Erkang Wang

List of Publications by Year in Descending Order

156 papers	10,172 citations	51 h-index	98 g-index
165 ext. papers	12,249 ext. citations	9.8 avg, IF	7.01 L-index

#	Paper	IF	Citations
156	Hunting the Culprits: Reactive Oxygen Species in Aprotic Lithium□Oxygen Batteries. *Journal of Physical Chemistry C*, **2022**, 126, 1243-1255	3.8	4
155	Amorphous metal-organic frameworks on PtCu hydrogels: Enzyme immobilization platform with boosted activity and stability for sensitive biosensing.. *Journal of Hazardous Materials*, **2022**, 432, 128707	12.8	1
154	Midas Touch: Engineering Activity of Metal-Organic Frameworks via Coordination for Biosensing.. *Analytical Chemistry*, **2021**,	7.8	4
153	Ultrathin Ruthenium Nanosheets with Crystallinity-Modulated Peroxidase-like Activity for Protein Discrimination.. *Analytical Chemistry*, **2021**,	7.8	6
152	Tuning the Ratio of Pt(0)/Pt(II) in Well-Defined Pt Clusters Enables Enhanced Electrocatalytic Reduction/Oxidation of Hydrogen Peroxide for Sensitive Biosensing. *Analytical Chemistry*, **2021**, 93, 15982-15989	7.8	3
151	FeC-Assisted Single Atomic Fe Sites for Sensitive Electrochemical Biosensing. *Analytical Chemistry*, **2021**, 93, 5334-5342	7.8	12
150	Nanozyme-Activated Synergistic Amplification for Ultrasensitive Photoelectrochemical Immunoassay. *Analytical Chemistry*, **2021**, 93, 6881-6888	7.8	21
149	Neutral Zn-Air Battery Assembled with Single-Atom Iridium Catalysts for Sensitive Self-Powered Sensing System. *Advanced Functional Materials*, **2021**, 31, 2101193	15.6	9
148	Metal-Organic Frameworks Enhance Biomimetic Cascade Catalysis for Biosensing. *Advanced Materials*, **2021**, 33, e2005172	24	29
147	Fluorogenic Reaction Generated via Ascorbic Acid for the Construction of Universal Sensing Platform. *Analytical Chemistry*, **2021**, 93, 6873-6880	7.8	5
146	A Solid-State Electrochemiluminescence Sensor Based on Novel Two-Dimensional Ti3C2 MXene. *ChemElectroChem*, **2021**, 8, 1858-1863	4.3	3
145	Reversible Cycling of Graphite Electrodes in Propylene Carbonate Electrolytes Enabled by Ethyl Isothiocyanate. *ACS Applied Materials & Interfaces*, **2021**, 13, 26023-26033	9.5	3
144	Synergistically enhanced single-atomic site Fe by Fe3C@C for boosted oxygen reduction in neutral electrolyte. *Nano Energy*, **2021**, 84, 105840	17.1	23
143	Modulating Oxygen Reduction Behaviors on Nickel Single-Atom Catalysts to Probe the Electrochemiluminescence Mechanism at the Atomic Level. *Analytical Chemistry*, **2021**, 93, 8663-8670	7.8	8
142	Atom-Anchoring Strategy with Metal-Organic Frameworks for Highly Efficient Solid-State Electrochemiluminescence. *Analytical Chemistry*, **2021**, 93, 9628-9633	7.8	5
141	Defect-Engineered Nanozyme-Linked Receptors. *Small*, **2021**, 17, e2101907	11	11
140	PdBi Single-Atom Alloy Aerogels for Efficient Ethanol Oxidation. *Advanced Functional Materials*, **2021**, 31, 2103465	15.6	20

139	Proton-Regulated Catalytic Activity of Nanozymes for Dual-Modal Bioassay of Urease Activity. *Analytical Chemistry*, **2021**, 93, 9897-9903	7.8	6
138	Immobilizing Enzymes on Noble Metal Hydrogel Nanozymes with Synergistically Enhanced Peroxidase Activity for Ultrasensitive Immunoassays by Cascade Signal Amplification. *ACS Applied Materials & Interfaces*, **2021**, 13, 33383-33391	9.5	15
