Erkang Wang

List of Publications by Year
in descending order

274 papers	18,307 citations	19608 61 h-index	15218 126 g-index
280 all docs	280 docs citations	280 times ranked	20041 citing authors

#	Article	IF	Citations
1	Nanomaterials with enzyme-like characteristics (nanozymes): next-generation artificial enzymes. Chemical Society Reviews, 2013, 42, 6060.	18.7	3,000
2	Transitionâ€Metal (Co, Ni, and Fe)â€Based Electrocatalysts for the Water Oxidation Reaction. Advanced Materials, 2016, 28, 9266-9291.	11.1	1,392
3	Metal nanoclusters: New fluorescent probes for sensors and bioimaging. Nano Today, 2014, 9, 132-157.	6.2	839
4	Nanozyme: An emerging alternative to natural enzyme for biosensing and immunoassay. TrAC - Trends in Analytical Chemistry, 2018, 105, 218-224.	5.8	513
5	Potassiumâ^'Lead-Switched G-Quadruplexes: A New Class of DNA Logic Gates. Journal of the American Chemical Society, 2009, 131, 15082-15083.	6.6	373
6	Monodisperse mesoporous superparamagnetic single-crystal magnetite nanoparticles for drug delivery. Biomaterials, 2009, 30, 1881-1889.	5.7	372
7	A Lead(II)-Driven DNA Molecular Device for Turn-On Fluorescence Detection of Lead(II) Ion with High Selectivity and Sensitivity. Journal of the American Chemical Society, 2010, 132, 13156-13157.	6.6	353
8	Nanozymes: A clear definition with fuzzy edges. Nano Today, 2021, 40, 101269.	6.2	332
9	Bimetallic PdPt nanowire networks with enhanced electrocatalytic activity for ethylene glycol and glycerol oxidation. Energy and Environmental Science, 2015, 8, 2910-2915.	15.6	283
10	A Cakeâ€Style CoS₂@MoS₂/RGO Hybrid Catalyst for Efficient Hydrogen Evolution. Advanced Functional Materials, 2017, 27, 1602699.	7.8	231
11	Emerging Dualâ€Atomicâ€Site Catalysts for Efficient Energy Catalysis. Advanced Materials, 2021, 33, e2102576.	11.1	226
12	Pt/Pd bimetallic nanotubes with petal-like surfaces for enhanced catalytic activity and stability towards ethanol electrooxidation. Energy and Environmental Science, 2010, 3, 1307.	15.6	191
13	Ratiometric Fluorescence Detection of Tyrosinase Activity and Dopamine Using Thiolate-Protected Gold Nanoclusters. Analytical Chemistry, 2015, 87, 4897-4902.	3.2	188
14	Detection of Hydrazine, Methylhydrazine, and Isoniazid by Capillary Electrophoresis with a Palladium-Modified Microdisk Array Electrode. Analytical Chemistry, 1996, 68, 3350-3353.	3.2	181
15	One-Step Preparation and Characterization of Poly(propyleneimine) Dendrimer-Protected Silver Nanoclusters. Macromolecules, 2004, 37, 7105-7108.	2.2	172
16	Introducing Ratiometric Fluorescence to MnO₂ 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.	4.0	168
17	A General Method for Transition Metal Single Atoms Anchored on Honeycombâ€Like Nitrogenâ€Doped Carbon Nanosheets. Advanced Materials, 2020, 32, e1906905.	11.1	163
18	Facile Synthesis of Highly Active PdAu Nanowire Networks as Self-Supported Electrocatalyst for Ethanol Electrooxidation. ACS Applied Materials & Interfaces, 2014, 6, 9481-9487.	4.0	162

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19	Atomic engineering of single-atom nanozymes for enzyme-like catalysis. Chemical Science, 2020, 11, 9741-9756.	3.7	157
20	Co₃O₄/Fe_{0.33}Co_{0.66}P Interface Nanowire for Enhancing Water Oxidation Catalysis at High Current Density. Advanced Materials, 2018, 30, e1803551.	11.1	150
21	Identifying Reactive Sites and Transport Limitations of Oxygen Reactions in Aprotic Lithiumâ€O₂ Batteries at the Stage of Sudden Death. Angewandte Chemie - International Edition, 2016, 55, 5201-5205.	7.2	147
22	Three-dimensional electrochemical immunosensor for sensitive detection of carcinoembryonic antigen based on monolithic and macroporous graphene foam. Biosensors and Bioelectronics, 2015, 65, 281-286.	5.3	146
