Ya-Qin Chai

List of Publications by Citations

365	12,397	59	82
papers	citations	h-index	g-index
379	14,709	7.4	7.12
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
365	Electrochemical sensing of hydrogen peroxide using metal nanoparticles: a review. *Mikrochimica Acta*, **2013**, 180, 15-32	5.8	382
364	In situ hybridization chain reaction amplification for universal and highly sensitive electrochemiluminescent detection of DNA. *Analytical Chemistry*, **2012**, 84, 7750-5	7.8	257
363	An "off-on" electrochemiluminescent biosensor based on DNAzyme-assisted target recycling and rolling circle amplifications for ultrasensitive detection of microRNA. *Analytical Chemistry*, **2015**, 87, 3202-7	7.8	161
362	Highly Ordered and Field-Free 3D DNA Nanostructure: The Next Generation of DNA Nanomachine for Rapid Single-Step Sensing. *Journal of the American Chemical Society*, **2018**, 140, 9361-9364	16.4	142
361	A multifunctional hemin@metal-organic framework and its application to construct an electrochemical aptasensor for thrombin detection. *Nanoscale*, **2015**, 7, 18232-8	7.7	140
360	In Situ Electrochemical Generation of Electrochemiluminescent Silver Naonoclusters on Target-Cycling Synchronized Rolling Circle Amplification Platform for MicroRNA Detection. *Analytical Chemistry*, **2016**, 88, 3203-10	7.8	136
359	Cu-Based Metal-Organic Frameworks as a Catalyst To Construct a Ratiometric Electrochemical Aptasensor for Sensitive Lipopolysaccharide Detection. *Analytical Chemistry*, **2015**, 87, 11345-52	7.8	131
358	Signal-off Electrochemiluminescence Biosensor Based on Phi29 DNA Polymerase Mediated Strand Displacement Amplification for MicroRNA Detection. *Analytical Chemistry*, **2015**, 87, 6328-34	7.8	127
357	Electrochemiluminescence Resonance Energy Transfer System: Mechanism and Application in Ratiometric Aptasensor for Lead Ion. *Analytical Chemistry*, **2015**, 87, 7787-94	7.8	120
356	In situ DNA-templated synthesis of silver nanoclusters for ultrasensitive and label-free electrochemical detection of microRNA. *ACS Applied Materials & Interfaces*, **2015**, 7, 1188-93	9.5	117
355	Strong Electrochemiluminescence from MOF Accelerator Enriched Quantum Dots for Enhanced Sensing of Trace cTnI. *Analytical Chemistry*, **2018**, 90, 3995-4002	7.8	110
354	Ceria Doped Zinc Oxide Nanoflowers Enhanced Luminol-Based Electrochemiluminescence Immunosensor for Amyloid-□Detection. *ACS Applied Materials & Interfaces*, **2016**, 8, 12968-75	9.5	109
353	Multiplexed and amplified electronic sensor for the detection of microRNAs from cancer cells. *Analytical Chemistry*, **2014**, 86, 11913-8	7.8	104
352	Ultrasensitive apurinic/apyrimidinic endonuclease 1 immunosensing based on self-enhanced electrochemiluminescence of a Ru(II) complex. *Analytical Chemistry*, **2014**, 86, 1053-60	7.8	100
351	Ultrasensitive simultaneous detection of four biomarkers based on hybridization chain reaction and biotin-streptavidin signal amplification strategy. *Biosensors and Bioelectronics*, **2015**, 68, 42-48	11.8	99
350	Electrochemiluminescent Graphene Quantum Dots as a Sensing Platform: A Dual Amplification for MicroRNA Assay. *Analytical Chemistry*, **2015**, 87, 10385-91	7.8	98
349	Electrochemiluminescence Biosensor Based on 3-D DNA Nanomachine Signal Probe Powered by Protein-Aptamer Binding Complex for Ultrasensitive Mucin 1 Detection. *Analytical Chemistry*, **2017**, 89, 4280-4286	7.8	97

348	DNA-fueled molecular machine enables enzyme-free target recycling amplification for electronic detection of microRNA from cancer cells with highly minimized background noise. *Analytical Chemistry*, **2015**, 87, 8578-83	7.8	92
347	Bi-directional DNA Walking Machine and Its Application in an Enzyme-Free Electrochemiluminescence Biosensor for Sensitive Detection of MicroRNAs. *Analytical Chemistry*, **2017**, 89, 5036-5042	7.8	91
346	Porous carbon-coated CuCo2O4 concave polyhedrons derived from metal–organic frameworks as anodes for lithium-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 12038-12043	13	90
345	Ultrasensitive Electrochemiluminescence Biosensor for MicroRNA Detection by 3D DNA Walking Machine Based Target Conversion and Distance-Controllable Signal Quenching and Enhancing. *Analytical Chemistry*, **2017**, 89, 8282-8287	7.8	90
344	"Off" to "On" Surface-Enhanced Raman Spectroscopy Platform with Padlock Probe-Based Exponential Rolling Circle Amplification for Ultrasensitive Detection of MicroRNA 155. *Analytical Chemistry*, **2017**, 89, 2866-2872	7.8	89
343	New Signal Amplification Strategy Using Semicarbazide as Co-reaction Accelerator for Highly Sensitive Electrochemiluminescent Aptasensor Construction. *Analytical Chemistry*, **2015**, 87, 11389-97	7.8	88
342	Highly sensitive impedimetric immunosensor based on single-walled carbon nanohorns as labels and bienzyme biocatalyzed precipitation as enhancer for cancer biomarker detection. *Biosensors and Bioelectronics*, **2014**, 55, 360-5	11.8	87
341	A signal-on electrochemical aptasensor for ultrasensitive detection of endotoxin using three-way DNA junction-aided enzymatic recycling and graphene nanohybrid for amplification. *Nanoscale*, **2014**, 6, 2902-8	7.7	87
340	Sensitive electrochemiluminescence detection for CA15-3 based on immobilizing luminol on dendrimer functionalized ZnO nanorods. *Biosensors and Bioelectronics*, **2015**, 63, 33-38	11.8	86
339	Near-infrared aggregation-induced enhanced electrochemiluminescence from tetraphenylethylene nanocrystals: a new generation of ECL emitters. *Chemical Science*, **2019**, 10, 4497-4501	9.4	85
338	A target responsive aptamer machine for label-free and sensitive non-enzymatic recycling amplification detection of ATP. *Chemical Communications*, **2016**, 52, 3673-6	5.8	85
337	Metal Organic Frameworks Combining CoFe2O4 Magnetic Nanoparticles as Highly Efficient SERS Sensing Platform for Ultrasensitive Detection of N-Terminal Pro-Brain Natriuretic Peptide. *ACS Applied Materials & Interfaces*, **2016**, 8, 7683-90	9.5	83
336	Electrochemiluminescence of luminol enhanced by the synergetic catalysis of hemin and silver nanoparticles for sensitive protein detection. *Biosensors and Bioelectronics*, **2014**, 54, 20-6	11.8	81
335	Electrochemical Peptide Biosensor Based on in Situ Silver Deposition for Detection of Prostate Specific Antigen. *ACS Applied Materials & Interfaces*, **2015**, 7, 13360-6	9.5	80
334	Switchable Target-Responsive 3D DNA Hydrogels As a Signal Amplification Strategy Combining with SERS Technique for Ultrasensitive Detection of miRNA 155. *Analytical Chemistry*, **2017**, 89, 8538-8544	7.8	80
333	Ultrasensitive Lipopolysaccharides Detection Based on Doxorubicin Conjugated N-(Aminobutyl)-N-(ethylisoluminol) as Electrochemiluminescence Indicator and Self-Assembled Tetrahedron DNA Dendrimers as Nanocarriers. *Analytical Chemistry*, **2016**, 88, 5218-24	7.8	79
332	Signal-Switchable Electrochemiluminescence System Coupled with Target Recycling Amplification Strategy for Sensitive Mercury Ion and Mucin 1 Assay. *Analytical Chemistry*, **2016**, 88, 9243-50	7.8	78
331	Ultrasensitive Photoelectrochemical Biosensor Based on DNA Tetrahedron as Nanocarrier for Efficient Immobilization of CdTe QDs-Methylene Blue as Signal Probe with Near-Zero Background Noise. *Analytical Chemistry*, **2018**, 90, 8211-8216	7.8	75

330	Functional Three-Dimensional Porous Conductive Polymer Hydrogels for Sensitive Electrochemiluminescence in Situ Detection of HO Released from Live Cells. *Analytical Chemistry*, **2018**, 90, 8462-8469	7.8	75
329	Development of an electrochemical method for Ochratoxin A detection based on aptamer and loop-mediated isothermal amplification. *Biosensors and Bioelectronics*, **2014**, 55, 324-9	11.8	75
328	MoS Quantum Dots as New Electrochemiluminescence Emitters for Ultrasensitive Bioanalysis of Lipopolysaccharide. *Analytical Chemistry*, **2017**, 89, 8335-8342	7.8	75
327	Ultrasensitive Assay for Telomerase Activity via Self-Enhanced Electrochemiluminescent Ruthenium Complex Doped Metal-Organic Frameworks with High Emission Efficiency. *Analytical Chemistry*, **2017**, 89, 3222-3227	7.8	74
326	Ultrasensitive electrochemical immunosensor for carbohydrate antigen 19-9 using Au/porous graphene nanocomposites as platform and Au@Pd core/shell bimetallic functionalized graphene nanocomposites as signal enhancers. *Biosensors and Bioelectronics*, **2015**, 66, 356-62	11.8	74
325	Cu Nanoclusters: Novel Electrochemiluminescence Emitters for Bioanalysis. *Analytical Chemistry*, **2016**, 88, 11527-11532	7.8	74
324	Highly Efficient Electrochemiluminescent Silver Nanoclusters/Titanium Oxide Nanomaterials as a Signal Probe for Ferrocene-Driven Light Switch Bioanalysis. *Analytical Chemistry*, **2017**, 89, 3732-3738	7.8	73
323	Morphology-Controlled 9,10-Diphenylanthracene Nanoblocks as Electrochemiluminescence Emitters for MicroRNA Detection with One-Step DNA Walker Amplification. *Analytical Chemistry*, **2018**, 90, 5298-5305	7.8	73
322	Self-Enhanced Electrochemiluminescence Nanorods of Tris(bipyridine) Ruthenium(II) Derivative and Its Sensing Application for Detection of N-Acetyl-□d-glucosaminidase. *Analytical Chemistry*, **2016**, 88, 2258-65	7.8	73
321	An amplified electrochemical immunosensor based on in situ-produced 1-naphthol as electroactive substance and graphene oxide and Pt nanoparticles functionalized CeO2 nanocomposites as signal enhancer. *Biosensors and Bioelectronics*, **2015**, 69, 321-7	11.8	72
320	Ternary Electrochemiluminescence System Based on Rubrene Microrods as Luminophore and Pt Nanomaterials as Coreaction Accelerator for Ultrasensitive Detection of MicroRNA from Cancer Cells. *Analytical Chemistry*, **2017**, 89, 9108-9115	7.8	69
319	DNA nanomachine-based regenerated sensing platform: a novel electrochemiluminescence resonance energy transfer strategy for ultra-high sensitive detection of microRNA from cancer cells. *Nanoscale*, **2017**, 9, 2310-2316	7.7	65
318	Using p-type PbS Quantum Dots to Quench Photocurrent of Fullerene-Au NP@MoS Composite Structure for Ultrasensitive Photoelectrochemical Detection of ATP. *ACS Applied Materials & Interfaces*, **2017**, 9, 42111-42120	9.5	65
317	Electrochemiluminescence Peptide-Based Biosensor with Hetero-Nanostructures as Coreaction Accelerator for the Ultrasensitive Determination of Tryptase. *Analytical Chemistry*, **2018**, 90, 2263-2270	7.8	63
316	In situ electro-polymerization of nitrogen doped carbon dots and their application in an electrochemiluminescence biosensor for the detection of intracellular lead ions. *Chemical Communications*, **2016**, 52, 5589-92	5.8	62
315	Cu/Mn Double-Doped CeO Nanocomposites as Signal Tags and Signal Amplifiers for Sensitive Electrochemical Detection of Procalcitonin. *Analytical Chemistry*, **2017**, 89, 13349-13356	7.8	61
314	Luminescence-Functionalized Metal-Organic Frameworks Based on a Ruthenium(II) Complex: A Signal Amplification Strategy for Electrogenerated Chemiluminescence Immunosensors. *Chemistry - A European Journal*, **2015**, 21, 9825-32	4.8	61
313	Highly Efficient Electrochemiluminescence Resonance Energy Transfer System in One Nanostructure: Its Application for Ultrasensitive Detection of MicroRNA in Cancer Cells. *Analytical Chemistry*, **2017**, 89, 6029-6035	7.8	60

