxythiophene). <i>Mikrochimica Acta</i> , <b>2015</b> , 182, 679-685	5.8	19
142	Facile synthesis of AgPt@Ag core-shell nanoparticles as highly active surface-enhanced Raman scattering substrates. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 260, 945-952	8.5	19
141	Adenosine triphosphate responsive metal-organic frameworks equipped with a DNA structure lock for construction of a ratiometric SERS biosensor. <i>Chemical Communications</i> , <b>2020</b> , 56, 1413-1416	5.8	19
140	Green synthesis of Pd nanocones as a novel and effective electrochemiluminescence illuminant for highly sensitive detection of dopamine. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 281, 588-594	8.5	19
139	Photoelectrochemical cell enhanced by ternary heterostructured photoanode: Toward high-performance self-powered cathodic cytosensing. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 137, 52-57	11.8	18
138	Two-dimensional porphyrin-Co <sub>9</sub> S <sub>8</sub> nanocomposites with synergistic peroxidase-like catalysis: Synthesis and application toward colorimetric biosensing of H <sub>2</sub> O <sub>2</sub> and glutathione. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2019</b> , 568, 248-258	5.1	18

137	One-pot synthesis of biofunctional and near-infrared fluorescent gold nanodots and their application in Pb <sup>2+</sup> sensing and tumor cell imaging. <i>RSC Advances</i> , <b>2015</b> , 5, 3152-3156	3.7	18
136	Ultrasensitive dual-signal ratiometric electrochemical aptasensor for neuron-specific enolase based on Au nanoparticles@Pd nanoclusters-poly(bismarck brown Y) and dendritic AuPt nanoassemblies. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 311, 127931	8.5	18
135	Visible-Light Driven Photoelectrochemical Platform Based on the Cyclometalated Iridium(III) Complex with Coumarin 6 for Detection of MicroRNA. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 14239-14246	7.8	18
134	Bioinspired one-pot fabrication of triple-layered Rh@Co@Pt-skin core-shell nanodendrites: A highly active and durable electrocatalyst towards oxygen reduction reaction. <i>Electrochimica Acta</i> , <b>2019</b> , 321, 134660	6.7	17
133	Three-Dimensional Nanoporous Conducting Polymer Poly(3,4-ethylenedioxythiophene) (PEDOT) Decorated with Copper Nanoparticles: Electrochemical Preparation and Enhanced Nonenzymatic Glucose Sensing. <i>ChemElectroChem</i> , <b>2016</b> , 3, 1799-1804	4.3	17
132	Ultrasensitive detection of microRNA-21 based on plasmon-coupling-induced electrochemiluminescence enhancement. <i>Electrochemistry Communications</i> , <b>2018</b> , 94, 36-40	5.1	17
131	Ultrasensitive ratiometric electrochemical immunoassay of N-terminal pro-B-type natriuretic peptide based on three-dimensional PtCoNi hollow multi-branches/ferrocene-grafted-ionic liquid and Co N C nanosheets. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 326, 128794	8.5	17
130	Multi-segmented CdS-Au nanorods for electrochemiluminescence bioanalysis. <i>Nanoscale</i> , <b>2018</b> , 10, 19224-19230	4.7	17
129	Water-soluble carbon dots with blue, yellow and red emissions: mechanism investigation and array-based fast sensing application. <i>Chemical Communications</i> , <b>2020</b> , 56, 4074-4077	5.8	16
128	Photoelectrochemical platform for cancer cell glutathione detection based on polyaniline and nanoMoS <sub>2</sub> composites modified gold electrode. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 112, 93-99	11.8	16
127	A DNA-linker-DNA bifunctional probe for simultaneous SERS detection of miRNAs via symmetric signal amplification. <i>Chemical Communications</i> , <b>2018</b> , 54, 7786-7789	5.8	16
126	Electrochemical aptasensor based on Au@HS-rGO and thymine-Hg <sup>2+</sup> -thymine structure for sensitive detection of mercury ion. <i>Journal of Electroanalytical Chemistry</i> , <b>2019</b> , 848, 113308	4.1	15
125	Concatenated logic gates by amplified chemiluminescence of hemin/G-Quadruplex DNAzyme based on a nonlinear hybridization chain reaction. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 246, 734-739	8.5	14