137	Single-atom catalysts boost signal amplification for biosensing. *Chemical Society Reviews*, **2021**, 50, 750-765	58.5	49
136	Cobalt oxyhydroxide nanosheets integrating with metal indicator enable sensitive detection of glutathione. *Sensors and Actuators B: Chemical*, **2021**, 329, 129247	8.5	7
135	Single-Atom-Based Heterojunction Coupling with Ion-Exchange Reaction for Sensitive Photoelectrochemical Immunoassay. *Nano Letters*, **2021**, 21, 1879-1887	11.5	31
134	Supramolecular Anchoring Strategy for Facile Production of Ruthenium Nanoparticles Embedded in N-Doped Mesoporous Carbon Nanospheres for Efficient Hydrogen Generation. *ACS Applied Materials & Interfaces*, **2021**, 13, 32997-33005	9.5	1
133	Fe-N-C Single-Atom Catalyst Coupling with Pt Clusters Boosts Peroxidase-like Activity for Cascade-Amplified Colorimetric Immunoassay. *Analytical Chemistry*, **2021**, 93, 12353-12359	7.8	7
132	Axial Ligand-Engineered Single-Atom Catalysts with Boosted Enzyme-Like Activity for Sensitive Immunoassay. *Analytical Chemistry*, **2021**, 93, 12758-12766	7.8	6
131	Trace Iridium as ?Adhesive? in PtCuIr Aerogels for Robust Methanol Electrooxidation. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 13039-13046	8.3	1
130	DNA Computing: Versatile Logic Circuits and Innovative Bio-applications **2021**, 231-246		1
129	Iridium Single-Atomic Site Catalysts with Superior Oxygen Reduction Reaction Activity for Sensitive Monitoring of Organophosphorus Pesticides.. *Analytical Chemistry*, **2021**,	7.8	6
128	Direct Spectroscopic Evidence for Solution-Mediated Oxygen Reduction Reaction Intermediates in Aprotic Lithium-Oxygen Batteries.. *Nano Letters*, **2021**,	11.5	2
127	Propelling DNA Computing with Materials' Power: Recent Advancements in Innovative DNA Logic Computing Systems and Smart Bio-Applications. *Advanced Science*, **2020**, 7, 2001766	13.6	31
126	Densely Isolated FeN4 Sites for Peroxidase Mimicking. *ACS Catalysis*, **2020**, 10, 6422-6429	13.1	87
125	Hexamine-Coordination-Framework-Derived Co/N-doped Carbon Nanosheets for Robust Oxygen Reduction Reaction. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 9721-9730	8.3	13
124	Largely boosted methanol electrooxidation using ionic liquid/PdCu aerogels via interface engineering. *Materials Horizons*, **2020**, 7, 2407-2413	14.4	19
123	In Situ Formed Catalytic Interface for Boosting Chemiluminescence. *Analytical Chemistry*, **2020**, 92, 10108-10113	7.8	3
122	Illuminating Diverse Concomitant DNA Logic Gates and Concatenated Circuits with Hairpin DNA-Templated Silver Nanoclusters as Universal Dual-Output Generators. *Advanced Materials*, **2020**, 32, e1908480	24	23

121	Enhanced Stability of Enzyme Immobilized in Rationally Designed Amphiphilic Aerogel and Its Application for Sensitive Glucose Detection. *Analytical Chemistry*, **2020**, 92, 5319-5328	7.8	22
120	Cascade Reaction System Integrating Single-Atom Nanozymes with Abundant Cu Sites for Enhanced Biosensing. *Analytical Chemistry*, **2020**, 92, 3373-3379	7.8	81
119	Broadband polymer photodetectors with a good trade-off between broad response and high detectivity by using combined electron-deficient moieties. *Journal of Materials Chemistry C*, **2020**, 8, 3431-3437	7.1	2
