

Erkang Wang

List of Publications by Year in descending order

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274
papers

18,307
citations

19657

61
h-index

15266

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. <i>Chemical Society Reviews</i> , 2013, 42, 6060.	38.1	3,000
2	Transition-Metal (Co, Ni, and Fe)-Based Electrocatalysts for the Water Oxidation Reaction. <i>Advanced Materials</i> , 2016, 28, 9266-9291.	21.0	1,392
3	Metal nanoclusters: New fluorescent probes for sensors and bioimaging. <i>Nano Today</i> , 2014, 9, 132-157.	11.9	839
4	Nanozyme: An emerging alternative to natural enzyme for biosensing and immunoassay. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 105, 218-224.	11.4	513
5	Potassium-Lead-Switched G-Quadruplexes: A New Class of DNA Logic Gates. <i>Journal of the American Chemical Society</i> , 2009, 131, 15082-15083.	13.7	373
6	Monodisperse mesoporous superparamagnetic single-crystal magnetite nanoparticles for drug delivery. <i>Biomaterials</i> , 2009, 30, 1881-1889.	11.4	372
7	A Lead(II)-Driven DNA Molecular Device for Turn-On Fluorescence Detection of Lead(II) Ion with High Selectivity and Sensitivity. <i>Journal of the American Chemical Society</i> , 2010, 132, 13156-13157.	13.7	353
8	Nanozymes: A clear definition with fuzzy edges. <i>Nano Today</i> , 2021, 40, 101269.	11.9	332
9	Bimetallic PdPt nanowire networks with enhanced electrocatalytic activity for ethylene glycol and glycerol oxidation. <i>Energy and Environmental Science</i> , 2015, 8, 2910-2915.	30.8	283
10	A Cake-Style CoS ₂ @MoS ₂ /RGO Hybrid Catalyst for Efficient Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2017, 27, 1602699.	14.9	231
11	Emerging Dual-Atomic-Site Catalysts for Efficient Energy Catalysis. <i>Advanced Materials</i> , 2021, 33, e2102576.	21.0	226
12	Pt/Pd bimetallic nanotubes with petal-like surfaces for enhanced catalytic activity and stability towards ethanol electrooxidation. <i>Energy and Environmental Science</i> , 2010, 3, 1307.	30.8	191
13	Ratiometric Fluorescence Detection of Tyrosinase Activity and Dopamine Using Thiolate-Protected Gold Nanoclusters. <i>Analytical Chemistry</i> , 2015, 87, 4897-4902.	6.5	188
14	Detection of Hydrazine, Methylhydrazine, and Isoniazid by Capillary Electrophoresis with a Palladium-Modified Microdisk Array Electrode. <i>Analytical Chemistry</i> , 1996, 68, 3350-3353.	6.5	181
15	One-Step Preparation and Characterization of Poly(propyleneimine) Dendrimer-Protected Silver Nanoclusters. <i>Macromolecules</i> , 2004, 37, 7105-7108.	4.8	172
16	Introducing Ratiometric Fluorescence to MnO ₂ Nanosheet-Based Biosensing: A Simple, Label-Free Ratiometric Fluorescent Sensor Programmed by Cascade Logic Circuit for Ultrasensitive GSH Detection. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 25870-25877.	8.0	168
17	A General Method for Transition Metal Single Atoms Anchored on Honeycomb-Like Nitrogen-Doped Carbon Nanosheets. <i>Advanced Materials</i> , 2020, 32, e1906905.	21.0	163
18	Facile Synthesis of Highly Active PdAu Nanowire Networks as Self-Supported Electrocatalyst for Ethanol Electrooxidation. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 9481-9487.	8.0	162