124	Robust photoelectrochemical cytosensor in biological media using antifouling property of zwitterionic peptide. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 299, 126996	8.5	14
123	Aqueously synthesized color-tunable quaternary Cu-In-Zn-S quantum dots for Cu(II) detection via mild and rapid cation exchange. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 294, 32-39	8.5	14
122	Antifouling and conducting PEDOT derivative grafted with polyglycerol for highly sensitive electrochemical protein detection in complex biological media. <i>Journal of Electroanalytical Chemistry</i> , <b>2019</b> , 840, 272-278	4.1	14
121	A fast and ultrasensitive detection of zinc ions based on signal on mode of electrochemiluminescence from single oxygen generated by porphyrin grafted onto palladium nanocubes. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 290, 203-209	8.5	14
120	A bioresponsive controlled-release bioassay based on aptamer-gated Au nanocages and its application in living cells. <i>Chemical Communications</i> , <b>2015</b> , 51, 9109-12	5.8	14

119	Electrochemical biosensors for the detection of carcinoembryonic antigen with low fouling and high sensitivity based on copolymerized polydopamine and zwitterionic polymer. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 319, 128253	8.5	14
118	Hyaluronic acid functionalized nanostructured sensing interface for voltammetric determination of microRNA in biological media with ultra-high sensitivity and ultra-low fouling. <i>Mikrochimica Acta</i> , <b>2018</b> , 185, 156	5.8	14
117	Construction of efficient "on-off-on" fluorescence aptasensor for ultrasensitive detection of prostate specific antigen via covalent energy transfer between g-CN quantum dots and palladium triangular plates. <i>Analytica Chimica Acta</i> , <b>2020</b> , 1104, 53-59	6.6	14
116	Ratiometric Multicolor Analysis of Intracellular MicroRNA Using a Chain Hybrid Substitution-Triggered Self-Assembly of Silver Nanocluster-Based Label-Free Sensing Platform. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 373-379	9.5	14
115	Low fouling electrochemical biosensors based on designed Y-shaped peptides with antifouling and recognizing branches for the detection of IgG in human serum. <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 178, 113016	11.8	14
114	More Symmetrical "Hot Spots" Ensure Stronger Plasmon-Enhanced Fluorescence: From Au Nanorods to Nanostars. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 2480-2489	7.8	14
113	Mismatched catalytic hairpin assembly coupling hydroxylamine-O-sulfonic acid as oxide for DNA assay. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 254, 347-353	8.5	13
112	A nanocomposite consisting of MnO nanoflowers and the conducting polymer PEDOT for highly sensitive amperometric detection of paracetamol. <i>Mikrochimica Acta</i> , <b>2019</b> , 186, 499	5.8	13
111	Peptide-based biosensor for the prostate-specific antigen using magnetic particle-bound invertase and a personal glucose meter for readout. <i>Mikrochimica Acta</i> , <b>2015</b> , 182, 1669-1675	5.8	13
110	Core-Shell Multifunctional Nanomaterial-Based All-in-One Nanoplatfor for Simultaneous Multilayer Imaging of Dual Types of Tumor Biomarkers and Photothermal Therapy. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 15169-15178	7.8	13
109	Combining evident photocurrent of photoanode with signal amplification of biocathode: toward a sensitivity and specificity enhanced photoelectrochemical immunosensor. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 283, 705-713	8.5	13
108	A coumarin-appended cyclometalated iridium(III) complex for visible light driven photoelectrochemical bioanalysis. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 147, 111779	11.8	13
107	Liquid Phase Interfacial Surface-Enhanced Raman Scattering Platform for Ratiometric Detection of MicroRNA 155. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 15573-15578	7.8	12
106	A DNA Nanotube-Peptide Biocomplex for mRNA Detection and Its Application in Cancer Diagnosis and Targeted Therapy. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 10171	4.8	12