118	A General Method for Transition Metal Single Atoms Anchored on Honeycomb-Like Nitrogen-Doped Carbon Nanosheets. *Advanced Materials*, **2020**, 32, e1906905	24	97
117	Efficient BiVO photoanode decorated with TiCT MXene for enhanced photoelectrochemical sensing of Hg(II) ion. *Analytica Chimica Acta*, **2020**, 1119, 11-17	6.6	23
116	Fine-Tuning Pyridinic Nitrogen in Nitrogen-Doped Porous Carbon Nanostructures for Boosted Peroxidase-Like Activity and Sensitive Biosensing. *Research*, **2020**, 2020, 8202584	7.8	7
115	Highly-defective Fe-N-C catalysts towards pH-Universal oxygen reduction reaction. *Applied Catalysis B: Environmental*, **2020**, 263, 118347	21.8	68
114	Single-Atom Ir-Anchored 3D Amorphous NiFe Nanowire@Nanosheets for Boosted Oxygen Evolution Reaction. *ACS Applied Materials & Interfaces*, **2020**, 12, 3539-3546	9.5	19
113	Ratiometric sensing of alkaline phosphatase based on the catalytical activity from Mn-Fe layered double hydroxide nanosheets. *Nanoscale*, **2020**, 12, 2022-2027	7.7	12
112	Single-Atom Iron Boosts Electrochemiluminescence. *Angewandte Chemie*, **2020**, 132, 3562-3566	3.6	9
111	Single-Atom Iron Boosts Electrochemiluminescence. *Angewandte Chemie - International Edition*, **2020**, 59, 3534-3538	16.4	76
110	Universal Platform for Ratiometric Sensing Based on Catalytically Induced Inner-Filter Effect by Cu. *Analytical Chemistry*, **2020**, 92, 16066-16071	7.8	10
109	Noble Metal Aerogels. *ACS Applied Materials & Interfaces*, **2020**, 12, 52234-52250	9.5	23
108	Recent advances in co-reaction accelerators for sensitive electrochemiluminescence analysis. *Chemical Communications*, **2020**, 56, 10989-10999	5.8	31
107	Secondary-Atom-Doping Enables Robust Fe-N-C Single-Atom Catalysts with Enhanced Oxygen Reduction Reaction. *Nano-Micro Letters*, **2020**, 12, 163	19.5	56
106	Dissociable photoelectrode materials boost ultrasensitive photoelectrochemical detection of organophosphorus pesticides. *Analytica Chimica Acta*, **2020**, 1130, 100-106	6.6	11
105	Hierarchically Porous S/N Codoped Carbon Nanozymes with Enhanced Peroxidase-like Activity for Total Antioxidant Capacity Biosensing. *Analytical Chemistry*, **2020**, 92, 13518-13524	7.8	42
104	Tuning Atomically Dispersed Fe Sites in Metal-Organic Frameworks Boosts Peroxidase-Like Activity for Sensitive Biosensing. *Nano-Micro Letters*, **2020**, 12, 184	19.5	37

103	Boosted Oxygen Evolution Reactivity via Atomic Iron Doping in Cobalt Carbonate Hydroxide Hydrate. *ACS Applied Materials & Interfaces*, **2020**, 12, 40220-40228	9.5	19
102	When Nanozymes Meet Single-Atom Catalysis. *Angewandte Chemie - International Edition*, **2020**, 59, 2565-2576	12.1	201
101	When Nanozymes Meet Single-Atom Catalysis. *Angewandte Chemie*, **2020**, 132, 2585-2596	3.6	55
100	pH-responsive allochroic nanoparticles for the multicolor detection of breast cancer biomarkers. *Biosensors and Bioelectronics*, **2020**, 148, 111780	11.8	22
99	Oxidase-Like Fe-N-C Single-Atom Nanozymes for the Detection of Acetylcholinesterase Activity. *Small*, **2019**, 15, e1903108	11	102
98	Multiscale porous Fe-N-C networks as highly efficient catalysts for the oxygen reduction reaction. *Nanoscale*, **2019**, 11, 19506-19511	7.7	22
97	Lighting Up the Gold Nanoclusters via Host-Guest Recognition for High-Efficiency Antibacterial Performance and Imaging. *ACS Applied Materials & Interfaces*, **2019**, 11, 36831-36838	9.5	28