23	Enzymeâ€Free Unlabeled DNA Logic Circuits Based on Toeholdâ€Mediated Strand Displacement and Split Gâ€Quadruplex Enhanced Fluorescence. Advanced Materials, 2013, 25, 2440-2444.	11.1	144
24	Enhanced Electrochemiluminescence Behavior of Goldâ€“Silver Bimetallic Nanoclusters and Its Sensing Application for Mercury(II). Analytical Chemistry, 2017, 89, 7788-7794.	3.2	136
25	One-Step Synthesis and Size Control of Dendrimer-Protected Gold Nanoparticles: A Heat-Treatment-Based Strategy. Macromolecular Rapid Communications, 2003, 24, 1024-1028.	2.0	131
26	Assembly of Alternating Polycation and DNA Multilayer Films by Electrostatic Layer-by-Layer Adsorption. Biomacromolecules, 2001, 2, 463-468.	2.6	127
27	Gâ€Quadruplex Aptamers with Peroxidaseâ€Like DNAzyme Functions: Which Is the Best and How Does it Work?. Chemistry - an Asian Journal, 2009, 4, 918-922.	1.7	125
28	Dendritic Au/Pt and Au/PtCu Nanowires with Enhanced Electrocatalytic Activity for Methanol Electrooxidation. Small, 2014, 10, 3262-3265.	5.2	125
29	Methods to study the ionic conductivity of polymeric electrolytes using a.c. impedance spectroscopy. Journal of Solid State Electrochemistry, 2001, 6, 8-15.	1.2	119
30	One-step electrochemical approach to the synthesis of Graphene/MnO2 nanowall hybrids. Nano Research, 2011, 4, 648-657.	5.8	115
31	Large scale, templateless, surfactantless route to rapid synthesis of uniform poly(o-phenylenediamine) nanobelts. Chemical Communications, 2004, , 1182.	2.2	111
32	A new approach to light up DNA/Ag nanocluster-based beacons for bioanalysis. Chemical Science, 2013, 4, 4004.	3.7	109
33	Gold Nanoparticles as Fine Tuners of Electrochemical Properties of the Electrode/Solution Interface. Langmuir, 2002, 18, 9947-9952.	1.6	107
34	Hybrid of g-C₃N₄ Assisted Metalâ€Organic Frameworks and Their Derived High-Efficiency Oxygen Reduction Electrocatalyst in the Whole pH Range. ACS Applied Materials & Interfaces, 2016, 8, 35281-35288.	4.0	106
35	Noble-metal-free Co₃S₄â€“S/G porous hybrids as an efficient electrocatalyst for oxygen reduction reaction. Chemical Science, 2016, 7, 4167-4173.	3.7	98
36	Highly sensitive and specific colorimetric detection of cancer cells via dual-aptamer target binding strategy. Biosensors and Bioelectronics, 2015, 73, 1-6.	5.3	97

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37	Glutathione Regulated Inner Filter Effect of MnO₂ Nanosheets on Boron Nitride Quantum Dots for Sensitive Assay. Analytical Chemistry, 2019, 91, 5762-5767.	3.2	97
38	Four-Way Junction-Driven DNA Strand Displacement and Its Application in Building Majority Logic Circuit. ACS Nano, 2013, 7, 10211-10217.	7.3	96
39	Amorphous Co₂B Grown on CoSe₂ Nanosheets as a Hybrid Catalyst for Efficient Overall Water Splitting in Alkaline Medium. ACS Applied Materials & Interfaces, 2017, 9, 39312-39317.	4.0	96
40	Colorimetric Strategy for Highly Sensitive and Selective Simultaneous Detection of Histidine and Cysteine Based on G-Quadruplex-Cu(II) Metalloenzyme. Analytical Chemistry, 2016, 88, 2899-2903.	3.2	95
41	Boron Nitride Quantum Dots as Efficient Coreactant for Enhanced Electrochemiluminescence of Ruthenium(II) Tris(2,2â€²-bipyridyl). Analytical Chemistry, 2018, 90, 2141-2147.	3.2	94
42	Facile synthesis of PtCu nanowires with enhanced electrocatalytic activity. Nano Research, 2015, 8, 2308-2316.	5.8	93
43	A Nanoscale Multichannel Closed Bipolar Electrode Array for Electrochemiluminescence Sensing Platform. Analytical Chemistry, 2016, 88, 945-951.	3.2	92