312	Silver Ions as Novel Coreaction Accelerator for Remarkably Enhanced Electrochemiluminescence in a PTCA-SO System and Its Application in an Ultrasensitive Assay for Mercury Ions. *Analytical Chemistry*, **2018**, 90, 6851-6858	7.8	60
311	Novel 2D-DNA-Nanoprobe-Mediated Enzyme-Free-Target-Recycling Amplification for the Ultrasensitive Electrochemical Detection of MicroRNA. *Analytical Chemistry*, **2018**, 90, 9538-9544	7.8	60
310	Universal Ratiometric Photoelectrochemical Bioassay with Target-Nucleotide Transduction-Amplification and Electron-Transfer Tunneling Distance Regulation Strategies for Ultrasensitive Determination of microRNA in Cells. *Analytical Chemistry*, **2017**, 89, 9445-9451	7.8	60
309	Amperometric Hydrogen Peroxide Biosensor Based on the Immobilization of Horseradish Peroxidase (HRP) on the Layer-by-Layer Assembly Films of Gold Colloidal Nanoparticles and Toluidine Blue. *Electroanalysis*, **2006**, 18, 471-477	3	60
308	A Sensitive Electrochemical Aptasensor for Thrombin Detection Based on Electroactive Co-Based Metal-Organic Frameworks with Target-Triggering NESA Strategy. *Analytical Chemistry*, **2017**, 89, 11636-11640	7.8	59
307	Versatile and Ultrasensitive Electrochemiluminescence Biosensor for Biomarker Detection Based on Nonenzymatic Amplification and Aptamer-Triggered Emitter Release. *Analytical Chemistry*, **2019**, 91, 3452-3458	7.8	59
306	A highly sensitive VEGF photoelectrochemical biosensor fabricated by assembly of aptamer bridged DNA networks. *Biosensors and Bioelectronics*, **2018**, 101, 213-218	11.8	59
305	Ternary Electrochemiluminescence Nanostructure of Au Nanoclusters as a Highly Efficient Signal Label for Ultrasensitive Detection of Cancer Biomarkers. *Analytical Chemistry*, **2018**, 90, 10024-10030	7.8	59
304	Au nanoparticles decorated C60 nanoparticle-based label-free electrochemiluminesence aptasensor via a novel "on-off-on" switch system. *Biomaterials*, **2015**, 52, 476-83	15.6	58
303	Coupling hybridization chain reaction with catalytic hairpin assembly enables non-enzymatic and sensitive fluorescent detection of microRNA cancer biomarkers. *Biosensors and Bioelectronics*, **2016**, 77, 416-20	11.8	56
302	A sensitive electrochemical aptasensor based on palladium nanoparticles decorated graphene-molybdenum disulfide flower-like nanocomposites and enzymatic signal amplification. *Analytica Chimica Acta*, **2015**, 853, 234-241	6.6	56
301	An ultrasensitive "on-off-on" photoelectrochemical aptasensor based on signal amplification of a fullerene/CdTe quantum dots sensitized structure and efficient quenching by manganese porphyrin. *Chemical Communications*, **2016**, 52, 8138-41	5.8	56
300	Ce-based metal-organic frameworks and DNAzyme-assisted recycling as dual signal amplifiers for sensitive electrochemical detection of lipopolysaccharide. *Biosensors and Bioelectronics*, **2016**, 83, 287-92	11.8	55
299	SnS Quantum Dots as New Emitters with Strong Electrochemiluminescence for Ultrasensitive Antibody Detection. *Analytical Chemistry*, **2018**, 90, 12270-12277	7.8	54
298	Highly sensitive electrochemiluminescenc assay of acetylcholinesterase activity based on dual biomarkers using Pd-Au nanowires as immobilization platform. *Biosensors and Bioelectronics*, **2016**, 79, 34-40	11.8	53
297	A highly sensitive electrochemiluminescence biosensor for the detection of organophosphate pesticides based on cyclodextrin functionalized graphitic carbon nitride and enzyme inhibition. *Chemical Communications*, **2016**, 52, 5049-52	5.8	53
296	In Situ Electrodeposited Synthesis of Electrochemiluminescent Ag Nanoclusters as Signal Probe for Ultrasensitive Detection of Cyclin-D1 from Cancer Cells. *Analytical Chemistry*, **2017**, 89, 6787-6793	7.8	52
295	Dual microRNAs-Fueled DNA Nanogears: A Case of Regenerated Strategy for Multiple Electrochemiluminescence Detection of microRNAs with Single Luminophore. *Analytical Chemistry*, **2017**, 89, 1338-1345	7.8	52

294	Toehold strand displacement-driven assembly of G-quadruplex DNA for enzyme-free and non-label sensitive fluorescent detection of thrombin. *Biosensors and Bioelectronics*, **2015**, 64, 306-10	11.8	52
293	Hollow Porous Polymeric Nanospheres of a Self-Enhanced Ruthenium Complex with Improved Electrochemiluminescent Efficiency for Ultrasensitive Aptasensor Construction. *Analytical Chemistry*, **2017**, 89, 9232-9238	7.8	52
292	A Novel Nonenzymatic Hydrogen Peroxide Sensor Based on a Polypyrrole Nanowire-Copper Nanocomposite Modified Gold Electrode. *Sensors*, **2008**, 8, 5141-5152	3.8	52
291	Self-Enhanced Ultrasensitive Photoelectrochemical Biosensor Based on Nanocapsule Packaging Both Donor-Acceptor-Type Photoactive Material and Its Sensitizer. *Analytical Chemistry*, **2016**, 88, 8698-705	7.8	52
290	Dual amplified and ultrasensitive electrochemical detection of mutant DNA Biomarkers based on nuclease-assisted target recycling and rolling circle amplifications. *Biosensors and Bioelectronics*, **2014**, 55, 266-71	11.8	51
289	PtNPs as Scaffolds to Regulate Interenzyme Distance for Construction of Efficient Enzyme Cascade Amplification for Ultrasensitive Electrochemical Detection of MMP-2. *Analytical Chemistry*, **2017**, 89, 9383-9387	7.8	50
288	Target-catalyzed hairpin assembly and intramolecular/intermolecular co-reaction for signal amplified electrochemiluminescent detection of microRNA. *Biosensors and Bioelectronics*, **2016**, 77, 442-50	11.8	49
287	Tracing Phosphate Ions Generated during Loop-Mediated Isothermal Amplification for Electrochemical Detection of Nosema bombycis Genomic DNA PTP1. *Analytical Chemistry*, **2015**, 87, 10268-74	7.8	49
286	Non-enzymatic hydrogen peroxide amperometric sensor based on a glassy carbon electrode modified with an MWCNT/polyaniline composite film and platinum nanoparticles. *Mikrochimica Acta*, **2012**, 176, 389-395	5.8	49
285	Ultrasensitive Cytosensor Based on Self-Enhanced Electrochemiluminescent Ruthenium-Silica Composite Nanoparticles for Efficient Drug Screening with Cell Apoptosis Monitoring. *Analytical Chemistry*, **2015**, 87, 12363-71	7.8	48
284	A microRNA-activated molecular machine for non-enzymatic target recycling amplification detection of microRNA from cancer cells. *Chemical Communications*, **2015**, 51, 11084-7	5.8	48
283	In situ formation of flower-like CuCo2S4 nanosheets/graphene composites with enhanced lithium storage properties. *RSC Advances*, **2016**, 6, 38321-38327	3.7	48
282	Enzyme-free Target Recycling and Double-Output Amplification System for Electrochemiluminescent Assay of Mucin 1 with MoS Nanoflowers as Co-reaction Accelerator. *ACS Applied Materials & Interfaces*, **2018**, 10, 14483-14490	9.5	46
281	Dynamical Regulation of Enzyme Cascade Amplification by a Regenerated DNA Nanotweezer for Ultrasensitive Electrochemical DNA Detection. *Analytical Chemistry*, **2018**, 90, 10701-10706	7.8	46
280	Electrochemiluminescence recovery-based aptasensor for sensitive Ochratoxin A detection via exonuclease-catalyzed target recycling amplification. *Talanta*, **2014**, 125, 45-50	6.2	46
279	Ultrasensitive electrochemiluminescent aptasensor for ochratoxin A detection with the loop-mediated isothermal amplification. *Analytica Chimica Acta*, **2014**, 811, 70-5	6.6	46
278	One DNA circle capture probe with multiple target recognition domains for simultaneous electrochemical detection of miRNA-21 and miRNA-155. *Biosensors and Bioelectronics*, **2020**, 149, 111848	11.8	46
277	Simultaneous determination of dopamine, ascorbic acid and uric acid using a multi-walled carbon nanotube and reduced graphene oxide hybrid functionalized by PAMAM and Au nanoparticles. *Analytical Methods*, **2015**, 7, 1471-1477	3.2	44