96	Glucose Oxidase-Integrated Metal-Organic Framework Hybrids as Biomimetic Cascade Nanozymes for Ultrasensitive Glucose Biosensing. *ACS Applied Materials & Interfaces*, **2019**, 11, 22096-22101	9.5	134
95	Self-Assembly of All-Inclusive Allochroic Nanoparticles for the Improved ELISA. *Analytical Chemistry* , **2019**, 91, 8461-8465	7.8	29
94	Glutathione Regulated Inner Filter Effect of MnO Nanosheets on Boron Nitride Quantum Dots for Sensitive Assay. *Analytical Chemistry*, **2019**, 91, 5762-5767	7.8	73
93	Polydopamine-Capped Bimetallic AuPt Hydrogels Enable Robust Biosensor for Organophosphorus Pesticide Detection. *Small*, **2019**, 15, e1900632	11	72
92	A Molybdenum Carbide Nanotubes Modified Electrode as the Functionalized Sensing Platform for Electrochemical Detection of Dopamine. *Electroanalysis*, **2019**, 31, 922-926	3	2
91	Atomically dispersed FeNx active sites within hierarchical mesoporous carbon as efficient electrocatalysts for the oxygen reduction reaction. *Journal of Materials Chemistry A*, **2019**, 7, 20132-20138	13	25
90	Sensitive and Multiplexed SERS Nanotags for the Detection of Cytokines Secreted by Lymphoma. *ACS Sensors*, **2019**, 4, 2507-2514	9.2	21
89	A dopamine-induced Au hydrogel nanozyme for enhanced biomimetic catalysis. *Chemical Communications*, **2019**, 55, 9865-9868	5.8	50
88	Enhancement of the hydrogen evolution performance by finely tuning the morphology of Co-based catalyst without changing chemical composition. *Nano Research*, **2019**, 12, 191-196	10	10
87	Cationic-Polyelectrolyte-Modified Fluorescent DNA-Silver Nanoclusters with Enhanced Emission and Higher Stability for Rapid Bioimaging. *Analytical Chemistry*, **2019**, 91, 2050-2057	7.8	41
86	Recent Advancements in Transition Metal-Nitrogen-Carbon Catalysts for Oxygen Reduction Reaction. *Electroanalysis*, **2018**, 30, 1217-1228	3	52

85	Boron Nitride Quantum Dots as Efficient Coreactant for Enhanced Electrochemiluminescence of Ruthenium(II) Tris(2,2′-bipyridyl). *Analytical Chemistry*, **2018**, 90, 2141-2147	7.8	71
84	Tackling Grand Challenges of the 21st Century with Electroanalytical Chemistry. *Journal of the American Chemical Society*, **2018**, 140, 10629-10638	16.4	27
83	A simple, label-free, electrochemical DNA parity generator/checker for error detection during data transmission based on "aptamer-nanoclaw"-modulated protein steric hindrance. *Chemical Science*, **2018**, 9, 6981-6987	9.4	25
82	Lighting Up the Thioflavin T by Parallel-Stranded TG(GA) n DNA Homoduplexes. *ACS Sensors*, **2018**, 3, 1118-1125	9.2	14
81	Rapid synthesis of CoO nanosheet arrays on Ni foam by in situ electrochemical oxidization of air-plasma engraved Co(OH) for efficient oxygen evolution. *Chemical Communications*, **2018**, 54, 12698-12701	5.8	22
80	The Effect of Metal Components in the Quaternary Electrocatalysts on the Morphology and Catalytic Performance of Transition Metal Phosphides. *Electroanalysis*, **2018**, 30, 2584-2588	3	3
79	Co O /Fe Co P Interface Nanowire for Enhancing Water Oxidation Catalysis at High Current Density. *Advanced Materials*, **2018**, 30, e1803551	24	115
78	Point-of-Care Diagnoses: Flexible Patterning Technique for Self-Powered Wearable Sensors. *Analytical Chemistry*, **2018**, 90, 11780-11784	7.8	32