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19	Atomic engineering of single-atom nanozymes for enzyme-like catalysis. <i>Chemical Science</i> , 2020, 11, 9741-9756.	7.4	157
20	Co ₃ O ₄ /Fe _{0.33} Co _{0.66} P Interface Nanowire for Enhancing Water Oxidation Catalysis at High Current Density. <i>Advanced Materials</i> , 2018, 30, e1803551.	21.0	150
21	Identifying Reactive Sites and Transport Limitations of Oxygen Reactions in Aprotic Lithium-O ₂ Batteries at the Stage of Sudden Death. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5201-5205.	13.8	147
22	Three-dimensional electrochemical immunosensor for sensitive detection of carcinoembryonic antigen based on monolithic and macroporous graphene foam. <i>Biosensors and Bioelectronics</i> , 2015, 65, 281-286.	10.1	146
23	Enzyme-Free Unlabeled DNA Logic Circuits Based on Toehold-Mediated Strand Displacement and Split G-Quadruplex Enhanced Fluorescence. <i>Advanced Materials</i> , 2013, 25, 2440-2444.	21.0	144
24	Enhanced Electrochemiluminescence Behavior of Gold-Silver Bimetallic Nanoclusters and Its Sensing Application for Mercury(II). <i>Analytical Chemistry</i> , 2017, 89, 7788-7794.	6.5	136
25	One-Step Synthesis and Size Control of Dendrimer-Protected Gold Nanoparticles: A Heat-Treatment-Based Strategy. <i>Macromolecular Rapid Communications</i> , 2003, 24, 1024-1028.	3.9	131
26	Assembly of Alternating Polycation and DNA Multilayer Films by Electrostatic Layer-by-Layer Adsorption. <i>Biomacromolecules</i> , 2001, 2, 463-468.	5.4	127
27	G-Quadruplex Aptamers with Peroxidase-Like DNAzyme Functions: Which Is the Best and How Does it Work?. <i>Chemistry - an Asian Journal</i> , 2009, 4, 918-922.	3.3	125
28	Dendritic Au/Pt and Au/PtCu Nanowires with Enhanced Electrocatalytic Activity for Methanol Electrooxidation. <i>Small</i> , 2014, 10, 3262-3265.	10.0	125
29	Methods to study the ionic conductivity of polymeric electrolytes using a.c. impedance spectroscopy. <i>Journal of Solid State Electrochemistry</i> , 2001, 6, 8-15.	2.5	119
30	One-step electrochemical approach to the synthesis of Graphene/MnO ₂ nanowall hybrids. <i>Nano Research</i> , 2011, 4, 648-657.	10.4	115
31	Large scale, templateless, surfactantless route to rapid synthesis of uniform poly(o-phenylenediamine) nanobelts. <i>Chemical Communications</i> , 2004, , 1182.	4.1	111
32	A new approach to light up DNA/Ag nanocluster-based beacons for bioanalysis. <i>Chemical Science</i> , 2013, 4, 4004.	7.4	109
33	Gold Nanoparticles as Fine Tuners of Electrochemical Properties of the Electrode/Solution Interface. <i>Langmuir</i> , 2002, 18, 9947-9952.	3.5	107
34	Hybrid of g-C ₃ N ₄ Assisted Metal-Organic Frameworks and Their Derived High-Efficiency Oxygen Reduction Electrocatalyst in the Whole pH Range. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 35281-35288.	8.0	106
35	Noble-metal-free Co ₃ S ₄ -S/G porous hybrids as an efficient electrocatalyst for oxygen reduction reaction. <i>Chemical Science</i> , 2016, 7, 4167-4173.	7.4	98
36	Highly sensitive and specific colorimetric detection of cancer cells via dual-aptamer target binding strategy. <i>Biosensors and Bioelectronics</i> , 2015, 73, 1-6.	10.1	97