276	Hemin as electrochemically regenerable co-reaction accelerator for construction of an ultrasensitive PTCA-based electrochemiluminescent aptasensor. *Biosensors and Bioelectronics*, **2018**, 100, 490-496	11.8	44
275	An ultrasensitive electrochemiluminescence biosensor for detection of MicroRNA by in-situ electrochemically generated copper nanoclusters as luminophore and TiO as coreaction accelerator. *Biosensors and Bioelectronics*, **2018**, 114, 10-14	11.8	44
274	Gold nanoparticle□graphene nanohybrid bridged 3-amino-5-mercapto-1,2,4-triazole-functionalized multiwall carbon nanotubes for the simultaneous determination of hydroquinone, catechol, resorcinol and nitrite. *Analytical Methods*, **2013**, 5, 666-672	3.2	44
273	An electrochemical aptasensor for thrombin using synergetic catalysis of enzyme and porous Au@Pd core-shell nanostructures for signal amplification. *Biosensors and Bioelectronics*, **2015**, 64, 423-8	11.8	43
272	Quadratic recycling amplification for label-free and sensitive visual detection of HIV DNA. *Biosensors and Bioelectronics*, **2014**, 55, 220-4	11.8	43
271	Amplified amperometric aptasensor for selective detection of protein using catalase-functional DNA-PtNPs dendrimer as a synergetic signal amplification label. *Biosensors and Bioelectronics*, **2014**, 60, 224-30	11.8	43
270	Electrochemical immunosensor for detecting the spore wall protein of Nosema bombycis based on the amplification of hemin/G-quadruplex DNAzyme concatamers functionalized Pt@Pd nanowires. *Biosensors and Bioelectronics*, **2014**, 60, 118-23	11.8	43
269	An ultrasensitive electrochemiluminescence immunosensor for NT-proBNP based on self-catalyzed luminescence emitter coupled with PdCu@carbon nanohorn hybrid. *Biosensors and Bioelectronics*, **2017**, 87, 779-785	11.8	43
268	Perylene Derivative/Luminol Nanocomposite as a Strong Electrochemiluminescence Emitter for Construction of an Ultrasensitive MicroRNA Biosensor. *Analytical Chemistry*, **2019**, 91, 1516-1523	7.8	43
267	A Highly Sensitive Photoelectrochemical Assay with Donor-Acceptor-Type Material as Photoactive Material and Polyaniline as Signal Enhancer. *Analytical Chemistry*, **2018**, 90, 6096-6101	7.8	42
266	An electrochemiluminescence immunosensor for thyroid stimulating hormone based on polyamidoamine-norfloxacin functionalized Pd-Au core-shell hexoctahedrons as signal enhancers. *Biosensors and Bioelectronics*, **2015**, 71, 164-170	11.8	41
265	Simultaneous determination of hydroquinone, catechol, resorcinol and nitrite using gold nanoparticles loaded on poly-3-amino-5-mercapto-1,2,4-triazole-MWNTs film modified electrode. *Analytical Methods*, **2012**, 4, 1626	3.2	41
264	A new hybrid signal amplification strategy for ultrasensitive electrochemical detection of DNA based on enzyme-assisted target recycling and DNA supersandwich assemblies. *Chemical Communications*, **2013**, 49, 2052-4	5.8	41
263	Sensitive Electrochemiluminescence Immunosensor for Detection of N-Acetyl-□-d-glucosaminidase Based on a "Light-Switch" Molecule Combined with DNA Dendrimer. *Analytical Chemistry*, **2016**, 88, 5797-803	7.8	41
262	A sensitive electrochemiluminescent aptasensor based on perylene derivatives as a novel co-reaction accelerator for signal amplification. *Biosensors and Bioelectronics*, **2016**, 85, 8-15	11.8	41
261	Electrochemiluminescence Enhanced by Restriction of Intramolecular Motions (RIM): Tetraphenylethylene Microcrystals as a Novel Emitter for Mucin 1 Detection. *Analytical Chemistry*, **2019**, 91, 3710-3716	7.8	40
260	Programmable Modulation of Copper Nanoclusters Electrochemiluminescence via DNA Nanocranes for Ultrasensitive Detection of microRNA. *Analytical Chemistry*, **2018**, 90, 3543-3549	7.8	40
259	Electrochemiluminescence of Supramolecular Nanorods and Their Application in the "On-Off-On" Detection of Copper Ions. *Chemistry - A European Journal*, **2016**, 22, 8207-14	4.8	40

258	Electrochemiluminescence immunosensor based on multifunctional luminol-capped AuNPs@Fe3O4 nanocomposite for the detection of mucin-1. *Biosensors and Bioelectronics*, **2015**, 71, 407-413	11.8	39
257	A sensitive electrochemiluminescence immunosensor based on luminophore capped Pd@Au core-shell nanoparticles as signal tracers and ferrocenyl compounds as signal enhancers. *Biosensors and Bioelectronics*, **2016**, 81, 334-340	11.8	39
256	An enzyme-free electrochemical biosensor combining target recycling with FeO/CeO@Au nanocatalysts for microRNA-21 detection. *Biosensors and Bioelectronics*, **2018**, 119, 170-175	11.8	39
255	Ultrasensitive Electrochemiluminescence Biosensing Platform for Detection of Multiple Types of Biomarkers toward Identical Cancer on a Single Interface. *Analytical Chemistry*, **2017**, 89, 12821-12827	7.8	39
254	Amplified thrombin aptasensor based on alkaline phosphatase and hemin/G-quadruplex-catalyzed oxidation of 1-naphthol. *ACS Applied Materials & Interfaces*, **2015**, 7, 10308-15	9.5	39
253	Anodic Electrochemiluminescence of Carbon Dots Promoted by Nitrogen Doping and Application to Rapid Cancer Cell Detection. *Analytical Chemistry*, **2020**, 92, 1379-1385	7.8	39
252	p-n-Sensitized Heterostructure CoO/Fullerene with Highly Efficient Photoelectrochemical Performance for Ultrasensitive DNA Detection. *ACS Applied Materials & Interfaces*, **2019**, 11, 23765-23772	9.5	38
251	An ultrasensitive electrochemiluminescence biosensor for MicroRNA detection based on luminol-functionalized Au NPs@ZnO nanomaterials as signal probe and dissolved O as coreactant. *Biosensors and Bioelectronics*, **2019**, 135, 8-13	11.8	38
250	A self-enhanced electrochemiluminescence immunosensor based on L-Lys-Ru(dcbpy)3(2+) functionalized porous six arrises column nanorods for detection of CA15-3. *Biosensors and Bioelectronics*, **2015**, 74, 924-30	11.8	37
249	A label-free electrochemical aptasensor based on the catalysis of manganese porphyrins for detection of thrombin. *Biosensors and Bioelectronics*, **2015**, 66, 585-9	11.8	37
248	Novel electrochemiluminescence of perylene derivative and its application to mercury ion detection based on a dual amplification strategy. *Biosensors and Bioelectronics*, **2016**, 86, 720-727	11.8	37
247	Direct electrocatalytic reduction of hydrogen peroxide at a glassy carbon electrode modified with polypyrrole nanowires and platinum hollow nanospheres. *Mikrochimica Acta*, **2010**, 171, 125-131	5.8	37
246	Wavelength-resolved simultaneous photoelectrochemical bifunctional sensor on single interface: A newly in vitro approach for multiplexed DNA monitoring in cancer cells. *Biosensors and Bioelectronics*, **2016**, 81, 423-430	11.8	37
245	Thrombin aptasensor enabled by Pt nanoparticles-functionalized Co-based metal organic frameworks assisted electrochemical signal amplification. *Talanta*, **2017**, 169, 44-49	6.2	36
244	Novel Ru(bpy)(cpaphen)/TPrA/TiO Ternary ECL System: An Efficient Platform for the Detection of Glutathione with Mn as Substitute Target. *Analytical Chemistry*, **2019**, 91, 3681-3686	7.8	36
243	Sandwiched Electrochemiluminescent Peptide Biosensor for the Detection of Prognostic Indicator in Early-Stage Cancer Based on Hollow, Magnetic, and Self-Enhanced Nanosheets. *Small*, **2015**, 11, 3703-9	11	36
242	A restriction enzyme-powered autonomous DNA walking machine: its application for a highly sensitive electrochemiluminescence assay of DNA. *Nanoscale*, **2015**, 7, 981-6	7.7	36
241	Highly effective molecule converting strategy based on enzyme-free dual recycling amplification for ultrasensitive electrochemical detection of ATP. *Chemical Communications*, **2017**, 53, 8368-8371	5.8	36