77	Chemiluminescence of CsPbBr Perovskite Nanocrystal on the Hexane/Water Interface. *Analytical Chemistry*, **2018**, 90, 11651-11657	7.8	20
76	Gold-silver bimetallic nanoclusters with enhanced fluorescence for highly selective and sensitive detection of glutathione. *Sensors and Actuators B: Chemical*, **2018**, 273, 1827-1832	8.5	38
75	Nanozyme: An emerging alternative to natural enzyme for biosensing and immunoassay. *TrAC - Trends in Analytical Chemistry*, **2018**, 105, 218-224	14.6	319
74	Self-Crosslink Method for a Straightforward Synthesis of Poly(Vinyl Alcohol)-Based Aerogel Assisted by Carbon Nanotube. *Advanced Functional Materials*, **2017**, 27, 1604423	15.6	40
73	Beyond Conventional Patterns: New Electrochemical Lithography with High Precision for Patterned Film Materials and Wearable Sensors. *Analytical Chemistry*, **2017**, 89, 2569-2574	7.8	11
72	Simple, fast, label-free, and nanoquencher-free system for operating multivalued DNA logic gates using polythymine templated CuNPs as signal reporters. *Nano Research*, **2017**, 10, 2560-2569	10	21
71	Recent Advances Based on Nanomaterials as Electrochemiluminescence Probes for the Fabrication of Sensors. *ChemElectroChem*, **2017**, 4, 1639-1650	4.3	72
70	Bipolar Electrodes with 100% Current Efficiency for Sensors. *ACS Sensors*, **2017**, 2, 320-326	9.2	46
69	In Situ Formation of Hierarchical Porous Fe,Co-N-Doped Carbon as a Highly Efficient Electrocatalyst for Oxygen Reduction. *ChemElectroChem*, **2017**, 4, 2005-2011	4.3	7
68	P doped Co2Mo3Se nanosheets grown on carbon fiber cloth as an efficient hybrid catalyst for hydrogen evolution. *Journal of Materials Chemistry A*, **2017**, 5, 12043-12047	13	23

67	Enhanced Electrochemiluminescence Behavior of Gold-Silver Bimetallic Nanoclusters and Its Sensing Application for Mercury(II). *Analytical Chemistry*, **2017**, 89, 7788-7794	7.8	94
66	Bipolar Electrode Based Reversible Fluorescence Switch Using Prussian Blue/Au Nanoclusters Nanocomposite Film. *Analytical Chemistry*, **2017**, 89, 3867-3872	7.8	29
65	A Cake-Style CoS2@MoS2/RGO Hybrid Catalyst for Efficient Hydrogen Evolution. *Advanced Functional Materials*, **2017**, 27, 1602699	15.6	182
64	Exploiting Polydopamine Nanospheres to DNA Computing: A Simple, Enzyme-Free and G-Quadruplex-Free DNA Parity Generator/Checker for Error Detection during Data Transmission. *ACS Applied Materials & Interfaces*, **2017**, 9, 1322-1330	9.5	33
63	Tyramine Hydrochloride Based Label-Free System for Operating Various DNA Logic Gates and a DNA Caliper for Base Number Measurements. *ChemPhysChem*, **2017**, 18, 1767-1772	3.2	10
62	An efficient CoS2/CoSe2 hybrid catalyst for electrocatalytic hydrogen evolution. *Journal of Materials Chemistry A*, **2017**, 5, 2504-2507	13	71
61	Self-supported ternary Co0.5Mn0.5P/carbon cloth (CC) as a high-performance hydrogen evolution electrocatalyst. *Nano Research*, **2017**, 10, 1001-1009	10	32
60	High-Sensitivity Electrochemiluminescence Probe with Molybdenum Carbides as Nanocarriers for ⊟Fetoprotein Sensing. *Analytical Chemistry*, **2017**, 89, 12108-12114	7.8	61
59	Amorphous CoB Grown on CoSe Nanosheets as a Hybrid Catalyst for Efficient Overall Water Splitting in Alkaline Medium. *ACS Applied Materials & Interfaces*, **2017**, 9, 39312-39317	9.5	63