105	Strongly emitting and long-lived silver indium sulfide quantum dots for bioimaging: Insight into co-ligand effect on enhanced photoluminescence. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 565, 35-42	9.3	12
104	Electrochemical preparation of thin-layered molybdenum disulfide-poly(m-aminobenzenesulfonic acid) nanocomposite for TNT detection. <i>Journal of Electroanalytical Chemistry</i> , <b>2016</b> , 781, 70-75	4.1	12
103	A Host-Guest Interaction-Based and Metal-Organic Gel-Based Biosensor with Aggregation-Induced Electrochemiluminescence Enhancement for Methyltransferase Assay. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 2974-2981	7.8	12
102	Bovine Serum Albumin-Cross-Linked Polyaniline Nanowires for Ultralow Fouling and Highly Sensitive Electrochemical Protein Quantification in Human Serum Samples. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 4326-4333	7.8	12

101	Ultrasensitive and accelerated detection of ciguatoxin by capillary electrophoresis via on-line sandwich immunoassay with rotating magnetic field and nanoparticles signal enhancement. <i>Analytica Chimica Acta</i> , <b>2015</b> , 888, 27-35	6.6	11
100	Antifouling sensors based on peptides for biomarker detection. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2020</b> , 127, 115903	14.6	11
99	The Yin and Yang of coordinating co-solvents in the size-tuning of FeO nanocrystals through flow synthesis. <i>Nanoscale</i> , <b>2017</b> , 9, 18609-18612	7.7	11
98	One-step electrodeposition of poly(m-aminobenzoic acid) membrane decorated with peptide for antifouling biosensing of Immunoglobulin E. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2020</b> , 186, 110706	6	11
97	Ratiometric electrogenerated chemiluminescence sensor based on a designed anti-fouling peptide for the detection of carcinoembryonic antigen. <i>Analytica Chimica Acta</i> , <b>2020</b> , 1136, 134-140	6.6	11
96	Ultrasensitive Nucleic Acid Assay Based on AIE-Active Polymer Dots with Excellent Electrochemiluminescence Stability. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 6857-6864	7.8	11
95	Toehold-aided DNA recycling amplification using hemin and G-quadruplex reporter DNA on magnetic beads as tags for chemiluminescent determination of riboflavin. <i>Mikrochimica Acta</i> , <b>2016</b> , 183, 2965-2971	5.8	11
94	Biocompatible off-stoichiometric copper indium sulfide quantum dots with tunable near-infrared emission via aqueous based synthesis. <i>Chemical Communications</i> , <b>2019</b> , 55, 15053-15056	5.8	11
93	Enhanced peroxidase-like activity of MMT-supported cuprous oxide nanocomposites toward rapid colorimetric estimation of H <sub>2</sub> O <sub>2</sub> . <i>Applied Organometallic Chemistry</i> , <b>2019</b> , 33, e4716	3.1	11
92	AuPt nanocrystals/polydopamine supported on open-pored hollow carbon nanospheres for a dual-signaling electrochemical ratiometric immunosensor towards h-FABP detection. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 346, 130501	8.5	11
91	A lab-on-a-carbon nanodot sensor array for simultaneous pattern recognition of multiple antibiotics. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 296, 126694	8.5	10
90	Controllable synthesis of 3D nitrogen-doped carbon networks supported Sn P nanoparticles as high performance anode for lithium ion batteries. <i>Applied Surface Science</i> , <b>2019</b> , 484, 899-905	6.7	10
89	Zinc ion-triggered aggregation induced emission enhancement of dual ligand co-functionalized gold nanoclusters based novel fluorescent nanoswitch for multi-component detection. <i>Analytica Chimica Acta</i> , <b>2019</b> , 1079, 192-199	6.6	10
88	A flexible and highly sensitive nitrite sensor enabled by interconnected 3D porous polyaniline/carbon nanotube conductive hydrogels. <i>Analytical Methods</i> , <b>2020</b> , 12, 604-610	3.2	10
87	Shell-Switchable SERS Blocking Strategy for Reliable Signal-On SERS Sensing in Living Cells: Detecting an External Target without Affecting the Internal Raman Molecule. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 11469-11475	7.8	10