44	Engineering the bioelectrochemical interface using functional nanomaterials and microchip technique toward sensitive and portable electrochemical biosensors. Biosensors and Bioelectronics, 2016, 76, 80-90.	5.3	91
45	An efficient CoS₂/CoSe₂ hybrid catalyst for electrocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2017, 5, 2504-2507.	5.2	91
46	Identifying Luminol Electrochemiluminescence at the Cathode via Single-Atom Catalysts Tuned Oxygen Reduction Reaction. Journal of the American Chemical Society, 2022, 144, 7741-7749.	6.6	90
47	Recent advances in new luminescent nanomaterials for electrochemiluminescence sensors. RSC Advances, 2012, 2, 3579.	1.7	84
48	Recent Advances Based on Nanomaterials as Electrochemiluminescence Probes for the Fabrication of Sensors. ChemElectroChem, 2017, 4, 1639-1650.	1.7	84
49	Trimetallic PtCuCo hollow nanospheres with a dendritic shell for enhanced electrocatalytic activity toward ethylene glycol electrooxidation. Nanoscale, 2015, 7, 9985-9989.	2.8	80
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, 3834-3840.	2.8	79
51	Polydopamine Nanotubes as an Effective Fluorescent Quencher for Highly Sensitive and Selective Detection of Biomolecules Assisted with Exonuclease III Amplification. Analytical Chemistry, 2016, 88, 9158-9165.	3.2	78
52	High-Sensitivity Electrochemiluminescence Probe with Molybdenum Carbides as Nanocarriers for Î±-Fetoprotein Sensing. Analytical Chemistry, 2017, 89, 12108-12114.	3.2	77
53	A label-free fluorescent molecular beacon based on DNA-Ag nanoclusters for the construction of versatile Biosensors. Biosensors and Bioelectronics, 2015, 74, 318-321.	5.3	75
54	Recent Advancements in Transition Metalâ€Nitrogenâ€Carbon Catalysts for Oxygen Reduction Reaction. Electroanalysis, 2018, 30, 1217-1228.	1.5	73

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55	One-step synthesis of well-structured NiSâ€“Ni₂P₂S₆ nanosheets on nickel foam for efficient overall water splitting. Journal of Materials Chemistry A, 2017, 5, 22131-22136.	5.2	72
56	A Novel Urchinlike Gold/Platinum Hybrid Nanocatalyst with Controlled Size. Journal of Physical Chemistry C, 2008, 112, 13510-13515.	1.5	71
57	Exploring the Dynamic Functional Landscape of Adenylate Kinase Modulated by Substrates. Journal of Chemical Theory and Computation, 2013, 9, 84-95.	2.3	70
58	How to split a G-quadruplex for DNA detection: new insight into the formation of DNA split G-quadruplex. Chemical Science, 2015, 6, 4822-4827.	3.7	69
59	Propelling DNA Computing with Materialsâ€™ Power: Recent Advancements in Innovative DNA Logic Computing Systems and Smart Bioâ€Applications. Advanced Science, 2020, 7, 2001766.	5.6	69
60	Unlocking the energy capabilities of micron-sized LiFePO4. Nature Communications, 2015, 6, 7898.	5.8	65
61	DNA-based visual majority logic gate with one-vote veto function. Chemical Science, 2015, 6, 1973-1978.	3.7	64
62	Simultaneous Determination of Tramadol and Lidocaine in Urine by End-column Capillary Electrophoresis with Electrochemiluminescence Detection. Electroanalysis, 2002, 14, 1571-1576.	1.5	63
63	Selfâ€Crosslink Method for a Straightforward Synthesis of Poly(Vinyl Alcohol)â€Based Aerogel Assisted by Carbon Nanotube. Advanced Functional Materials, 2017, 27, 1604423.	7.8	61
64	Bipolar Electrodes with 100% Current Efficiency for Sensors. ACS Sensors, 2017, 2, 320-326.	4.0	61
65	Synthesis of PtNPs/AQ/Ru(bpy)32+Colloid and Its Application as a Sensitive Solid-State Electrochemiluminescence Sensor Material. Journal of Physical Chemistry B, 2006, 110, 21662-21666.	1.2	58
66	Synthesis of phospholipid monolayer membrane functionalized graphene for drug delivery. Journal of Materials Chemistry, 2012, 22, 20634.	6.7	58