240	Nonenzymatic glucose sensor based on a glassy carbon electrode modified with chains of platinum hollow nanoparticles and porous gold nanoparticles in a chitosan membrane. *Mikrochimica Acta*, **2011**, 172, 163-169	5.8	36
239	Two (3,10)-Connected 2D Networks Based on Pentanuclear Metal Clusters as Building Blocks. *European Journal of Inorganic Chemistry*, **2008**, 2008, 2610-2615	2.3	36
238	Dendritic Silver/Silicon Dioxide Nanocomposite Modified Electrodes for Electrochemical Sensing of Hydrogen Peroxide. *Electroanalysis*, **2008**, 20, 1839-1844	3	36
237	Highly Effective Protein Converting Strategy for Ultrasensitive Electrochemical Assay of Cystatin C. *Analytical Chemistry*, **2016**, 88, 5189-96	7.8	36
236	Highly Efficient Intramolecular Electrochemiluminescence Energy Transfer for Ultrasensitive Bioanalysis of Aflatoxin M1. *Chemistry - A European Journal*, **2017**, 23, 1853-1859	4.8	35
235	Ultrasensitive Electrochemiluminescence Biosensor for Speedy Detection of microRNA Based on a DNA Rolling Machine and Target Recycling. *Analytical Chemistry*, **2019**, 91, 4883-4888	7.8	35
234	A novel solid-state Ru(bpy)3(2+) electrochemiluminescence immunosensor based on poly(ethylenimine) and polyamidoamine dendrimers as co-reactants. *Talanta*, **2015**, 131, 192-7	6.2	35
233	Hydrogen peroxide sensor based on horseradish peroxidase immobilized on an electrode modified with DNA-L-cysteine-gold-platinum nanoparticles in polypyrrole film. *Mikrochimica Acta*, **2009**, 167, 159-165	5.8	35
232	A Reagentless Amperometric Immunosensor for Alpha-Fetoprotein Based on Gold Nanoparticles/TiO2 Colloids/Prussian Blue Modified Platinum Electrode. *Electroanalysis*, **2007**, 19, 1402-1410	3	35
231	Electron-Transfer Mediator Microbiosensor Fabrication Based on Immobilizing HRP-Labeled Au Colloids on Gold Electrode Surface by 11-Mercaptoundecanoic Acid Monolayer. *Electroanalysis*, **2006**, 18, 259-266	3	35
230	Stimuli-Responsive DNA Microcapsules for SERS Sensing of Trace MicroRNA. *ACS Applied Materials & Interfaces*, **2018**, 10, 12491-12496	9.5	34
229	Sensitive pseudobienzyme electrocatalytic DNA biosensor for mercury(II) ion by using the autonomously assembled hemin/G-quadruplex DNAzyme nanowires for signal amplification. *Analytica Chimica Acta*, **2014**, 811, 23-8	6.6	34
228	A cathodic electrogenerated chemiluminescence biosensor based on luminol and hemin-graphene nanosheets for cholesterol detection. *RSC Advances*, **2012**, 2, 4639	3.7	34
227	Ultrasensitive Photoelectrochemical Detection of Multiple Metal Ions Based on Wavelength-Resolved Dual-Signal Output Triggered by Click Reaction. *Analytical Chemistry*, **2019**, 91, 2861-2868	7.8	33
226	Three-Dimensional Cadmium Telluride Quantum Dots-DNA Nanoreticulation as a Highly Efficient Electrochemiluminescent Emitter for Ultrasensitive Detection of MicroRNA from Cancer Cells. *Analytical Chemistry*, **2019**, 91, 7765-7773	7.8	33
225	DNA Enzyme-Decorated DNA Nanoladders as Enhancer for Peptide Cleavage-Based Electrochemical Biosensor. *ACS Applied Materials & Interfaces*, **2016**, 8, 22869-74	9.5	33
224	Enzyme-assisted cycling amplification and DNA-templated in-situ deposition of silver nanoparticles for the sensitive electrochemical detection of Hg(2.). *Biosensors and Bioelectronics*, **2016**, 86, 630-635	11.8	33
223	An efficient target-intermediate recycling amplification strategy for ultrasensitive fluorescence assay of intracellular lead ions. *Chemical Communications*, **2017**, 53, 7525-7528	5.8	32

222	Self-enhanced N-(aminobutyl)-N-(ethylisoluminol) derivative-based electrochemiluminescence immunosensor for sensitive laminin detection using PdIr cubes as a mimic peroxidase. *Nanoscale*, **2016**, 8, 8017-23	7.7	32
221	A label-free electrochemical biosensor for microRNA detection based on catalytic hairpin assembly and in situ formation of molybdophosphate. *Talanta*, **2017**, 163, 65-71	6.2	32
220	Coupling of a Reagentless Electrochemical DNA Biosensor with Conducting Polymer Film and Nanocomposite as Matrices for the Detection of the HIV DNA Sequences. *Analytical Letters*, **2006**, 39, 467-482	2.2	32
219	A Janus 3D DNA nanomachine for simultaneous and sensitive fluorescence detection and imaging of dual microRNAs in cancer cells. *Chemical Science*, **2020**, 11, 8482-8488	9.4	32
218	N-(aminobutyl)-N-(ethylisoluminol) functionalized Fe-based metal-organic frameworks with intrinsic mimic peroxidase activity for sensitive electrochemiluminescence mucin1 determination. *Biosensors and Bioelectronics*, **2018**, 121, 250-256	11.8	32
217	Programming a Target-Initiated Bifunctional DNAzyme Nanodevice for Sensitive Ratiometric Electrochemical Biosensing. *Analytical Chemistry*, **2019**, 91, 6127-6133	7.8	31
216	Self-enhanced electrochemiluminescence immunosensor based on nanowires obtained by a green approach. *Biosensors and Bioelectronics*, **2015**, 68, 72-77	11.8	31
215	Highly Sensitive Photoelectrochemical Biosensor Based on Quantum Dots Sensitizing BiTe Nanosheets and DNA-Amplifying Strategies. *ACS Applied Materials & Interfaces*, **2020**, 12, 22624-22629	9.5	31
214	Homogeneous Entropy Catalytic-Driven DNA Hydrogel as Strong Signal Blocker for Highly Sensitive Electrochemical Detection of Platelet-Derived Growth Factor. *Analytical Chemistry*, **2018**, 90, 8241-8247	7.8	31
213	A photoelectrochemical biosensor based on fullerene with methylene blue as a sensitizer for ultrasensitive DNA detection. *Biosensors and Bioelectronics*, **2019**, 142, 111579	11.8	31
212	Precise Regulation of Enzyme Cascade Catalytic Efficiency with DNA Tetrahedron as Scaffold for Ultrasensitive Electrochemical Detection of DNA. *Analytical Chemistry*, **2019**, 91, 3561-3566	7.8	31
211	In Situ Formation of Multifunctional DNA Nanospheres for a Sensitive and Accurate Dual-Mode Biosensor for Photoelectrochemical and Electrochemical Assay. *Analytical Chemistry*, **2020**, 92, 8364-8370	7.8	30
210	Electrochemical synthesis of silver nanoclusters on electrochemiluminescent resonance energy transfer amplification platform for Apo-A1 detection. *Talanta*, **2018**, 181, 32-37	6.2	30
209	Sensitive electrochemiluminescent immunosensor for diabetic nephropathy analysis based on tris(bipyridine) ruthenium(II) derivative with binary intramolecular self-catalyzed property. *Biosensors and Bioelectronics*, **2018**, 100, 35-40	11.8	30
208	Target-Induced 3D DNA Network Structure as a Novel Signal Amplifier for Ultrasensitive Electrochemiluminescence Detection of MicroRNAs. *Analytical Chemistry*, **2019**, 91, 14368-14374	7.8	30
207	A novel strategy for synthesis of hollow gold nanosphere and its application in electrogenerated chemiluminescence glucose biosensor. *Talanta*, **2014**, 128, 9-14	6.2	30
206	A pseudo triple-enzyme cascade amplified aptasensor for thrombin detection based on hemin/G-quadruplex as signal label. *Biosensors and Bioelectronics*, **2014**, 54, 415-20	11.8	30
205	Multiparameter Analysis-Based Electrochemiluminescent Assay for Simultaneous Detection of Multiple Biomarker Proteins on a Single Interface. *Analytical Chemistry*, **2016**, 88, 4940-8	7.8	30

204	TiC/BiVO Schottky junction as a signal indicator for ultrasensitive photoelectrochemical detection of VEGF. *Chemical Communications*, **2019**, 55, 13729-13732	5.8	30
203	Ultrasensitive Fluorescent Assay Based on a Rolling-Circle-Amplification-Assisted Multisite-Strand-Displacement-Reaction Signal-Amplification Strategy. *Analytical Chemistry*, **2018**, 90, 7474-7479	7.8	30
202	Reversible and Distance-Controllable DNA Scissor: A Regenerated Electrochemiluminescence Biosensing Platform for Ultrasensitive Detection of MicroRNA. *Analytical Chemistry*, **2019**, 91, 3239-3245	7.8	29
201	Highly efficient electrogenerated chemiluminescence quenching of PEI enhanced Ru(bpy)□+ nanocomposite by hemin and Au@CeO□nanoparticles. *Biosensors and Bioelectronics*, **2015**, 63, 392-398	11.8	29
200	Highly Efficient Target Recycling-Based Netlike Y-DNA for Regulation of Electrocatalysis toward Methylene Blue for Sensitive DNA Detection. *ACS Applied Materials & Interfaces*, **2018**, 10, 25213-25218	9.5	29
199	Ultrasensitive Photoelectrochemical Assay for DNA Detection Based on a Novel SnS/CoO Sensitized Structure. *Analytical Chemistry*, **2020**, 92, 14769-14774	7.8	29
198	CdTe QD-CeO Complex as a Strong Photoelectrochemical Signal Indicator for the Ultrasensitive microRNA Assay. *ACS Applied Materials & Interfaces*, **2019**, 11, 11834-11840	9.5	28
197	High-Efficiency CNNS@NH-MIL(Fe) Electrochemiluminescence Emitters Coupled with TiC Nanosheets as a Matrix for a Highly Sensitive Cardiac Troponin I Assay. *Analytical Chemistry*, **2020**, 92, 8992-9000	7.8	28
196	An ultrasensitive photoelectrochemical biosensor based on [Ru(dcbpy)dppz]/Rose Bengal dyes co-sensitized fullerene for DNA detection. *Biosensors and Bioelectronics*, **2018**, 120, 71-76	11.8	28
195	In situ generation of electrochemiluminescent DNA nanoflowers as a signal tag for mucin 1 detection based on a strategy of target and mimic target synchronous cycling amplification. *Chemical Communications*, **2017**, 53, 9624-9627	5.8	28
194	In Situ Controllable Generation of Copper Nanoclusters Confined in a Poly-l-Cysteine Porous Film with Enhanced Electrochemiluminescence for Alkaline Phosphatase Detection. *Analytical Chemistry* , **2020**, 92, 13581-13587	7.8	28
193	Construction of a Z-scheme g-CN/Ag/AgI heterojunction for highly selective photoelectrochemical detection of hydrogen sulfide. *Chemical Communications*, **2019**, 55, 11940-11943	5.8	27
192	An amplified electrochemiluminescent aptasensor using Au nanoparticles capped by 3,4,9,10-perylene tetracarboxylic acid-thiosemicarbazide functionalized C60 nanocomposites as a signal enhancement tag. *Nanoscale*, **2015**, 7, 2085-92	7.7	27
191	Simply Constructed and Highly Efficient Classified Cargo-Discharge DNA Robot: A DNA Walking Nanomachine Platform for Ultrasensitive Multiplexed Sensing. *Analytical Chemistry*, **2019**, 91, 8123-8128	7.8	26
190	Triple Quenching of a Novel Self-Enhanced Ru(II) Complex by Hemin/G-Quadruplex DNAzymes and Its Potential Application to Quantitative Protein Detection. *Analytical Chemistry*, **2015**, 87, 7602-9	7.8	26
189	Biomimetic 3D DNA Nanomachine via Free DNA Walker Movement on Lipid Bilayers Supported by Hard SiO@CdTe Nanoparticles for Ultrasensitive MicroRNA Detection. *Analytical Chemistry*, **2019**, 91, 14920-14926	7.8	26
188	Ultrasensitive electrochemiluminescent detection of cardiac troponin I based on a self-enhanced Ru(II) complex. *Talanta*, **2014**, 129, 219-26	6.2	26
187	Target recycling amplification for label-free and sensitive colorimetric detection of adenosine triphosphate based on un-modified aptamers and DNAzymes. *Analytica Chimica Acta*, **2014**, 828, 80-4	6.6	26