86	Peptide-Based Photocathodic Biosensors: Integrating a Recognition Peptide with an Antifouling Peptide. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 2706-2712	7.8	10
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84	Synthesis of amphiphilic graphitic silver nanoparticles with inherent internal standards: an efficient strategy for reliable quantitative SERS analysis in common fluids. <i>Chemical Communications</i> , <b>2018</b> , 54, 8618-8621	5.8	9



83	A distance-triggered signaling on-off mechanism by plasmonic Au nanoparticles: toward advanced photocathodic DNA bioanalysis. <i>Chemical Communications</i> , <b>2020</b> , 56, 1345-1348	5.8	9
82	Biocompatible peptide hydrogels with excellent antibacterial and catalytic properties for electrochemical sensing application. <i>Analytica Chimica Acta</i> , <b>2021</b> , 1154, 338295	6.6	9
81	Eco-friendly one-pot aqueous synthesis of ultra-thin AuPdCu alloyed nanowire-like networks for highly sensitive immunoassay of creatine kinase-MB. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 333, 129573	8.5	9
80	All-polymer free-standing electrodes for flexible electrochemical sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 334, 129675	8.5	9
79	Construction of a Dye-Sensitized and Gold Plasmon-Enhanced Cathodic Photoelectrochemical Biosensor for Methyltransferase Activity Assay. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 10310-10316	7.8	9
78	An ultra-sensitive fluorescent "Turn On" biosensor for glutathione and its application in living cells. <i>Analytica Chimica Acta</i> , <b>2018</b> , 998, 45-51	6.6	9
77	Facile construction of ratiometric electrochemical immunosensor using hierarchical PtCoIr nanowires and porous SiO@Ag nanoparticles for accurate detection of septicemia biomarker. <i>Bioelectrochemistry</i> , <b>2021</b> , 140, 107802	5.6	9
76	Intracellular fluorometric determination of microRNA-21 by using a switch-on nanoprobe composed of carbon nanotubes and gold nanoclusters. <i>Mikrochimica Acta</i> , <b>2019</b> , 186, 447	5.8	8
75	In situ sulfidation for controllable hetero-interface engineering of Ni(OH)-NiS hybrid structures realizing robust electrocatalytic methanol oxidation. <i>Chemical Communications</i> , <b>2020</b> , 56, 5283-5286	5.8	8
74	Photoelectrochemical endocrine-disrupting chemicals aptasensor based on resonance energy transfer between SnSe/GR and AuNPs along with GSSG for signal amplification. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 260, 388-395	8.5	8
73	Isothermal amplified detection of ATP using Au nanocages capped with a DNA molecular gate and its application in cell lysates. <i>Analyst, The</i> , <b>2015</b> , 140, 1672-7	5	8
72	Development of a Single Quantum Dot-Mediated FRET Nanosensor for Sensitive Detection of Single-Nucleotide Polymorphism in Cancer Cells. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 14568-14576	7.8	8
71	All-polymer ultrathin flexible supercapacitors for electronic skin. <i>Chemical Engineering Journal</i> , <b>2021</b> , 405, 126915	14.7	8
70	Anti-Fouling Magnetic Beads Combined with Signal Amplification Strategies for Ultra-Sensitive and Selective Electrochemiluminescence Detection of MicroRNAs in Complex Biological Media. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 10679-10687	7.8	8
69	A label-free electrochemical immunosensor based on encapsulated signal molecules in mesoporous silica-coated gold nanorods for ultrasensitive assay of procalcitonin. <i>Bioelectrochemistry</i> , <b>2021</b> , 140, 107753	5.6	8
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67	Aggregation-induced emission based one-step "lighting up" sensor array for rapid protein identification. <i>Chemical Communications</i> , <b>2020</b> , 56, 13828-13831	5.8	7
66	Advances in Portable Visual Detection of Pathogenic Bacteria.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 7291-7305	7.3	7



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64	A novel SERS substrate with high reusability for sensitive detection of miRNA 21. <i>Talanta</i> , <b>2021</b> , 228, 122240	6.2	7
63	Label-Free and Template-Free Chemiluminescent Biosensor for Sensitive Detection of 5-Hydroxymethylcytosine in Genomic DNA. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 1939-1943	7.8	7