67	Ion Channel Behavior of Supported Bilayer Lipid Membranes on a Glassy Carbon Electrode. Analytical Chemistry, 2000, 72, 6030-6033.	3.2	57
68	One-pot synthesis of monodispersed ZnS nanospheres with high antibacterial activity. Journal of Materials Chemistry, 2010, 20, 9215.	6.7	57
69	Enhanced-quantum yield sulfur/nitrogen co-doped fluorescent carbon nanodots produced from biomass Enteromorpha prolifera: synthesis, posttreatment, applications and mechanism study. Scientific Reports, 2017, 7, 4499.	1.6	57
70	Functionalized Graphene@Gold Nanostar/Lipid for Pancreatic Cancer Gene and Photothermal Synergistic Therapy under Photoacoustic/Photothermal Imaging Dualâ€Modal Guidance. Small, 2020, 16, e2003707.	5.2	57
71	Cationic-Polyelectrolyte-Modified Fluorescent DNAâ€“Silver Nanoclusters with Enhanced Emission and Higher Stability for Rapid Bioimaging. Analytical Chemistry, 2019, 91, 2050-2057.	3.2	55
72	Highâ€Sensitivity Determination of Lead(II) and Cadmium(II) Based on the CNTsâ€PSS/Bi Composite Film Electrode. Electroanalysis, 2010, 22, 1682-1687.	1.5	53

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73	Implementation of half adder and half subtractor with a simple and universal DNA-based platform. NPG Asia Materials, 2013, 5, e76-e76.	3.8	53
74	A Resettable and Reprogrammable DNA-Based Security System To Identify Multiple Users with Hierarchy. ACS Nano, 2014, 8, 2796-2803.	7.3	53
75	Energetic carbon-based hybrids: green and facile synthesis from soy milk and extraordinary electrocatalytic activity towards ORR. Nanoscale, 2014, 6, 2964.	2.8	53
76	Self-Powered Bipolar Electrochromic Electrode Arrays for Direct Displaying Applications. Analytical Chemistry, 2016, 88, 2543-2547.	3.2	53
77	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.	5.2	50
78	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, 3766-3769.	2.2	50
79	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.	3.7	50
80	Carbon supported trimetallic nickelâ€“palladiumâ€“gold hollow nanoparticles with superior catalytic activity for methanol electrooxidation. Journal of Power Sources, 2015, 285, 12-15.	4.0	49
81	Cooperative Strategies for Enhancing Performance of Photothermal Therapy (PTT) Agent: Optimizing Its Photothermal Conversion and Cell Internalization Ability. Small, 2017, 13, 1603275.	5.2	49
82	Wire-on-flake heterostructured ternary Co_{0.5}Ni_{0.5}P/CC: an efficient hydrogen evolution electrocatalyst. Journal of Materials Chemistry A, 2017, 5, 982-987.	5.2	48
83	Engineering DNA Three-Way Junction with Multifunctional Moieties: Sensing Platform for Bioanalysis. Analytical Chemistry, 2015, 87, 11295-11300.	3.2	47
84	Molybdenum carbide nanotubes: a novel multifunctional material for label-free electrochemical immunosensing. Nanoscale, 2016, 8, 15303-15308.	2.8	46
85	Facile fabrication of PdRuPt nanowire networks with tunable compositions as efficient methanol electrooxidation catalysts. Nano Research, 2018, 11, 4348-4355.	5.8	45
86	Point-of-Care Diagnoses: Flexible Patterning Technique for Self-Powered Wearable Sensors. Analytical Chemistry, 2018, 90, 11780-11784.	3.2	44
87	Lighting Up the Gold Nanoclusters via Hostâ€“Guest Recognition for High-Efficiency Antibacterial Performance and Imaging. ACS Applied Materials & Interfaces, 2019, 11, 36831-36838.	4.0	44
88	Formation ofo-Phenylenediamine Oligomers and their Self-Assembly into One-Dimensional Structures in Aqueous Medium. Macromolecular Rapid Communications, 2005, 26, 1504-1508.	2.0	43
89	Label-free electrochemical aptasensor constructed by layer-by-layer technology for sensitive and selective detection of cancer cells. Analytica Chimica Acta, 2015, 882, 32-37.	2.6	43