186	Electrochemiluminescence biosensing based on different modes of switching signals. *Analyst, The*, **2018**, 143, 3230-3248	5	26
185	High-Sensitive Electrochemiluminescence C-Peptide Biosensor via the Double Quenching of Dopamine to the Novel Ru(II)-Organic Complex with Dual Intramolecular Self-Catalysis. *Analytical Chemistry*, **2017**, 89, 11076-11082	7.8	25
184	A robust, magnetic, and self-accelerated electrochemiluminescent nanosensor for ultrasensitive detection of copper ion. *Biosensors and Bioelectronics*, **2018**, 109, 109-115	11.8	25
183	Self-accelerated electrochemiluminescence emitters of Ag@SnO2 nanoflowers for sensitive detection of cardiac troponin T. *Electrochimica Acta*, **2018**, 271, 464-471	6.7	25
182	L-cysteine induced hemin/G-quadruplex concatemers electrocatalytic amplification with Pt-Pd supported on fullerene as a nanocarrier for sensing the spore wall protein of Nosema bombycis. *Chemical Communications*, **2015**, 51, 1255-8	5.8	24
181	A nanohybrid of platinum nanoparticles-porous ZnO-hemin with electrocatalytic activity to construct an amplified immunosensor for detection of influenza. *Biosensors and Bioelectronics*, **2016**, 78, 321-327	11.8	24
180	Amplified electrochemiluminescent aptasensor using mimicking bi-enzyme nanocomplexes as signal enhancement. *Analytica Chimica Acta*, **2014**, 809, 47-53	6.6	24
179	Deposited gold nanocrystals enhanced porous PTCA□ys layer for simultaneous detection of ascorbic acid, dopamine and uric acid. *Sensors and Actuators B: Chemical*, **2013**, 183, 157-162	8.5	24
178	Amplified impedimetric aptasensor combining target-induced DNA hydrogel formation with pH-stimulated signal amplification for the heparanase assay. *Nanoscale*, **2017**, 9, 2556-2562	7.7	23
177	A novel electrochemical aptasensor for highly sensitive detection of thrombin based on the autonomous assembly of hemin/G-quadruplex horseradish peroxidase-mimicking DNAzyme nanowires. *Analytica Chimica Acta*, **2014**, 832, 51-7	6.6	23
176	Study on an immunosensor based on gold nanoparticles and a nano-calcium carbonate/Prussian blue modified glassy carbon electrode. *Mikrochimica Acta*, **2009**, 165, 53-58	5.8	23
175	Competitive method-based electrochemiluminescent assay with protein-nucleotide conversion for ratio detection to efficiently monitor the drug resistance of cancer cells. *Chemical Science*, **2016**, 7, 7094-7100	9.4	23
174	Covalent organic frameworks as micro-reactors: confinement-enhanced electrochemiluminescence. *Chemical Science*, **2020**, 11, 5410-5414	9.4	22
173	An amplified electrochemical proximity immunoassay for the total protein of Nosema bombycis based on the catalytic activity of Fe3O4NPs towards methylene blue. *Biosensors and Bioelectronics*, **2016**, 81, 382-387	11.8	22
172	Host-Guest Recognition-Assisted Electrochemical Release: Its Reusable Sensing Application Based on DNA Cross Configuration-Fueled Target Cycling and Strand Displacement Reaction Amplification. *Analytical Chemistry*, **2017**, 89, 8266-8272	7.8	22
171	A Dynamic DNA Machine via Free Walker Movement on Lipid Bilayer for Ultrasensitive Electrochemiluminescent Bioassay. *Analytical Chemistry*, **2019**, 91, 14125-14132	7.8	21
170	High throughput immunosenor based on multi-label strategy and a novel array electrode. *Scientific Reports*, **2014**, 4, 4747	4.9	21
169	Functionalized graphene oxide-based carbon paste electrode for potentiometric detection of copper ion(II). *Analytical Methods*, **2012**, 4, 3332	3.2	21

168	3,4,9,10-perylenetetracarboxylic acid/hemin nanocomposites act as redox probes and electrocatalysts for constructing a pseudobienzyme-channeling amplified electrochemical aptasensor. *Chemistry - A European Journal*, **2012**, 18, 14186-91	4.8	21
167	Electrocatalytic Efficiency Regulation between Target-Induced HRP-Mimicking DNAzyme and GOx with Low Background for Ultrasensitive Detection of Thrombin. *Analytical Chemistry*, **2019**, 91, 10289-10294	7.8	20
166	A novel fluorescent assay for the ultrasensitive detection of miRNA-21 with the use of G-quadruplex structures as an immobilization material for a signal indicator. *Chemical Communications*, **2019**, 55, 6453-6456	5.8	20
165	Highly Efficient Dual-Polar Electrochemiluminescence from Au Nanoclusters: The Next Generation of Multibiomarker Detection in a Single Step. *Analytical Chemistry*, **2019**, 91, 14618-14623	7.8	20
164	A pseudo triple-enzyme electrochemical aptasensor based on the amplification of Pt-Pd nanowires and hemin/G-quadruplex. *Analytica Chimica Acta*, **2014**, 834, 45-50	6.6	20
163	A Solid-State Electrochemiluminescence Immunosensor Based on MWCNTs-Nafion and Ru(bpy)32+/Nano-Pt Nanocomposites for Detection of □Fetoprotein. *Electroanalysis*, **2011**, 23, 1418-1426	?	20
162	Synthesis and application of a new copper(II) complex containing oflx and leof. *Russian Journal of Inorganic Chemistry*, **2008**, 53, 704-706	1.5	20
161	An Affinity-Enhanced DNA Intercalator with Intense ECL Embedded in DNA Hydrogel for Biosensing Applications. *Analytical Chemistry*, **2020**, 92, 11044-11052	7.8	20
160	Application of Antibody-Powered Triplex-DNA Nanomachine to Electrochemiluminescence Biosensor for the Detection of Anti-Digoxigenin with Improved Sensitivity Versus Cycling Strand Displacement Reaction. *ACS Applied Materials & Interfaces*, **2018**, 10, 38648-38655	9.5	20
159	Dual triggers induced disassembly of DNA polymer decorated silver nanoparticle for ultrasensitive electrochemical Pb detection. *Analytica Chimica Acta*, **2018**, 1034, 56-62	6.6	20
158	l-cysteine induced manganese porphyrin electrocatalytic amplification with 3D DNA-Au@Pt nanoparticles as nanocarriers for sensitive electrochemical aptasensor. *Biosensors and Bioelectronics*, **2016**, 79, 86-91	11.8	19
157	Sensing glucose based on its affinity for concanavalin A on a glassy carbon electrode modified with a C60 fullerene nanocomposite. *Mikrochimica Acta*, **2015**, 182, 2215-2221	5.8	19
156	The Ru complex and hollow gold nanoparticles branched-hydrogel as signal probe for construction of electrochemiluminescent aptasensor. *Biosensors and Bioelectronics*, **2016**, 77, 7-12	11.8	19
155	An ultrasensitive electrochemiluminescence biosensor for multiple detection of microRNAs based on a novel dual circuit catalyzed hairpin assembly. *Chemical Communications*, **2018**, 54, 10148-10151	5.8	19
154	BSA stabilized tetraphenylethylene nanocrystals as aggregation-induced enhanced electrochemiluminescence emitters for ultrasensitive microRNA assay. *Chemical Communications*, **2019**, 55, 9959-9962	5.8	19
153	Determination of carcinoembryonic antigen using a novel amperometric enzyme-electrode based on layer-by-layer assembly of gold nanoparticles and thionine. *Science in China Series B: Chemistry*, **2007**, 50, 97-104		19
152	Programmable mismatch-fueled high-efficiency DNA signal converter. *Chemical Science*, **2020**, 11, 148-153	9.4	19
151	Novel Single-Enzyme-Assisted Dual Recycle Amplification Strategy for Sensitive Photoelectrochemical MicroRNA Assay. *Analytical Chemistry*, **2020**, 92, 14550-14557	7.8	19