58	Nitrogen-Doped Porous Carbon Matrix Derived from Metal-Organic Framework-Supported Pt Nanoparticles with Enhanced Oxygen Reduction Activity. *ChemElectroChem*, **2017**, 4, 2814-2818	4.3	8
57	Dual-electrochromic bipolar electrode-based universal platform for the construction of various visual advanced logic devices. *NPG Asia Materials*, **2017**, 9, e421-e421	10.3	9
56	Introducing Ratiometric Fluorescence to MnO Nanosheet-Based Biosensing: A Simple, Label-Free Ratiometric Fluorescent Sensor Programmed by Cascade Logic Circuit for Ultrasensitive GSH Detection. *ACS Applied Materials & Interfaces*, **2017**, 9, 25870-25877	9.5	123
55	A DNA-based parity generator/checker for error detection through data transmission with visual readout and an output-correction function. *Chemical Science*, **2017**, 8, 1888-1895	9.4	44
54	Wire-on-flake heterostructured ternary Co0.5Ni0.5P/CC: an efficient hydrogen evolution electrocatalyst. *Journal of Materials Chemistry A*, **2017**, 5, 982-987	13	41
53	Iron and nitrogen co-doped hierarchical porous graphitic carbon for a high-efficiency oxygen reduction reaction in a wide range of pH. *Journal of Materials Chemistry A*, **2016**, 4, 14364-14370	13	41
52	Molybdenum carbide nanotubes: a novel multifunctional material for label-free electrochemical immunosensing. *Nanoscale*, **2016**, 8, 15303-8	7.7	39
51	A label-free colorimetric aptasensor for simple, sensitive and selective detection of Pt (II) based on platinum (II)-oligonucleotide coordination induced gold nanoparticles aggregation. *Biosensors and Bioelectronics*, **2016**, 85, 771-776	11.8	24
50	Label-free and enzyme-free platform for the construction of advanced DNA logic devices based on the assembly of graphene oxide and DNA-templated AgNCs. *Nanoscale*, **2016**, 8, 3834-40	7.7	70

49	Colorimetric Strategy for Highly Sensitive and Selective Simultaneous Detection of Histidine and Cysteine Based on G-Quadruplex-Cu(II) Metalloenzyme. *Analytical Chemistry*, **2016**, 88, 2899-903	7.8	87
48	Self-Powered Bipolar Electrochromic Electrode Arrays for Direct Displaying Applications. *Analytical Chemistry*, **2016**, 88, 2543-7	7.8	47
47	Cascade DNA logic device programmed ratiometric DNA analysis and logic devices based on a fluorescent dual-signal probe of a G-quadruplex DNAzyme. *Chemical Communications*, **2016**, 52, 3766-9	5.8	43
46	Noble-metal-free CoS-S/G porous hybrids as an efficient electrocatalyst for oxygen reduction reaction. *Chemical Science*, **2016**, 7, 4167-4173	9.4	85
45	A Nanoscale Multichannel Closed Bipolar Electrode Array for Electrochemiluminescence Sensing Platform. *Analytical Chemistry*, **2016**, 88, 945-51	7.8	74
44	A polydopamine nanosphere based highly sensitive and selective aptamer cytosensor with enzyme amplification. *Chemical Communications*, **2016**, 52, 406-9	5.8	44
43	A Renewable Display Platform Based on the Bipolar Electrochromic Electrode. *ChemElectroChem*, **2016**, 3, 383-386	4.3	21
42	Identifying Reactive Sites and Transport Limitations of Oxygen Reactions in Aprotic Lithium-O2 Batteries at the Stage of Sudden Death. *Angewandte Chemie - International Edition*, **2016**, 55, 5201-5	16.4	128
41	Hybrid of g-CN Assisted Metal-Organic Frameworks and Their Derived High-Efficiency Oxygen Reduction Electrocatalyst in the Whole pH Range. *ACS Applied Materials & Interfaces*, **2016**, 8, 35281-35288	9.5	79