90	Recent advances in the synthesis and application of copper nanomaterials based on various DNA scaffolds. Biosensors and Bioelectronics, 2019, 132, 333-342.	5.3	43

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91	Boosted Oxygen Evolution Reactivity via Atomic Iron Doping in Cobalt Carbonate Hydroxide Hydrate. ACS Applied Materials & Interfaces, 2020, 12, 40220-40228.	4.0	42
92	Illuminating Diverse Concomitant DNA Logic Gates and Concatenated Circuits with Hairpin DNAâ€Templated Silver Nanoclusters as Universal Dualâ€Output Generators. Advanced Materials, 2020, 32, e1908480.	11.1	41
93	The use of chemically modified electrodes for liquid chromatography and flow-injection analysis. Electroanalysis, 1991, 3, 1-11.	1.5	40
94	Electrocatalytic oxidation and amperometric determination of sulfhydryl compounds at a copper hexacyanoferrate film glassy carbon electrode in liquid chromatography. Electroanalysis, 1994, 6, 29-35.	1.5	40
95	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.	5.2	40
96	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.	4.0	40
97	Determination of Reserpine in Urine by Capillary Electrophoresis with Electrochemiluminescence Detection. Electroanalysis, 2004, 16, 169-174.	1.5	39
98	Positively charged graphene/Fe3O4/polyethylenimine with enhanced drug loading and cellular uptake for magnetic resonance imaging and magnet-responsive cancer therapy. Nano Research, 2017, 10, 2280-2295.	5.8	39
99	Self-supported ternary Co0.5Mn0.5P/carbon cloth (CC) as a high-performance hydrogen evolution electrocatalyst. Nano Research, 2017, 10, 1001-1009.	5.8	39
100	An intelligent universal system yields double results with half the effort for engineering a DNA â€œContrary Logic Pairsâ€•library and various DNA combinatorial logic circuits. Materials Horizons, 2017, 4, 924-931.	6.4	39
101	Ultrathin nanodendrite surrounded PtRuNi nanoframes as efficient catalysts for methanol electrooxidation. Journal of Materials Chemistry A, 2019, 7, 2547-2552.	5.2	39
102	Electrochemical Detection of Methimazole by Capillary Electrophoresis at a Carbon Fiber Microdisk Electrode. Electroanalysis, 2005, 17, 1675-1680.	1.5	38
103	Portable and Visual Electrochemical Sensor Based on the Bipolar Light Emitting Diode Electrode. Analytical Chemistry, 2015, 87, 4612-4616.	3.2	38
104	Facile synthesis of optical pH-sensitive molybdenum disulfide quantum dots. Nanoscale, 2016, 8, 15152-15157.	2.8	38
105	Electrospun Ruâ€“RuO₂/MoO₃carbon nanorods with multi-active components: a Pt-like catalyst for the hydrogen evolution reaction. Chemical Communications, 2020, 56, 739-742.	2.2	38
106	Tackling Grand Challenges of the 21st Century with Electroanalytical Chemistry. Journal of the American Chemical Society, 2018, 140, 10629-10638.	6.6	37
107	Sensitive and Multiplexed SERS Nanotags for the Detection of Cytokines Secreted by Lymphoma. ACS Sensors, 2019, 4, 2507-2514.	4.0	37
108	Fabrication and characterization of SERS-active silver clusters on glassy carbon. Journal of Raman Spectroscopy, 2007, 38, 515-521.	1.2	36

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109	Electrocatalytic hydrogen evolution using the MS₂@MoS₂/rGO (M = Fe or Ni) hybrid catalyst. Chemical Communications, 2016, 52, 11795-11798.	2.2	36
110	Designing metal-contained enzyme mimics for prodrug activation. Advanced Drug Delivery Reviews, 2017, 118, 78-93.	6.6	36
111	Photoelectrochemical Characteristics Of Î±-Fe2O3 Nanocrystalline Semiconductor Thin Film. Journal of Nanoparticle Research, 2000, 2, 191-198.	0.8	35
112	Scalable synthesis of Cu-based ultrathin nanowire networks and their electrocatalytic properties. Nanoscale, 2016, 8, 4927-4932.	2.8	35