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37	Glutathione Regulated Inner Filter Effect of MnO ₂ Nanosheets on Boron Nitride Quantum Dots for Sensitive Assay. <i>Analytical Chemistry</i> , 2019, 91, 5762-5767.	6.5	97
38	Four-Way Junction-Driven DNA Strand Displacement and Its Application in Building Majority Logic Circuit. <i>ACS Nano</i> , 2013, 7, 10211-10217.	14.6	96
39	Amorphous Co ₂ B Grown on CoSe ₂ Nanosheets as a Hybrid Catalyst for Efficient Overall Water Splitting in Alkaline Medium. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 39312-39317.	8.0	96
40	Colorimetric Strategy for Highly Sensitive and Selective Simultaneous Detection of Histidine and Cysteine Based on G-Quadruplex-Cu(II) Metalloenzyme. <i>Analytical Chemistry</i> , 2016, 88, 2899-2903.	6.5	95
41	Boron Nitride Quantum Dots as Efficient Coreactant for Enhanced Electrochemiluminescence of Ruthenium(II) Tris(2,2'-bipyridyl). <i>Analytical Chemistry</i> , 2018, 90, 2141-2147.	6.5	94
42	Facile synthesis of PtCu nanowires with enhanced electrocatalytic activity. <i>Nano Research</i> , 2015, 8, 2308-2316.	10.4	93
43	A Nanoscale Multichannel Closed Bipolar Electrode Array for Electrochemiluminescence Sensing Platform. <i>Analytical Chemistry</i> , 2016, 88, 945-951.	6.5	92
44	Engineering the bioelectrochemical interface using functional nanomaterials and microchip technique toward sensitive and portable electrochemical biosensors. <i>Biosensors and Bioelectronics</i> , 2016, 76, 80-90.	10.1	91
45	An efficient CoS ₂ /CoSe ₂ hybrid catalyst for electrocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2504-2507.	10.3	91
46	Identifying Luminol Electrochemiluminescence at the Cathode via Single-Atom Catalysts Tuned Oxygen Reduction Reaction. <i>Journal of the American Chemical Society</i> , 2022, 144, 7741-7749.	13.7	90
47	Recent advances in new luminescent nanomaterials for electrochemiluminescence sensors. <i>RSC Advances</i> , 2012, 2, 3579.	3.6	84
48	Recent Advances Based on Nanomaterials as Electrochemiluminescence Probes for the Fabrication of Sensors. <i>ChemElectroChem</i> , 2017, 4, 1639-1650.	3.4	84
49	Trimetallic PtCuCo hollow nanospheres with a dendritic shell for enhanced electrocatalytic activity toward ethylene glycol electrooxidation. <i>Nanoscale</i> , 2015, 7, 9985-9989.	5.6	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. <i>Nanoscale</i> , 2016, 8, 3834-3840.	5.6	79
51	Polydopamine Nanotubes as an Effective Fluorescent Quencher for Highly Sensitive and Selective Detection of Biomolecules Assisted with Exonuclease III Amplification. <i>Analytical Chemistry</i> , 2016, 88, 9158-9165.	6.5	78
52	High-Sensitivity Electrochemiluminescence Probe with Molybdenum Carbides as Nanocarriers for I±-Fetoprotein Sensing. <i>Analytical Chemistry</i> , 2017, 89, 12108-12114.	6.5	77
53	A label-free fluorescent molecular beacon based on DNA-Ag nanoclusters for the construction of versatile Biosensors. <i>Biosensors and Bioelectronics</i> , 2015, 74, 318-321.	10.1	75
54	Recent Advancements in Transition Metal-Nitrogen-Carbon Catalysts for Oxygen Reduction Reaction. <i>Electroanalysis</i> , 2018, 30, 1217-1228.	2.9	73