62	Antifouling Aptasensor Based on Self-Assembled Loop-Closed Peptides with Enhanced Stability for CA125 Assay in Complex Biofluids. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 13555-13563	7.8	7
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60	Low fouling and ultrasensitive electrochemical immunosensors with dual assay methods based on FeO magnetic nanoparticles. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 5842-5847	7.3	6
59	Novel cathodic photoelectrochemical immunosensor with high sensitivity based on 3D AuNPs/ZnO/Cu <sub>2</sub> O heterojunction nanowires. <i>Electrochimica Acta</i> , <b>2019</b> , 318, 100-107	6.7	6
58	Perylene diimide-modified magnetic Fe <sub>2</sub> O <sub>3</sub> /CeO <sub>2</sub> nanoparticles as peroxidase mimics for highly sensitive colorimetric detection of Vitamin C. <i>Applied Organometallic Chemistry</i> , <b>2019</b> , 33, e4884	3.1	6
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56	Ultrasensitive iodide detection based on the resonance light scattering of histidine-stabilized gold nanoclusters. <i>Mikrochimica Acta</i> , <b>2014</b> , 181, 1379-1384	5.8	6
55	5-Hydroxymethylcytosine Glucosylation-Triggered Helicase-Dependent Amplification-Based Fluorescent Biosensor for Sensitive Detection of $\beta$ -Glucosyltransferase with Zero Background Signal. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 16307-16313	7.8	6
54	Ratiometric antifouling electrochemiluminescence biosensor based on bi-functional peptides and low toxic quantum dots. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 322, 128613	8.5	6
53	Ligand-modulated aqueous synthesis of color-tunable copper nanoclusters for the photoluminescent assay of Hg(II). <i>Mikrochimica Acta</i> , <b>2020</b> , 187, 545	5.8	6
52	Functionalized Germanene-Based Nanomaterials for the Detection of Single Nucleotide Polymorphism. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 5164-5175	5.6	6
51	Free-standing electrochemical biosensor for carcinoembryonic antigen detection based on highly stable and flexible conducting polypyrrole nanocomposite. <i>Mikrochimica Acta</i> , <b>2021</b> , 188, 217	5.8	6
50	An ultrasensitive biosensor based on three-dimensional nanoporous conducting polymer decorated with gold nanoparticles for microRNA detection. <i>Microchemical Journal</i> , <b>2021</b> , 161, 105780	4.8	6
49	Preparation and electrochemical sensing application of porous conducting polymers. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2021</b> , 135, 116155	14.6	6
48	Antifouling biosensors for reliable protein quantification in serum based on designed all-in-one branched peptides. <i>Chemical Communications</i> , <b>2021</b> , 57, 777-780	5.8	6

47	Antifouling peptides combined with recognizing DNA probes for ultralow fouling electrochemical detection of cancer biomarkers in human bodily fluids.. <i>Biosensors and Bioelectronics</i> , <b>2022</b> , 206, 114162	11.8	6
46	A two-wavelength fluorescence recovery method for the simultaneous determination of aureomycin and oxytetracycline by using gold nanocrystals modified with serine and 11-mercaptopundecanoic acid. <i>Mikrochimica Acta</i> , <b>2018</b> , 185, 222	5.8	5
45	Bipolar Aggregation-Induced Electrochemiluminescence of Thiophene-Fused Conjugated Microporous Polymers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 28782-28789	9.5	5
44	Dual-Mode Scattering Nanoprobes for Imaging Hydrogen Sulfide in Living Cells. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 7319-7329	5.6	5
43	From Passive Signal Output to Intelligent Response: "On-Demand" Precise Imaging Controlled by Near-Infrared Light. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 12329-12336	7.8	5
42	High-Performance Piezo-Electrocatalytic Sensing of Ascorbic Acid with Nanostructured Wurtzite Zinc Oxide.. <i>Advanced Materials</i> , <b>2021</b> , 33, e2105697	24	5