113	Bipolar Electrode Based Reversible Fluorescence Switch Using Prussian Blue/Au Nanoclusters Nanocomposite Film. Analytical Chemistry, 2017, 89, 3867-3872.	3.2	35
114	Lipidâ€Coated Gold Nanoparticles Functionalized by Folic Acid as Gene Vectors for Targeted Gene Delivery inâ€…vitro and inâ€…vivo. ChemMedChem, 2017, 12, 1768-1775.	1.6	34
115	DNA-based advanced logic circuits for nonarithmetic information processing. NPG Asia Materials, 2015, 7, e166-e166.	3.8	33
116	Traditional Herbal Medicine-Derived Sulforaphene LFS-01 Reverses Colitis in Mice by Selectively Altering the Gut Microbiota and Promoting Intestinal Gamma-Delta T Cells. Frontiers in Pharmacology, 2017, 8, 959.	1.6	33
117	Oriented polyoxometalateâ€“polycation multilayers on a carbon substrate. Journal of Materials Chemistry, 2000, 10, 2727-2733.	6.7	32
118	RuTe/M (M = Pt, Pd) nanoparticle nanotubes with enhanced electrocatalytic activity. Journal of Materials Chemistry A, 2015, 3, 13642-13647.	5.2	32
119	Implementation of Arithmetic Functions on a Simple and Universal Molecular Beacon Platform. Advanced Science, 2015, 2, 1500054.	5.6	32
120	Multifunctional Graphene/DNA-Based Platform for the Construction of Enzyme-Free Ternary Logic Gates. ACS Applied Materials & Interfaces, 2016, 8, 30287-30293.	4.0	32
121	Analytical potential of gold nanoparticles in functional aptamer-based biosensors. Bioanalytical Reviews, 2010, 1, 187-208.	0.1	31
122	Multi-walled carbon nanotube supported Pd nanocubes with enhanced electrocatalytic activity. Journal of Materials Chemistry A, 2016, 4, 4485-4489.	5.2	31
123	Theoretical designing and experimental fabricating unique quadruple multimetallic phosphides with remarkable hydrogen evolution performance. Nano Energy, 2017, 34, 421-427.	8.2	31
124	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.	5.2	31
125	Rapid synthesis of Co₃O₄ nanosheet arrays on Ni foam by in situ electrochemical oxidization of air-plasma engraved Co(OH)₂ for efficient oxygen evolution. Chemical Communications, 2018, 54, 12698-12701.	2.2	31
126	Chemiluminescence of CsPbBr₃ Perovskite Nanocrystal on the Hexane/Water Interface. Analytical Chemistry, 2018, 90, 11651-11657.	3.2	31

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127	A simple, label-free, electrochemical DNA parity generator/checker for error detection during data transmission based on â€œaptamer-nanoclawâ€•modulated protein steric hindrance. Chemical Science, 2018, 9, 6981-6987.	3.7	31
128	A DNAâ€Based and Electrochemically Transduced Keypad Lock System with Reset Function. Chemistry - A European Journal, 2012, 18, 14939-14942.	1.7	30
129	PolyUbiquitin Chain Linkage Topology Selects the Functions from the Underlying Binding Landscape. PLoS Computational Biology, 2014, 10, e1003691.	1.5	30
130	Bimetallic PdRu nanosponges with a tunable composition for ethylene glycol oxidation. RSC Advances, 2016, 6, 12486-12490.	1.7	30
131	Enhanced surface plasmon resonance immunosensing using a streptavidinâ€“biotinylated protein complex. Analyst, The, 2001, 126, 4-6.	1.7	29
132	Novel Te/Pt Hybrid Nanowire with Nanoporous Surface: A Catalytically Active Nanoelectrocatalyst. Journal of Physical Chemistry C, 2010, 114, 4797-4802.	1.5	29
133	PEI/Zr 4+ -coated nanopore for selective and sensitive detection of ATP in combination with single-walled carbon nanotubes. Biosensors and Bioelectronics, 2015, 63, 287-293.	5.3	29
134	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.	5.3	29
135	Morphological and electronic modulation of NiSe nanosheet assemblies by Mo, S-codoping for an efficient hydrogen evolution reaction. Journal of Materials Chemistry A, 2017, 5, 20588-20593.	5.2	29