150	Ultrasensitive Photoelectrochemical Assay with PTB7-Th/CdTe Quantum Dots Sensitized Structure as Signal Tag and Benzo-4-chlorohexadienone Precipitate as Efficient Quencher. *Analytical Chemistry*, **2018**, 90, 14521-14526	7.8	19
149	Efficient Electrochemical Self-Catalytic Platform Based on l-Cys-hemin/G-quadruplex and Its Application for Bioassay. *Analytical Chemistry*, **2018**, 90, 9109-9116	7.8	19
148	Intramolecular Self-Enhanced Nanochains Functionalized by an Electrochemiluminescence Reagent and Its Immunosensing Application for the Detection of Urinary □2-Microglobulin. *ACS Applied Materials & Interfaces*, **2017**, 9, 36239-36246	9.5	18
147	Horseradish peroxidase-loaded nanospheres attached to hollow gold nanoparticles as signal enhancers in an ultrasensitive immunoassay for alpha-fetoprotein. *Mikrochimica Acta*, **2014**, 181, 679-685	5.8	18
146	Amperometric biosensor for nitrite and hydrogen peroxide based on hemoglobin immobilized on gold nanoparticles/polythionine/platinum nanoparticles modified glassy carbon electrode. *Journal of Chemical Technology and Biotechnology*, **2012**, 87, 570-574	3.5	18
145	Ultrasensitive electrochemical immunosensors for clinical immunoassay using gold nanoparticle coated multi-walled carbon nanotubes as labels and horseradish peroxidase as an enhancer. *Analytical Methods*, **2013**, 5, 5279	3.2	18
144	A Peptide Cleavage-Based Ultrasensitive Electrochemical Biosensor with an Ingenious Two-Stage DNA Template for Highly Efficient DNA Exponential Amplification. *Analytical Chemistry*, **2017**, 89, 8951-8956	7.8	18
143	Ultrasensitive amperometric immunosensor for the determination of carcinoembryonic antigen based on a porous chitosan and gold nanoparticles functionalized interface. *Mikrochimica Acta*, **2009**, 167, 217-224	5.8	18
142	A novel immunosensor for carcinoembryonic antigen based on poly(diallyldimethylammonium chloride) protected prussian blue nanoparticles and double-layer nanometer-sized gold particles. *Mikrochimica Acta*, **2010**, 171, 297-304	5.8	18
141	Amperometric Immunosensor for the Determination of □1-Fetoprotein Based on Core-Shell-Shell Prussian Blue-BSA-Nanogold Functionalized Interface. *Electroanalysis*, **2008**, 20, 2185-2191	3	18
140	The combination of ternary electrochemiluminescence system of g-CN nanosheet/TEA/Cu@CuO and G-quadruplex-driven regeneration strategy for ultrasensitive bioanalysis. *Biosensors and Bioelectronics*, **2020**, 152, 112006	11.8	18
139	Electrochemical Biosensor for Organophosphate Pesticides and Huperzine-A Detection Based on Pd Wormlike Nanochains/Graphitic Carbon Nitride Nanocomposites and Acetylcholinesterase. *Electroanalysis*, **2016**, 28, 304-311	3	18
138	Electrochemiluminescent Pb-Driven Circular Etching Sensor Coupled to a DNA Micronet-Carrier. *ACS Applied Materials & Interfaces*, **2017**, 9, 39812-39820	9.5	17
137	Click chemistry-mediated catalytic hairpin self-assembly for amplified and sensitive fluorescence detection of Cu(2+) in human serum. *Chemical Communications*, **2015**, 51, 12637-40	5.8	17
136	A biosensor based on a 3D-DNA walking machine network and distance-controlled electrochemiluminescence energy transfer for ultrasensitive detection of tenascin C and lead ions. *Chemical Communications*, **2018**, 54, 8741-8744	5.8	17
135	A zirconium-based metal-organic framework sensitized by thioflavin-T for sensitive photoelectrochemical detection of C-reactive protein. *Chemical Communications*, **2019**, 55, 10772-10775	5.8	17
134	A novel electrochemiluminescence aptasensor based on in situ generated proline and matrix polyamidoamine dendrimers as coreactants for signal amplication. *Biosensors and Bioelectronics*, **2014**, 55, 313-7	11.8	17
133	Ag/TiO2 nanocomposites as a novel SERS substrate for construction of sensitive biosensor. *Sensors and Actuators B: Chemical*, **2021**, 339, 129843	8.5	17

132	Highly sensitive electrochemiluminescence immunosensor based on ABEI/HO system with PFO dots as enhancer for detection of kidney injury molecule-1. *Biosensors and Bioelectronics*, **2018**, 116, 16-22	11.8	17
131	Novel D-A-D-Type Supramolecular Aggregates with High Photoelectric Activity for Construction of Ultrasensitive Photoelectrochemical Biosensor. *Analytical Chemistry*, **2019**, 91, 12468-12475	7.8	16
130	A highly sensitive photoelectrochemical VEGF biosensor with a dual signal amplification strategy by using AgVO as a photoactive material. *Chemical Communications*, **2019**, 55, 8076-8078	5.8	16
129	A novel ECL biosensor for β-lactamase detection: Using RU(II) linked-ampicillin complex as the recognition element. *Biosensors and Bioelectronics*, **2015**, 70, 221-5	11.8	16
128	Highly sensitive electrochemical assay for Nosema bombycis gene DNA PTP1 via conformational switch of DNA nanostructures regulated by H from LAMP. *Biosensors and Bioelectronics*, **2018**, 106, 186-192	11.8	16
127	A signal-on electrochemiluminescence aptasensor based on the quenching effect of manganese dioxide for sensitive detection of carcinoembryonic antigen. *RSC Advances*, **2014**, 4, 56756-56761	3.7	16
126	Potentiometric Immunosensor Based on Immobilization of Hepatitis B Surface Antibody on Platinum Electrode Modified Silver Colloids and Polyvinyl Butyral as Matrixes. *Electroanalysis*, **2005**, 17, 155-161	3	16
125	A nitrite and hydrogen peroxide sensor based on Hb adsorbed on Au nanorods and graphene oxide coated by polydopamine. *Analytical Methods*, **2014**, 6, 758-765	3.2	15
124	Simple construction of an enzymatic glucose biosensor based on a nanocomposite film prepared in one step from iron oxide, gold nanoparticles, and chitosan. *Mikrochimica Acta*, **2011**, 173, 369-374	5.8	15
123	Multilayer Assembly of Hemoglobin and Colloidal Gold Nanoparticles on Multiwall Carbon Nanotubes/Chitosan Composite for Detecting Hydrogen Peroxide. *Electroanalysis*, **2008**, 20, 2141-2147	3	15
122	Electrochemical Immunoanalysis for Carcinoembryonic Antigen Based on Multilayer Architectures of Gold Nanoparticles and Polycation Biomimetic Interface on Glassy Carbon Electrode. *Electroanalysis*, **2006**, 18, 2451-2457	3	15
121	Pore Confinement-Enhanced Electrochemiluminescence on SnO Nanocrystal Xerogel with NO As Co-Reactant and Its Application in Facile and Sensitive Bioanalysis. *Analytical Chemistry*, **2020**, 92, 2839-2846	7.8	15
120	A synergistic promotion strategy remarkably accelerated electrochemiluminescence of SnO QDs for MicroRNA detection using 3D DNA walker amplification. *Biosensors and Bioelectronics*, **2020**, 173, 112820	11.8	15
119	Highly-efficient luminol immobilization approach and exponential strand displacement reaction based electrochemiluminescent strategy for monitoring microRNA expression in cell. *Biosensors and Bioelectronics*, **2019**, 132, 62-67	11.8	14
118	Intercalation of quantum dots as the new signal acquisition and amplification platform for sensitive electrochemiluminescent detection of microRNA. *Analytica Chimica Acta*, **2015**, 891, 130-5	6.6	14
117	Polyacrylamide Gel-Contained Zinc Finger Peptide as the "Lock" and Zinc Ions as the "Key" for Construction of Ultrasensitive Prostate-Specific Antigen SERS Immunosensor. *ACS Applied Materials & Interfaces*, **2018**, 10, 15200-15206	9.5	14
116	Preparation of porous MoP-C microspheres without a hydrothermal process as a high capacity anode for lithium ion batteries. *Inorganic Chemistry Frontiers*, **2018**, 5, 1432-1437	6.8	14
115	Dual-Amplification of Antigen–Antibody Interactions via Backfilling Gold Nanoparticles on (3-Mercaptopropyl) Trimethoxysilane Sol-Gel Functionalized Interface. *Electroanalysis*, **2007**, 19, 479-486	3	14

114	3D Matrix-Arranged AuAg Nanoclusters As Electrochemiluminescence Emitters for Click Chemistry-Driven Signal Switch Bioanalysis. *Analytical Chemistry*, **2020**, 92, 2566-2572	7.8	14
113	A dynamic 3D DNA nanostructure based on silicon-supported lipid bilayers: a highly efficient DNA nanomachine for rapid and sensitive sensing. *Chemical Communications*, **2019**, 55, 13414-13417	5.8	14
112	A sensitive immunosensor via in situ enzymatically generating efficient quencher for electrochemiluminescence of iridium complexes doped SiO nanoparticles. *Biosensors and Bioelectronics*, **2017**, 94, 568-574	11.8	13
111	RNA-regulated molecular tweezers for sensitive fluorescent detection of microRNA from cancer cells. *Biosensors and Bioelectronics*, **2015**, 71, 98-102	11.8	13
110	Highly enhanced electrochemiluminescence based on pseudo triple-enzyme cascade catalysis and in situ generation of co-reactant for thrombin detection. *Analyst, The*, **2014**, 139, 1030-6	5	13
109	An efficient electrochemiluminescence amplification strategy via bis-co-reaction accelerator for sensitive detection of laminin to monitor overnutrition associated liver damage. *Biosensors and Bioelectronics*, **2017**, 98, 317-324	11.8	13
108	On-Off PVC Membrane Based Potentiometric Immunosensor for Label-Free Detection of Alpha-Fetoprotein. *Electroanalysis*, **2007**, 19, 1131-1138	3	13
107	A New Enzyme Immobilization Technique Based on Thionine-Bovine Serum Albumin Conjugate and Gold Colloidal Nanoparticles for Reagentless Amperometric Biosensor Applications. *Electroanalysis*, **2008**, 20, 418-425	3	13
106	Reagentless Immunosensing Assay via Electrochemical Impedance for Hepatitis B Surface Antigen Monitoring Based on Polypyrrole and Gold Nanoparticles as Matrices. *Chinese Journal of Chemistry*, **2006**, 24, 59-64	4.9	13
105	Organic Dots Embedded in Mesostructured Silica Xerogel as High-Performance ECL Emitters: Preparation and Application for MicroRNA-126 Detection. *ACS Applied Materials & Interfaces*, **2020**, 12, 3945-3952	9.5	13
104	Lattice-Like DNA Tetrahedron Nanostructure as Scaffold to Locate GOx and HRP Enzymes for Highly Efficient Enzyme Cascade Reaction. *ACS Applied Materials & Interfaces*, **2020**, 12, 2871-2877	9.5	13
103	Bipedal DNA walker mediated enzyme-free exponential isothermal signal amplification for rapid detection of microRNA. *Chemical Communications*, **2019**, 55, 13932-13935	5.8	13
102	Self-Assembly of Gold Nanoclusters into a Metal-Organic Framework with Efficient Electrochemiluminescence and Their Application for Sensitive Detection of Rutin. *Analytical Chemistry*, **2021**, 93, 3445-3451	7.8	13
101	Label-free and homogeneous aptamer proximity binding assay for fluorescent detection of protein biomarkers in human serum. *Talanta*, **2015**, 141, 230-4	6.2	12
100	Novel ABEI/Dissolved O/AgBiO Nanocrystals ECL Ternary System with High Luminous Efficiency for Ultrasensitive Determination of MicroRNA. *Analytical Chemistry*, **2019**, 91, 11447-11454	7.8	12
99	DNA Cascade Reaction with High-Efficiency Target Conversion for Ultrasensitive Electrochemiluminescence microRNA Detection. *Analytical Chemistry*, **2019**, 91, 10258-10265	7.8	12
98	Electrochemical sensor based on Prussian blue nanorods and gold nanochains for the determination of H2O2. *European Food Research and Technology*, **2011**, 232, 87-95	3.4	12
97	Electrochemiluminescence Sensor Based on Multiwalled Carbon Nanotubes Doped Polyvinyl Butyral Film Containing Ru(bpy)$rm{ {_{3}^{2+}}}$ as Chemiluminescence Reagent. *Electroanalysis*, **2009**, 21, 1636-1640	3	12