40	Electrochromic sensing platform based on steric hindrance effects for CEA detection. *Analyst, The*, **2016**, 141, 3985-8	5	25
39	Polydopamine Nanotubes as an Effective Fluorescent Quencher for Highly Sensitive and Selective Detection of Biomolecules Assisted with Exonuclease III Amplification. *Analytical Chemistry*, **2016**, 88, 9158-65	7.8	60
38	Electrocatalytic hydrogen evolution using the MS@MoS/rGO (M = Fe or Ni) hybrid catalyst. *Chemical Communications*, **2016**, 52, 11795-11798	5.8	31
37	Paper-based electrochemiluminescence bipolar conductivity sensing mechanism: A critical supplement for the bipolar system. *Journal of Electroanalytical Chemistry*, **2016**, 781, 15-19	4.1	18
36	DNA-based visual majority logic gate with one-vote veto function. *Chemical Science*, **2015**, 6, 1973-1978	9.4	59
35	Implementation of Arithmetic Functions on a Simple and Universal Molecular Beacon Platform. *Advanced Science*, **2015**, 2, 1500054	13.6	31
34	Portable and visual electrochemical sensor based on the bipolar light emitting diode electrode. *Analytical Chemistry*, **2015**, 87, 4612-6	7.8	31
33	Functionalized graphene/Fe3O4 supported AuPt alloy as a magnetic, stable and recyclable catalyst for a catalytic reduction reaction. *Journal of Materials Chemistry A*, **2015**, 3, 8793-8799	13	37
32	Controlling the synthesis and assembly of fluorescent Au/Ag alloy nanoclusters. *Chemical Communications*, **2015**, 51, 17417-9	5.8	20

31	Engineering DNA Three-Way Junction with Multifunctional Moieties: Sensing Platform for Bioanalysis. *Analytical Chemistry*, **2015**, 87, 11295-300	7.8	38
30	A universal method for the preparation of functional ITO electrodes with ultrahigh stability. *Chemical Communications*, **2015**, 51, 6788-91	5.8	5
29	Stabilized, superparamagnetic functionalized graphene/Fe3O4@Au nanocomposites for a magnetically-controlled solid-state electrochemiluminescence biosensing application. *Analytical Chemistry*, **2015**, 87, 1876-81	7.8	97
28	Metal nanoclusters: New fluorescent probes for sensors and bioimaging. *Nano Today*, **2014**, 9, 132-157	17.9	700
27	Biomimetic nanopore for sensitive and selective detection of Hg(ii) in conjunction with single-walled carbon nanotubes. *Journal of Materials Chemistry B*, **2014**, 2, 6371-6377	7.3	21
26	A resettable and reprogrammable DNA-based security system to identify multiple users with hierarchy. *ACS Nano*, **2014**, 8, 2796-803	16.7	48
25	Full-featured electrochemiluminescence sensing platform based on the multichannel closed bipolar system. *Analytical Chemistry*, **2014**, 86, 5595-9	7.8	79
24	Gold nanoparticles decorated carbon fiber mat as a novel sensing platform for sensitive detection of Hg(II). *Electrochemistry Communications*, **2014**, 42, 30-33	5.1	48
23	New Design forDetection Cell Applied in Magnetic Particle-Based Electrochemiluminescence Assays. *Electroanalysis*, **2014**, 26, 2563-2566	3	
22	Photoinduced electron transfer of DNA/Ag nanoclusters modulated by G-quadruplex/hemin complex for the construction of versatile biosensors. *Journal of the American Chemical Society*, **2013**, 135, 2403-6	16.4	228
21	Enzyme-free unlabeled DNA logic circuits based on toehold-mediated strand displacement and split G-quadruplex enhanced fluorescence. *Advanced Materials*, **2013**, 25, 2440-4	24	129