136	Kinetics of the CO‹sub›2‹/sub› reduction reaction in aprotic Liâ€“CO‹sub›2‹/sub› batteries: a model study. Journal of Materials Chemistry A, 2021, 9, 3290-3296.	5.2	29
137	Gram-Scale, Low-Cost, Rapid Fabrication of High-Quality Width-Controlled One-Dimensional Conducting Polymer Nanobelts. Chemistry of Materials, 2007, 19, 4621-4623.	3.2	28
138	Electrochromic sensing platform based on steric hindrance effects for CEA detection. Analyst, The, 2016, 141, 3985-3988.	1.7	28
139	Upconversion-chameleon-driven DNA computing: the DNA-unlocked inner-filter-effect (DU-IFE) for operating a multicolor upconversion luminescent DNA logic library and Its biosensing application. Materials Horizons, 2019, 6, 375-384.	6.4	28
140	Electrocatalytic oxidation and flow detection of hydrazine compounds in liquid chromatography at a vitamin B-12 adsorbed glassy carbon electrode. Electroanalysis, 1992, 4, 473-479.	1.5	27
141	Determination of Hydroxylamine by Capillary Electrophoresis-Electrochemical Detection with a Palladium-Particle Modified Carbon Fiber Microdisk Array Electrode. Analytical Letters, 1997, 30, 1025-1036.	1.0	27
142	Mimetic biomembraneâ€“AuNPsâ€“graphene hybrid as matrix for enzyme immobilization and bioelectrocatalysis study. Talanta, 2015, 143, 438-441.	2.9	27
143	Investigation of an eco-friendly aerogel as a substrate for the immobilization of MoS2 nanoflowers for removal of mercury species from aqueous solutions. Journal of Colloid and Interface Science, 2018, 525, 251-259.	5.0	27
144	Universal Platform for Ratiometric Sensing Based on Catalytically Induced Inner-Filter Effect by Cu‹sup›2+‹/sup›. Analytical Chemistry, 2020, 92, 16066-16071.	3.2	27

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145	Rational Construction of Rutheniumâ€Cobalt Oxides Heterostructure in ZIFsâ€Derived Doubleâ€Shelled Hollow Polyhedrons for Efficient Hydrogen Evolution Reaction. Small, 2021, 17, e2100998.	5.2	27
146	In Situ Formed Catalytic Interface for Boosting Chemiluminescence. Analytical Chemistry, 2020, 92, 10108-10113.	3.2	26
147	Photosensitization of TiO2 nanoparticulate thin film electrodes by CdS nanoparticles. Journal of Solid State Electrochemistry, 2001, 5, 562-567.	1.2	25
148	Interdigited Phospholipid/Alkanethiol Bilayers Assembled on APTMS-Supported Gold Colloid Electrodes. Electroanalysis, 2004, 16, 127-131.	1.5	25
149	Thermodynamic and kinetic specificities of ligand binding. Chemical Science, 2013, 4, 2387.	3.7	24
150	Ultrafine transition metal dichalcogenide nanodots prepared by polyvinylpyrrolidone-assisted liquid phase exfoliation. Journal of Materials Chemistry B, 2017, 5, 2609-2615.	2.9	24
151	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.	5.8	24
152	Construction of surface charge-controlled reduced graphene oxide-loaded Fe 3 O 4 and Pt nanohybrid for peroxidase mimic with enhanced catalytic activity. Analytica Chimica Acta, 2018, 1014, 77-84.	2.6	24
153	Molecular Characterization of Beef Liver Catalase by Scanning Tunneling Microscopy. Electroanalysis, 1998, 10, 738-746.	1.5	23
154	The Potential and Flux Landscape Theory of Ecology. PLoS ONE, 2014, 9, e86746.	1.1	23
155	A Renewable Display Platform Based on the Bipolar Electrochromic Electrode. ChemElectroChem, 2016, 3, 383-386.	1.7	23
156	Integration of DNA and graphene oxide for the construction of various advanced logic circuits. Nanoscale, 2016, 8, 17524-17531.	2.8	23
157	Lighting Up the Thioflavin T by Parallel-Stranded TG(GA)n DNA Homoduplexes. ACS Sensors, 2018, 3, 1118-1125.	4.0	23
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