41	Nanosheets-assembled hollow CdIn <sub>2</sub> S <sub>4</sub> microspheres-based photoelectrochemical and fluorescent dual-mode aptasensor for highly sensitive assay of 17 $\beta$ -estradiol based on magnetic separation and enzyme catalytic amplification. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 347, 130553	8.5	5
40	A AuNP-capped cage fluorescent biosensor based on controlled-release and cyclic enzymatic amplification for ultrasensitive detection of ATP. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 5945-5951	7.3	4
39	Introduction of an antifouling photoelectrode: an effective strategy for a high-performance photoelectrochemical cytosensor. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 4836-4840	7.3	4
38	Electrochemical Biosensor with Enhanced Antifouling Capability Based on Amyloid-like Bovine Serum Albumin and a Conducting Polymer for Ultrasensitive Detection of Proteins in Human Serum. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 14351-14357	7.8	4
37	Target-triggered configuration change of DNA tetrahedron for SERS assay of microRNA 122. <i>Mikrochimica Acta</i> , <b>2020</b> , 187, 460	5.8	4
36	Rapid pattern recognition of different types of sulphur-containing species as well as serum and bacteria discrimination using Au NCS-Cu <sup>2+</sup> complexes. <i>Chinese Chemical Letters</i> , <b>2020</b> , 31, 2473-2477	8.1	4
35	Partial sulfidation for constructing Cu <sub>2</sub> O/CuS heterostructures realizing enhanced electrochemical glucose sensing. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 7204-7209	3.6	4
34	Electrochemical sensing interfaces based on hierarchically architected zwitterionic peptides for ultralow fouling detection of alpha fetoprotein in serum. <i>Analytica Chimica Acta</i> , <b>2021</b> , 1146, 17-23	6.6	4
33	A novel ratiometric electrochemical cupric ion sensing strategy based on unmodified electrode. <i>Analytica Chimica Acta</i> , <b>2021</b> , 1146, 11-16	6.6	4
32	Wearable transdermal colorimetric microneedle patch for Uric acid monitoring based on peroxidase-like polypyrrole nanoparticles. <i>Analytica Chimica Acta</i> , <b>2022</b> , 1212, 339911	6.6	4
31	Shadow masking for nanomaterial-based biosensors incorporated with a microfluidic device. <i>Biomedical Microdevices</i> , <b>2013</b> , 15, 531-7	3.7	3
30	Construction of a Structure-Switchable Toehold Dumbbell Probe for Sensitive and Label-Free Measurement of MicroRNA in Cancer Cells and Tissues.. <i>Analytical Chemistry</i> , <b>2022</b> ,	7.8	3

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28	Dual Recognition DNA Triangular Prism Nanoprobe: Toward the Relationship between K and pH in Lysosomes. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 14892-14899	7.8	3
27	Covalent Amide-Bonded Nanoflares for High-Fidelity Intracellular Sensing and Targeted Therapy: A Superstable Nanosystem Free of Nonspecific Interferences. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 7879-7888	7.8	3
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19	Photoliquefiable DNA-surfactant ionic crystals: Anhydrous self-healing biomaterials at room temperature. <i>Acta Biomaterialia</i> , <b>2021</b> , 128, 143-149	10.8	2
18	Advances in Detection of Epigenetic Modificationβ-Hydroxymethylcytosine. <i>Acta Chimica Sinica</i> , <b>2021</b> , 79, 614	3.3	2
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13	Catalytic single-molecule Förster resonance energy transfer biosensor for uracil-DNA glycosylase detection and cellular imaging. <i>Biosensors and Bioelectronics</i> , <b>2022</b> , 114447	11.8	2
12	Controlled-Release-Based Ultrasensitive and Highly Selective Turn-On Fluorescent Mercury Biosensor. <i>ChemistrySelect</i> , <b>2017</b> , 2, 11880-11885	1.8	1

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10	Low-Fouling Magnetic Nanoparticles and Evaluation of Their Potential Application as Disease Markers Assay in Whole Serum. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 2489-2495	5.6	1
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8	Wearable transdermal microneedle patch based on photonic crystal hydrogel for glucose monitoring. <i>Chinese Journal of Analytical Chemistry</i> , <b>2022</b> , 50, 100054	1.6	1
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