20	Cu nanoclusters with aggregation induced emission enhancement. *Small*, **2013**, 9, 3873-9	11	297
19	New insight into a microfluidic-based bipolar system for an electrochemiluminescence sensing platform. *Analytical Chemistry*, **2013**, 85, 5335-9	7.8	93
18	Four-way junction-driven DNA strand displacement and its application in building majority logic circuit. *ACS Nano*, **2013**, 7, 10211-7	16.7	88
17	Implementation of half adder and half subtractor with a simple and universal DNA-based platform. *NPG Asia Materials*, **2013**, 5, e76-e76	10.3	49
16	Organic-soluble fluorescent Au8 clusters generated from heterophase ligand-exchange induced etching of gold nanoparticles and their electrochemiluminescence. *Chemical Communications*, **2012**, 48, 3076-8	5.8	44
15	DNA G-quadruplex-templated formation of the fluorescent silver nanocluster and its application to bioimaging. *Talanta*, **2012**, 88, 450-5	6.2	66
14	Polyoxometalate-based inorganic-organic hybrid film structure with reversible electroswitchable fluorescence property. *Chemical Communications*, **2012**, 48, 2101-3	5.8	54

13	Reversibly electroswitched quantum dot luminescence in aqueous solution. *ACS Nano*, **2011**, 5, 5249-53	16.7	40
12	Strand exchange reaction modulated fluorescence "off-on" switching of hybridized DNA duplex stabilized silver nanoclusters. *Chemical Communications*, **2011**, 47, 10930-2	5.8	33
11	Oligonucleotide-stabilized fluorescent silver nanoclusters for sensitive detection of biothiols in biological fluids. *Biosensors and Bioelectronics*, **2011**, 26, 2585-9	11.8	174
10	Noble metal nanomaterials: Controllable synthesis and application in fuel cells and analytical sensors. *Nano Today*, **2011**, 6, 240-264	17.9	661
9	Highly sequence-dependent formation of fluorescent silver nanoclusters in hybridized DNA duplexes for single nucleotide mutation identification. *Journal of the American Chemical Society*, **2010**, 132, 932-4	16.4	431
8	Oligonucleotide-stabilized Ag nanoclusters as novel fluorescence probes for the highly selective and sensitive detection of the Hg2+ ion. *Chemical Communications*, **2009**, 3395-7	5.8	304
7	Fe3O4 magnetic nanoparticles as peroxidase mimetics and their applications in H2O2 and glucose detection. *Analytical Chemistry*, **2008**, 80, 2250-4	7.8	1114
6	Ultrasensitive colorimetric detection of protein by aptamer-Au nanoparticles conjugates based on a dot-blot assay. *Chemical Communications*, **2008**, 2520-2	5.8	115
5	Electrochemiluminescence sensor based on partial sulfonation of polystyrene with carbon nanotubes. *Analytical Chemistry*, **2007**, 79, 5439-43	7.8	71
4	Surface-enhanced Raman scattering of silver-gold bimetallic nanostructures with hollow interiors. *Journal of Chemical Physics*, **2006**, 125, 44710	3.9	51
3	Method for effective immobilization of Ru(bpy)(3)2+ on an electrode surface for solid-state electrochemiluminescene detection. *Analytical Chemistry*, **2005**, 77, 8166-9	7.8	126
2	Electrochemiluminescence quenching as an indirect method for detection of dopamine and epinephrine with capillary electrophoresis. *Electrophoresis*, **2005**, 26, 1732-6	3.6	64
1	Atomically dispersed N-coordinated Fe-Fe dual-sites with enhanced enzyme-like activities. *Nano Research*,1	10	6