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55	One-step synthesis of well-structured Ni ₂ P ₂ S ₆ nanosheets on nickel foam for efficient overall water splitting. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22131-22136.	10.3	72
56	A Novel Urchinlike Gold/Platinum Hybrid Nanocatalyst with Controlled Size. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13510-13515.	3.1	71
57	Exploring the Dynamic Functional Landscape of Adenylate Kinase Modulated by Substrates. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 84-95.	5.3	70
58	How to split a G-quadruplex for DNA detection: new insight into the formation of DNA split G-quadruplex. <i>Chemical Science</i> , 2015, 6, 4822-4827.	7.4	69
59	Propelling DNA Computing with Materials™ Power: Recent Advancements in Innovative DNA Logic Computing Systems and Smart BioApplications. <i>Advanced Science</i> , 2020, 7, 2001766.	11.2	69
60	Unlocking the energy capabilities of micron-sized LiFePO ₄ . <i>Nature Communications</i> , 2015, 6, 7898.	12.8	65
61	DNA-based visual majority logic gate with one-vote veto function. <i>Chemical Science</i> , 2015, 6, 1973-1978.	7.4	64
62	Simultaneous Determination of Tramadol and Lidocaine in Urine by End-column Capillary Electrophoresis with Electrochemiluminescence Detection. <i>Electroanalysis</i> , 2002, 14, 1571-1576.	2.9	63
63	Self-Crosslink Method for a Straightforward Synthesis of Poly(Vinyl Alcohol)-Based Aerogel Assisted by Carbon Nanotube. <i>Advanced Functional Materials</i> , 2017, 27, 1604423.	14.9	61
64	Bipolar Electrodes with 100% Current Efficiency for Sensors. <i>ACS Sensors</i> , 2017, 2, 320-326.	7.8	61
65	Synthesis of PtNPs/AQ/Ru(bpy) ₃ ²⁺ Colloid and Its Application as a Sensitive Solid-State Electrochemiluminescence Sensor Material. <i>Journal of Physical Chemistry B</i> , 2006, 110, 21662-21666.	2.6	58
66	Synthesis of phospholipid monolayer membrane functionalized graphene for drug delivery. <i>Journal of Materials Chemistry</i> , 2012, 22, 20634.	6.7	58
67	Ion Channel Behavior of Supported Bilayer Lipid Membranes on a Glassy Carbon Electrode. <i>Analytical Chemistry</i> , 2000, 72, 6030-6033.	6.5	57
68	One-pot synthesis of monodispersed ZnS nanospheres with high antibacterial activity. <i>Journal of Materials Chemistry</i> , 2010, 20, 9215.	6.7	57
69	Enhanced-quantum yield sulfur/nitrogen co-doped fluorescent carbon nanodots produced from biomass <i>Enteromorpha prolifera</i> : synthesis, posttreatment, applications and mechanism study. <i>Scientific Reports</i> , 2017, 7, 4499.	3.3	57
70	Functionalized Graphene@Gold Nanostar/Lipid for Pancreatic Cancer Gene and Photothermal Synergistic Therapy under Photoacoustic/Photothermal Imaging Dual-Modal Guidance. <i>Small</i> , 2020, 16, e2003707.	10.0	57
71	Cationic-Polyelectrolyte-Modified Fluorescent DNA-Silver Nanoclusters with Enhanced Emission and Higher Stability for Rapid Bioimaging. <i>Analytical Chemistry</i> , 2019, 91, 2050-2057.	6.5	55
72	High-Sensitivity Determination of Lead(II) and Cadmium(II) Based on the CNTs-PSS/Bi Composite Film Electrode. <i>Electroanalysis</i> , 2010, 22, 1682-1687.	2.9	53