96	Potentiometric Iodide Selectivity of Polymer-Membrane Sensors Based on Co(II) Triazole Derivative. *Electroanalysis*, **2008**, 20, 1434-1439	3	12
95	High-Efficient Electrochemiluminescence of BCNO Quantum Dot-Equipped Boron Active Sites with Unexpected Catalysis for Ultrasensitive Detection of MicroRNA. *Analytical Chemistry*, **2020**, 92, 14723-14729	7.8	12
94	Photoelectrochemical aptamer-based sensing of the vascular endothelial growth factor by adjusting the light harvesting efficiency of g-CN via porous carbon spheres. *Mikrochimica Acta*, **2019**, 186, 275	5.8	11
93	An electrochemiluminescence biosensor for dopamine based on the recognition of fullerene-derivative and the quenching of cuprous oxide nanocrystals. *RSC Advances*, **2015**, 5, 58019-58023	3.7	11
92	Self-enhanced PEI-Ru(II) complex with polyamino acid as booster to construct ultrasensitive electrochemiluminescence immunosensor for carcinoembryonic antigen detection. *Analytica Chimica Acta*, **2018**, 1001, 112-118	6.6	11
91	Cyclovoltammetric acetylcholinesterase activity assay after inhibition and subsequent reactivation by using a glassy carbon electrode modified with palladium nanorods composited with functionalized C60 fullerene. *Mikrochimica Acta*, **2016**, 183, 2403-2409	5.8	11
90	Electrochemiluminescent carbon dot-based determination of microRNA-21 by using a hemin/G-wire supramolecular nanostructure as co-reaction accelerator. *Mikrochimica Acta*, **2018**, 185, 432	5.8	11
89	Biomolecule-Doped Organic/Inorganic Hybrid Nanocomposite Film for Label-Free Electrochemical Immunoassay of 甲1-Fetoprotein. *Electroanalysis*, **2008**, 20, 989-995	3	11
88	A Highly Selective Salicylate Electrode Based on Schiff Base Complexes of Cobalt(III). *Analytical Letters*, **2003**, 36, 2379-2392	2.2	11
87	Versatile Luminol/Dissolved Oxygen/Fe@FeO Nanowire Ternary Electrochemiluminescence System Combined with Highly Efficient Strand Displacement Amplification for Ultrasensitive microRNA Detection. *Analytical Chemistry*, **2021**, 93, 13334-13341	7.8	11
86	RNA responsive and catalytic self-assembly of DNA nanostructures for highly sensitive fluorescence detection of microRNA from cancer cells. *Chemical Communications*, **2015**, 51, 16494-7	5.8	10
85	DNA Structure Transition-Induced Affinity Switch for Biosensing Based on the Strong Electrochemiluminescence Platform from Organic Microcrystals. *Analytical Chemistry*, **2020**, 92, 3940-3948	7.8	10
84	Terminal protection of small molecule-linked ssDNA for label-free and sensitive fluorescent detection of folate receptor. *Talanta*, **2014**, 128, 237-41	6.2	10
83	Nanostructured multi-walled carbon nanotubes derivate based on carbon paste electrode for potentiometric detection of Ag+ ions. *Analytical Methods*, **2012**, 4, 454	3.2	10
82	Gold nanolabels and enzymatic recycling dual amplification-based electrochemical immunosensor for the highly sensitive detection of carcinoembryonic antigen. *Science China Chemistry*, **2011**, 54, 1770-1776	7.9	10
81	A capacitive sensor based on molecularly imprinted polymers and poly(p-aminobenzene sulfonic acid) film for detection of pazufloxacin mesilate. *Science in China Series B: Chemistry*, **2007**, 50, 547-553		10
80	Porous FeO@COF-Immobilized gold nanoparticles with excellent catalytic performance for sensitive electrochemical detection of ATP. *Biosensors and Bioelectronics*, **2022**, 197, 113758	11.8	10
79	A well-directional three-dimensional DNA walking nanomachine that runs in an orderly manner. *Chemical Science*, **2020**, 11, 2193-2199	9.4	10

78	Highly sensitive biosensor based on target induced dual signal amplification to electrochemiluminescent nanoneedles of Ru(II) complex. *Biosensors and Bioelectronics*, **2019**, 140, 111344	11.8	9
77	An Amperometric Immunosensor Based on Layer-by-Layer Assembly of L-Cysteine and Nanosized Prussian Blue on Gold Electrode for Determination of Human Chorionic Gonadotrophin. *Electroanalysis*, **2009**, 21, 707-714	3	9
76	An Amperometric Biosensor for Glucose Based on Self-Assembling Nanoparticles and Electrosynthesis of Poly-o-Diaminobenzene on the Prussian Blue-Modified Gold Electrode. *Analytical Letters*, **2005**, 38, 1085-1097	2.2	9
75	Engineering a high-efficient DNA amplifier for biosensing application based on perylene decorated Ag microflowers as novel electrochemiluminescence indicators. *Biosensors and Bioelectronics*, **2021**, 182, 113178	11.8	9
74	Fullerenol as a photoelectrochemical nanoprobe for discrimination and ultrasensitive detection of amplification-free single-stranded DNA. *Biosensors and Bioelectronics*, **2020**, 173, 112802	11.8	9
73	Kill Three Birds with One Stone: Poly(3,4-ethylenedioxythiophene)-Hosted Ag Nanoclusters with Boosted Cathodic Electrochemiluminescence for Biosensing Application. *Analytical Chemistry*, **2021**, 93, 1120-1125	7.8	9
72	New Signal Probe Integrated with ABEI as ECL Luminophore and Ag Nanoparticles Decorated CoS Nanoflowers as Bis-Co-Reaction Accelerator to Develop a Ultrasensitive cTnT Immunosensor. *Journal of the Electrochemical Society*, **2018**, 165, B686-B693	3.9	9
71	A SERS biosensor constructed by calcined ZnO substrate with high-efficiency charge transfer for sensitive detection of Pb2+. *Sensors and Actuators B: Chemical*, **2021**, 343, 130142	8.5	9
70	[Ru(dcbpy) dppz] /Fullerene Cosensitized PTB7-Th for Ultrasensitive Photoelectrochemical MicroRNA Assay. *Chemistry - A European Journal*, **2019**, 25, 4087-4092	4.8	8
69	Intense electrochemiluminescence from an organic microcrystal accelerated HO-free luminol system for microRNA detection. *Chemical Communications*, **2020**, 56, 9000-9003	5.8	8
68	Electrochemical biomolecule detection based on the regeneration of high-efficiency cascade catalysis for bifunctional nanozymes. *Chemical Communications*, **2020**, 56, 2276-2279	5.8	8
67	Ion exchange for synthesis of porous CuxO/SnO2/ZnSnO3 microboxes as a high-performance lithium-ion battery anode. *New Journal of Chemistry*, **2018**, 42, 12008-12012	3.6	8
66	A noncovalent Ru(phen)32+@CNTs nanocomposite and its application as a solid-state electrochemiluminescence signal probe. *RSC Advances*, **2014**, 4, 1955-1960	3.7	8
65	Enhancing photoelectrochemical performance of ZnInS by phosphorus doping for sensitive detection of miRNA-155. *Chemical Communications*, **2020**, 56, 14275-14278	5.8	8
64	A DNA nanopillar as a scaffold to regulate the ratio and distance of mimic enzymes for an efficient cascade catalytic platform. *Chemical Science*, **2020**, 12, 407-411	9.4	8
63	Combining Porous Magnetic Ni@C Nanospheres and CaCO Microcapsule as Surface-Enhanced Raman Spectroscopy Sensing Platform for Hypersensitive C-Reactive Protein Detection. *ACS Applied Materials & Interfaces*, **2018**, 10, 33707-33712	9.5	8
62	DNA Three-Way Junction with Multiple Recognition Regions Mediated an Unconfined DNA Walker for Electrochemical Ultrasensitive Detection of miRNA-182-5p. *Analytical Chemistry*, **2021**, 93, 12981-12986	7.8	8
61	Wavelength distinguishable signal quenching and enhancing toward photoactive material 3,4,9,10-perylenetetracarboxylic dianhydride for simultaneous assay of dual metal ions. *Biosensors and Bioelectronics*, **2019**, 145, 111702	11.8	7

60	FeS2@AuNPs Nanocomposite as Mimicking Enzyme for Constructing Signal-off Sandwich-type Electrochemical Immunosensor Based on Electroactive Nickel Hexacyanoferrate as Matrix. *Electroanalysis*, **2019**, 31, 1019-1025	3	7
59	Terminal protection of small molecule-linked ssDNA for label-free and highly sensitive colorimetric detection of folate receptor biomarkers. *RSC Advances*, **2015**, 5, 6100-6105	3.7	7
58	An Electrochemical Assay Based on Acid-Induced Dissolution of Nanoparticles to Trigger Enzyme-Free Cleavage for Target Detection. *Journal of the Electrochemical Society*, **2018**, 165, B223-B226	3.9	7
57	A novel "signal on" photoelectrochemical strategy based on dual functional hemin for microRNA assay. *Chemical Communications*, **2019**, 55, 9721-9724	5.8	7
56	Double layer enzyme modified carbon nanotubes as label for sandwich-type immunoassay of tumor markers. *Mikrochimica Acta*, **2011**, 172, 373-378	5.8	7
55	Novel Membrane Potentiometric Thiocyanate Sensor Based on Tribenzyltin(IV) Dithiocarbamate. *Electroanalysis*, **2005**, 17, 1003-1007	3	7
54	High-sensitive electrochemiluminescent analysis based on co-reactive high-molecular polymer and dual catalysis to generate oxygen in situ. *Analytica Chimica Acta*, **2019**, 1081, 65-71	6.6	6
53	Highly enhanced electrochemiluminescent strategy for tumor biomarkers detection with in situ generation of L-homocysteine for signal amplification. *Analytica Chimica Acta*, **2014**, 815, 16-21	6.6	6
52	Graphene nanosensor for highly sensitive fluorescence turn-on detection of Hg2+ based on target recycling amplification. *RSC Advances*, **2014**, 4, 39082	3.7	6
51	A Novel Amperometric Biosensor for Determination of Hydrogen Peroxide Based on Nafion and Polythionine as Well as Gold Nanoparticles and Gelatin as Matrixes. *Analytical Letters*, **2006**, 39, 483-494	2.2	6
50	Dual 3D DNA Nanomachine-Mediated Catalytic Hairpin Assembly for Ultrasensitive Detection of MicroRNA. *Analytical Chemistry*, **2021**, 93, 13952-13959	7.8	6
49	Double Hairpin DNAs Recognition Induced a Novel Cascade Amplification for Highly Specific and Ultrasensitive Electrochemiluminescence Detection of DNA. *Analytical Chemistry*, **2021**, 93, 7987-7992	7.8	6
48	DNA Structure-Stabilized Liquid-Liquid Self-Assembled Ordered Au Nanoparticle Interface for Sensitive Detection of MiRNA 155. *Analytical Chemistry*, **2021**, 93, 11019-11024	7.8	6
47	High-Efficient Electrochemiluminescence of Au Nanoclusters Induced by the Electrosensitizer CuO: The Mechanism Insights from the Electrogenerated Process. *Analytical Chemistry*, **2021**, 93, 10212-10219	7.8	6
46	An ATP-fueled nucleic acid signal amplification strategy for highly sensitive microRNA detection. *Chemical Communications*, **2018**, 54, 10897-10900	5.8	6
45	Crystallization-Induced Enhanced Electrochemiluminescence from Tetraphenyl Alkene Nanocrystals for Ultrasensitive Sensing. *Analytical Chemistry*, **2021**, 93, 10890-10897	7.8	6
44	K-junction structure mediated exponential signal amplification strategy for microRNA detection in electrochemiluminescence biosensor. *Analyst, The*, **2017**, 142, 2185-2190	5	5
43	Amperometric sensor for nitrite using a glassy carbon electrode modified with thionine functionalized MWCNTs/Au nanorods/SDS nanohybrids. *Surface and Interface Analysis*, **2012**, 44, 1233-1237	1.5	5

42	Potentiometric Membrane Electrode for Cr(III) Ion Based on a New Aryl Amide Bifunctional Bridging Ligand as a Neutral Carrier. *Journal of the Chinese Chemical Society*, **2009**, 56, 676-682	1.5	5
41	Highly Thiocyanate-Selective PVC Membrane Electrode Based on Lipophilic Ferrocene Derivative. *Electroanalysis*, **2005**, 17, 1865-1869	3	5
40	Rapid self-disassembly of DNA diblock copolymer micelles via target induced hydrophilic-hydrophobic regulation for sensitive MiRNA detection. *Chemical Communications*, **2020**, 56, 10215-10218	5.8	5
39	Engineering a Rolling-Circle Strand Displacement Amplification Mediated Label-Free Ultrasensitive Electrochemical Biosensing Platform. *Analytical Chemistry*, **2021**, 93, 9568-9574	7.8	5
38	Defect engineering of In2S3 nanoflowers through tungsten doping for ultrasensitive visible-light-excited photoelectrochemical sensors. *Journal of Materials Chemistry C*, **2021**, 9, 7384-7391	7.1	5
37	A Novel Ratiometric Electrochemical Biosensor Using Only One Signal Tag for Highly Reliable and Ultrasensitive Detection of miRNA-21.. *Analytical Chemistry*, **2022**, 94, 5167-5172	7.8	5
36	A near-infrared light-controlled, ultrasensitive one-step photoelectrochemical detection of dual cell apoptosis indicators in living cancer cells. *Chemical Communications*, **2020**, 56, 8488-8491	5.8	4
35	Hemin Functionalized Multiwalled Carbon Nanotubes as a Matrix for Sensitive Electrogenerated Chemiluminescence Cholesterol Biosensor. *Electroanalysis*, **2013**, 25, 2700-2706	3	4
34	New Ni(II) Ion-Selective Electrode Based on the N-S Schiff Base Ligand as Neutral Carrier in PVC Matrix. *Analytical Letters*, **2009**, 42, 2411-2429	2.2	4
33	Electrochemical Immunosensing Strategies Based on Immobilization of Anti-IgC on Mixed Self-Assembly Monolayers Carrying Surface Amide or Carboxyl Groups. *Analytical Letters*, **2006**, 39, 1809-1821	2.2	4
32	Highly sensitive potentiometric immunosensor for hepatitis B surface antigen diagnosis. *Science in China Series B: Chemistry*, **2005**, 48, 49-57		4
31	MnO MFs as a coreaction accelerator for the construction of a novel ternary electrochemiluminescence system: ultrasensitive detection of microRNA. *Chemical Communications* , **2020**, 56, 976-979	5.8	4
30	Efficient electrochemiluminescence of perylene nanocrystal entrapped in hierarchical porous Au nanoparticle-graphene oxide film for bioanalysis based on one-pot DNA amplification. *Electrochimica Acta*, **2020**, 332, 135389	6.7	4
29	Simple and Regulable DNA Dimer Nanodevice to Arrange Cascade Enzymes for Sensitive Electrochemical Biosensing. *Analytical Chemistry*, **2020**, 92, 14197-14202	7.8	4
28	Co-catalytic Fc/HGQs/FeO nanocomposite mediated enzyme-free electrochemical biosensor for ultrasensitive detection of MicroRNA. *Chemical Communications*, **2021**, 57, 5179-5182	5.8	4
27	An Electrochemical Biosensor for Detection of DNA Species Related to Oral Cancer Based on a Particular Host-Guest Recognition-Assisted Strategy for Signal Tag In Situ. *Journal of the Electrochemical Society*, **2018**, 165, B289-B295	3.9	4
26	Cu-doped In2S3 based DNA nanocluster for ultrasensitive photoelectrochemical detection of VEGF165. *Sensors and Actuators B: Chemical*, **2021**, 340, 129942	8.5	4
25	Modular engineering of gold-silver nanocluster supermolecular structure endow strong electrochemiluminescence for ultrasensitive bioanalysis. *Biosensors and Bioelectronics*, **2021**, 190, 113449	11.8	4

24	An amperometric immunosensor for detection of Streptococcus suis serotype 2 using a nickel-gold nanocomposite as a tracer matrix. *RSC Advances*, **2015**, 5, 79323-79328	3.7	3
23	Simultaneous Determination of Ascorbic Acid, Dopamine and Uric Acid Based on Gold Nanoparticles-PTCA-Cys Composites Modified Electrodes. *Journal of the Chinese Chemical Society*, **2015**, 62, 739-746	1.5	3
22	Salicylate-selective Potential Response of an Electrode Based on a Copper(II)-phthalocyanine Derivative as an Ionophore. *Chinese Journal of Chemistry*, **2009**, 27, 99-104	4.9	3
21	A core-brush 3D DNA nanostructure: the next generation of DNA nanomachine for ultrasensitive sensing and imaging of intracellular microRNA with rapid kinetics.. *Chemical Science*, **2021**, 12, 15953-15959	9.4	3
20	Highly sensitive photoelectrochemical biosensor based on Au nanoparticles sensitized zinc selenide quantum dots for DNA detection. *Sensors and Actuators B: Chemical*, **2022**, 357, 131255	8.5	3
19	A sensitive label-free photoelectrochemical aptasensor based on a novel PTB7-Th/HO system with unexpected photoelectric performance for C-reactive protein analysis. *Biosensors and Bioelectronics* , **2021**, 181, 113162	11.8	3
18	Two kinds of DNA enzyme-powered bidirectional one-dimensional DNA walking nanomachine for payload release and biosensing. *Biosensors and Bioelectronics*, **2021**, 175, 112848	11.8	3
17	Photoelectrochemical Assay Based on SnO/BiOBr p-n Heterojunction for Ultrasensitive DNA Detection. *Analytical Chemistry*, **2021**, 93, 12995-13000	7.8	3
16	Programmable High-Speed and Hyper-Efficiency DNA Signal Magnifier.. *Advanced Science*, **2021**, e2104084	15.6	3
15	Aggregation-Induced Synergism by Hydrophobic-Driven Self-Assembly of Amphiphilic Oligonucleotides. *Chemistry - A European Journal*, **2020**, 26, 8767-8773	4.8	2
14	Glucose oxidase as a blocking agent-based signal amplification strategy for the fabrication of label-free amperometric immunosensors. *Science China Chemistry*, **2011**, 54, 536-544	7.9	2
13	Aptamer-based competitive electrochemical assay of small biomolecules. *Science China Chemistry*, **2011**, 54, 822-826	7.9	2
12	Direct electrochemistry and enzymatic activity of hemoglobin in positively charged colloid Au nanoparticles and hemoglobin layer-by-layer self-assembly films. *Science in China Series B: Chemistry* , **2007**, 50, 620-628		2
11	Sensitive immunosensor based on high effective resonance energy transfer of lucigenin to the cathodic electrochemiluminescence of tris(bipyridine) Ru(II) complex. *Biosensors and Bioelectronics*, **2020**, 150, 111915	11.8	2
10	Programming a ""-like DNA Nanomachine as a Super Signal Amplifier for Ultrasensitive Electrochemical Assay of Hg. *Analytical Chemistry*, **2021**, 93, 12075-12080	7.8	2
9	P3HT-PbS nanocomposites with mimicking enzyme as bi-enhancer for ultrasensitive photocathodic biosensor. *Biosensors and Bioelectronics*, **2022**, 197, 113806	11.8	1
8	Electrochemiluminescence from a biocatalysis accelerated N-(aminobutyl)-N-(ethylisoluminol)/dissolved O system for microRNA detection. *Mikrochimica Acta*, **2021**, 188, 205	5.8	1
7	Dual catalytic hairpin assembly and enzyme cascade catalysis amplification based sensitive dual-mode biosensor with significantly enhanced opposite signal readout. *Sensors and Actuators B: Chemical*, **2021**, 348, 130676	8.5	1

6	Enhanced cathodic photocurrent derived from N-type S doped-BiWO nanoparticles through an antenna-like strategy for photoelectrochemical biosensor.. *Biosensors and Bioelectronics*, **2022**, 207, 114176	11.8	1
5	A novel self-enhancement NCNDs-BPEI-Ru nanocomposite with highly efficient electrochemiluminescence as signal probe for ultrasensitive detection of MTB. *Sensors and Actuators B: Chemical*, **2022**, 354, 131252	8.5	0
4	Mismatch-fueled catalytic hairpin assembly mediated ultrasensitive biosensor for rapid detection of MicroRNA.. *Analytica Chimica Acta*, **2022**, 1204, 339663	6.6	0
3	Tetrakis(4-aminophenyl) ethene-doped perylene microcrystals with strong electrochemiluminescence for biosensing applications. *Analyst, The*, **2020**, 145, 5260-5265	5	
2	An orbitron-like 3D DNA clip-based nanomachine and its application for sensitive fluorescent bioassay of MicroRNA. *Analytica Chimica Acta*, **2020**, 1126, 24-30	6.6	
1	Facile Synthesis of Amino Shell-Magnetic Core Nanoparticles and Application for Direct Electrochemistry. *Analytical Letters*, **2012**, 45, 2697-2706	2.2	