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73	Implementation of half adder and half subtractor with a simple and universal DNA-based platform. <i>NPG Asia Materials</i> , 2013, 5, e76-e76.	7.9	53
74	A Resettable and Reprogrammable DNA-Based Security System To Identify Multiple Users with Hierarchy. <i>ACS Nano</i> , 2014, 8, 2796-2803.	14.6	53
75	Energetic carbon-based hybrids: green and facile synthesis from soy milk and extraordinary electrocatalytic activity towards ORR. <i>Nanoscale</i> , 2014, 6, 2964.	5.6	53
76	Self-Powered Bipolar Electrochromic Electrode Arrays for Direct Displaying Applications. <i>Analytical Chemistry</i> , 2016, 88, 2543-2547.	6.5	53
77	Iron and nitrogen co-doped hierarchical porous graphitic carbon for a high-efficiency oxygen reduction reaction in a wide range of pH. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14364-14370.	10.3	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. <i>Chemical Communications</i> , 2016, 52, 3766-3769.	4.1	50
79	A DNA-based parity generator/checker for error detection through data transmission with visual readout and an output-correction function. <i>Chemical Science</i> , 2017, 8, 1888-1895.	7.4	50
80	Carbon supported trimetallic nickel-palladium-gold hollow nanoparticles with superior catalytic activity for methanol electrooxidation. <i>Journal of Power Sources</i> , 2015, 285, 12-15.	7.8	49
81	Cooperative Strategies for Enhancing Performance of Photothermal Therapy (PTT) Agent: Optimizing Its Photothermal Conversion and Cell Internalization Ability. <i>Small</i> , 2017, 13, 1603275.	10.0	49
82	Wire-on-flake heterostructured ternary Co _{0.5} Ni _{0.5} P/CC: an efficient hydrogen evolution electrocatalyst. <i>Journal of Materials Chemistry A</i> , 2017, 5, 982-987.	10.3	48
83	Engineering DNA Three-Way Junction with Multifunctional Moieties: Sensing Platform for Bioanalysis. <i>Analytical Chemistry</i> , 2015, 87, 11295-11300.	6.5	47
84	Molybdenum carbide nanotubes: a novel multifunctional material for label-free electrochemical immunosensing. <i>Nanoscale</i> , 2016, 8, 15303-15308.	5.6	46
85	Facile fabrication of PdRuPt nanowire networks with tunable compositions as efficient methanol electrooxidation catalysts. <i>Nano Research</i> , 2018, 11, 4348-4355.	10.4	45
86	Point-of-Care Diagnoses: Flexible Patterning Technique for Self-Powered Wearable Sensors. <i>Analytical Chemistry</i> , 2018, 90, 11780-11784.	6.5	44
87	Lighting Up the Gold Nanoclusters via Host-Guest Recognition for High-Efficiency Antibacterial Performance and Imaging. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 36831-36838.	8.0	44
88	Formation of o-Phenylenediamine Oligomers and their Self-Assembly into One-Dimensional Structures in Aqueous Medium. <i>Macromolecular Rapid Communications</i> , 2005, 26, 1504-1508.	3.9	43
89	Label-free electrochemical aptasensor constructed by layer-by-layer technology for sensitive and selective detection of cancer cells. <i>Analytica Chimica Acta</i> , 2015, 882, 32-37.	5.4	43
90	Recent advances in the synthesis and application of copper nanomaterials based on various DNA scaffolds. <i>Biosensors and Bioelectronics</i> , 2019, 132, 333-342.	10.1	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.	8.0	42
92	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.	21.0	41
93	The use of chemically modified electrodes for liquid chromatography and flow-injection analysis. Electroanalysis, 1991, 3, 1-11.	2.9	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.	2.9	40
95	Functionalized graphene/Fe ₃ O ₄ supported AuPt alloy as a magnetic, stable and recyclable catalyst for a catalytic reduction reaction. Journal of Materials Chemistry A, 2015, 3, 8793-8799.	10.3	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.	8.0	40
97	Determination of Reserpine in Urine by Capillary Electrophoresis with Electrochemiluminescence Detection. Electroanalysis, 2004, 16, 169-174.	2.9	39
98	Positively charged graphene/Fe ₃ O ₄ /polyethylenimine with enhanced drug loading and cellular uptake for magnetic resonance imaging and magnet-responsive cancer therapy. Nano Research, 2017, 10, 2280-2295.	10.4	39
99	Self-supported ternary Co _{0.5} Mn _{0.5} P/carbon cloth (CC) as a high-performance hydrogen evolution electrocatalyst. Nano Research, 2017, 10, 1001-1009.	10.4	39
100	An intelligent universal system yields double results with half the effort for engineering a DNA-Contrary Logic Pairs-library and various DNA combinatorial logic circuits. Materials Horizons, 2017, 4, 924-931.	12.2	39
101	Ultrathin nanodendrite surrounded PtRuNi nanoframes as efficient catalysts for methanol electrooxidation. Journal of Materials Chemistry A, 2019, 7, 2547-2552.	10.3	39
102	Electrochemical Detection of Methimazole by Capillary Electrophoresis at a Carbon Fiber Microdisk Electrode. Electroanalysis, 2005, 17, 1675-1680.	2.9	38
103	Portable and Visual Electrochemical Sensor Based on the Bipolar Light Emitting Diode Electrode. Analytical Chemistry, 2015, 87, 4612-4616.	6.5	38
104	Facile synthesis of optical pH-sensitive molybdenum disulfide quantum dots. Nanoscale, 2016, 8, 15152-15157.	5.6	38
105	Electrospun Ru ²⁺ /RuO ₂ /MoO ₃ carbon nanorods with multi-active components: a Pt-like catalyst for the hydrogen evolution reaction. Chemical Communications, 2020, 56, 739-742.	4.1	38
106	Tackling Grand Challenges of the 21st Century with Electroanalytical Chemistry. Journal of the American Chemical Society, 2018, 140, 10629-10638.	13.7	37
107	Sensitive and Multiplexed SERS Nanotags for the Detection of Cytokines Secreted by Lymphoma. ACS Sensors, 2019, 4, 2507-2514.	7.8	37
108	Fabrication and characterization of SERS-active silver clusters on glassy carbon. Journal of Raman Spectroscopy, 2007, 38, 515-521.	2.5	36

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109	Electrocatalytic hydrogen evolution using the MS ₂ @MoS ₂ /rGO (M = Fe or Ni) hybrid catalyst. <i>Chemical Communications</i> , 2016, 52, 11795-11798.	4.1	36
110	Designing metal-contained enzyme mimics for prodrug activation. <i>Advanced Drug Delivery Reviews</i> , 2017, 118, 78-93.	13.7	36
111	Photoelectrochemical Characteristics Of γ -Fe ₂ O ₃ Nanocrystalline Semiconductor Thin Film. <i>Journal of Nanoparticle Research</i> , 2000, 2, 191-198.	1.9	35
112	Scalable synthesis of Cu-based ultrathin nanowire networks and their electrocatalytic properties. <i>Nanoscale</i> , 2016, 8, 4927-4932.	5.6	35
113	Bipolar Electrode Based Reversible Fluorescence Switch Using Prussian Blue/Au Nanoclusters Nanocomposite Film. <i>Analytical Chemistry</i> , 2017, 89, 3867-3872.	6.5	35
114	Lipid-Coated Gold Nanoparticles Functionalized by Folic Acid as Gene Vectors for Targeted Gene Delivery in <i>in vitro</i> and <i>in vivo</i> . <i>ChemMedChem</i> , 2017, 12, 1768-1775.	3.2	34
115	DNA-based advanced logic circuits for nonarithmetic information processing. <i>NPG Asia Materials</i> , 2015, 7, e166-e166.	7.9	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. <i>Frontiers in Pharmacology</i> , 2017, 8, 959.	3.5	33
117	Oriented polyoxometalate polycation multilayers on a carbon substrate. <i>Journal of Materials Chemistry</i> , 2000, 10, 2727-2733.	6.7	32
118	RuTe/M (M = Pt, Pd) nanoparticle nanotubes with enhanced electrocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13642-13647.	10.3	32
119	Implementation of Arithmetic Functions on a Simple and Universal Molecular Beacon Platform. <i>Advanced Science</i> , 2015, 2, 1500054.	11.2	32
120	Multifunctional Graphene/DNA-Based Platform for the Construction of Enzyme-Free Ternary Logic Gates. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 30287-30293.	8.0	32
121	Analytical potential of gold nanoparticles in functional aptamer-based biosensors. <i>Bioanalytical Reviews</i> , 2010, 1, 187-208.	0.2	31
122	Multi-walled carbon nanotube supported Pd nanocubes with enhanced electrocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4485-4489.	10.3	31
123	Theoretical designing and experimental fabricating unique quadruple multimetallic phosphides with remarkable hydrogen evolution performance. <i>Nano Energy</i> , 2017, 34, 421-427.	16.0	31
124	P doped Co ₂ Mo ₃ Se nanosheets grown on carbon fiber cloth as an efficient hybrid catalyst for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12043-12047.	10.3	31
125	Rapid synthesis of Co ₃ O ₄ nanosheet arrays on Ni foam by <i>in situ</i> electrochemical oxidation of air-plasma engraved Co(OH) ₂ for efficient oxygen evolution. <i>Chemical Communications</i> , 2018, 54, 12698-12701.	4.1	31
126	Chemiluminescence of CsPbBr ₃ Perovskite Nanocrystal on the Hexane/Water Interface. <i>Analytical Chemistry</i> , 2018, 90, 11651-11657.	6.5	31

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127	A simple, label-free, electrochemical DNA parity generator/checker for error detection during data transmission based on ϵ -aptamer-nanoclaw ϵ -modulated protein steric hindrance. <i>Chemical Science</i> , 2018, 9, 6981-6987.	7.4	31
128	A DNA ϵ -Based and Electrochemically Transduced Keypad Lock System with Reset Function. <i>Chemistry - A European Journal</i> , 2012, 18, 14939-14942.	3.3	30
129	PolyUbiquitin Chain Linkage Topology Selects the Functions from the Underlying Binding Landscape. <i>PLoS Computational Biology</i> , 2014, 10, e1003691.	3.2	30
130	Bimetallic PdRu nanosponges with a tunable composition for ethylene glycol oxidation. <i>RSC Advances</i> , 2016, 6, 12486-12490.	3.6	30
131	Enhanced surface plasmon resonance immunosensing using a streptavidin ϵ -biotinylated protein complex. <i>Analyst, The</i> , 2001, 126, 4-6.	3.5	29
132	Novel Te/Pt Hybrid Nanowire with Nanoporous Surface: A Catalytically Active Nanoelectrocatalyst. <i>Journal of Physical Chemistry C</i> , 2010, 114, 4797-4802.	3.1	29
133	PEI/Zr 4+ -coated nanopore for selective and sensitive detection of ATP in combination with single-walled carbon nanotubes. <i>Biosensors and Bioelectronics</i> , 2015, 63, 287-293.	10.1	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. <i>Biosensors and Bioelectronics</i> , 2016, 85, 771-776.	10.1	29
135	Morphological and electronic modulation of NiSe nanosheet assemblies by Mo, S-codoping for an efficient hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20588-20593.	10.3	29
136	Kinetics of the CO ₂ reduction reaction in aprotic Li ϵ -CO ₂ batteries: a model study. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3290-3296.	10.3	29
137	Gram-Scale, Low-Cost, Rapid Fabrication of High-Quality Width-Controlled One-Dimensional Conducting Polymer Nanobelts. <i>Chemistry of Materials</i> , 2007, 19, 4621-4623.	6.7	28
138	Electrochromic sensing platform based on steric hindrance effects for CEA detection. <i>Analyst, The</i> , 2016, 141, 3985-3988.	3.5	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. <i>Materials Horizons</i> , 2019, 6, 375-384.	12.2	28
140	Electrocatalytic oxidation and flow detection of hydrazine compounds in liquid chromatography at a vitamin B-12 adsorbed glassy carbon electrode. <i>Electroanalysis</i> , 1992, 4, 473-479.	2.9	27
141	Determination of Hydroxylamine by Capillary Electrophoresis-Electrochemical Detection with a Palladium-Particle Modified Carbon Fiber Microdisk Array Electrode. <i>Analytical Letters</i> , 1997, 30, 1025-1036.	1.8	27
142	Mimetic biomembrane ϵ -AuNPs ϵ -graphene hybrid as matrix for enzyme immobilization and bioelectrocatalysis study. <i>Talanta</i> , 2015, 143, 438-441.	5.5	27
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