

Xing-Hua Xia

List of Publications by Year in descending order

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355
papers

23,802
citations

12303

69
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10424

139
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363
all docs

363
docs citations

363
times ranked

26018
citing authors

#	ARTICLE	IF	CITATIONS
1	Catalyst-Free Synthesis of Nitrogen-Doped Graphene via Thermal Annealing Graphite Oxide with Melamine and Its Excellent Electrocatalysis. ACS Nano, 2011, 5, 4350-4358.	7.3	2,341
2	A Green Approach to the Synthesis of Graphene Nanosheets. ACS Nano, 2009, 3, 2653-2659.	7.3	2,115
3	Synthesis of boron doped graphene for oxygen reduction reaction in fuel cells. Journal of Materials Chemistry, 2012, 22, 390-395.	6.7	790
4	Energy Level Engineering of MoS ₂ by Transition-Metal Doping for Accelerating Hydrogen Evolution Reaction. Journal of the American Chemical Society, 2017, 139, 15479-15485.	6.6	713
5	Electrochemical sensor based on nitrogen doped graphene: Simultaneous determination of ascorbic acid, dopamine and uric acid. Biosensors and Bioelectronics, 2012, 34, 125-131.	5.3	686
6	Hot Electron of Au Nanorods Activates the Electrocatalysis of Hydrogen Evolution on MoS ₂ Nanosheets. Journal of the American Chemical Society, 2015, 137, 7365-7370.	6.6	556
7	Hydrogen bubble dynamic template synthesis of porous gold for nonenzymatic electrochemical detection of glucose. Electrochemistry Communications, 2007, 9, 981-988.	2.3	477
8	Electronic metal-support interaction modulates single-atom platinum catalysis for hydrogen evolution reaction. Nature Communications, 2021, 12, 3021.	5.8	397
9	Controllable Deposition of Platinum Nanoparticles on Graphene As an Electrocatalyst for Direct Methanol Fuel Cells. Journal of Physical Chemistry C, 2011, 115, 15639-15645.	1.5	391
10	Superhydrophobicity of 3D Porous Copper Films Prepared Using the Hydrogen Bubble Dynamic Template. Chemistry of Materials, 2007, 19, 5758-5764.	3.2	313
11	A facile approach to the synthesis of highly electroactive Pt nanoparticles on graphene as an anode catalyst for direct methanol fuel cells. Chemical Communications, 2010, 46, 5951.	2.2	301
12	Peroxidase-like activity of water-soluble cupric oxide nanoparticles and its analytical application for detection of hydrogen peroxide and glucose. Analyst, The, 2012, 137, 1706.	1.7	287
13	Citrate-Capped Platinum Nanoparticle as a Smart Probe for Ultrasensitive Mercury Sensing. Analytical Chemistry, 2014, 86, 10955-10960.	3.2	248
14	Nonenzymatic Glucose Detection by Using a Three-Dimensionally Ordered, Macroporous Platinum Template. Chemistry - A European Journal, 2005, 11, 2177-2182.	1.7	243
15	Synthesis, Characterization, and Immobilization of Prussian Blue-Modified Au Nanoparticles: Application to Electrocatalytic Reduction of H ₂ O ₂ . Langmuir, 2007, 23, 2133-2137.	1.6	216
16	Adsorption of water at Pt(111) electrode in HClO ₄ solutions. The potential of zero charge. Journal of Electroanalytical Chemistry, 1996, 411, 95-102.	1.9	214
17	Fabrication of Water-Soluble, Green-Emitting Gold Nanoclusters with a 65% Photoluminescence Quantum Yield via Host-Guest Recognition. Chemistry of Materials, 2017, 29, 1362-1369.	3.2	209
18	Direct Plasmon-Accelerated Electrochemical Reaction on Gold Nanoparticles. ACS Nano, 2017, 11, 5897-5905.	7.3	208

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19	Bioinspired copper catalyst effective for both reduction and evolution of oxygen. <i>Nature Communications</i> , 2014, 5, 5285.	5.8	202
20	Chitosan-stabilized platinum nanoparticles as effective oxidase mimics for colorimetric detection of acid phosphatase. <i>Nanoscale</i> , 2017, 9, 10292-10300.	2.8	187
21	In situ formation of molecular Ni-Fe active sites on heteroatom-doped graphene as a heterogeneous electrocatalyst toward oxygen evolution. <i>Science Advances</i> , 2018, 4, eaap7970.	4.7	176
22	Fluorescent hydrogen peroxide sensor based on cupric oxide nanoparticles and its application for glucose and l-lactate detection. <i>Biosensors and Bioelectronics</i> , 2014, 61, 374-378.	5.3	158
23	In Situ Fabrication of Ultrasmall Gold Nanoparticles/2D MOFs Hybrid as Nanozyme for Antibacterial Therapy. <i>Small</i> , 2020, 16, e2000553.	5.2	155
24	Gold nanoparticles integrated in a nanotube array for electrochemical detection of glucose. <i>Electrochemistry Communications</i> , 2009, 11, 216-219.	2.3	153
25	Electrogenerated Chemiluminescence Imaging of Electrocatalysis at a Single Au@Pt Janus Nanoparticle. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4010-4014.	7.2	145
26	Lanthanide-based metal-organic framework nanosheets with unique fluorescence quenching properties for two-color intracellular adenosine imaging in living cells. <i>NPG Asia Materials</i> , 2017, 9, e354-e354.	3.8	144
27	Facile Method To Fabricate a Large-Scale Superhydrophobic Surface by Galvanic Cell Reaction. <i>Chemistry of Materials</i> , 2006, 18, 1365-1368.	3.2	138
28	A Nanochannel Array-Based Electrochemical Device for Quantitative Label-free DNA Analysis. <i>ACS Nano</i> , 2010, 4, 6417-6424.	7.3	134
29	Ultrasensitive Capture, Detection, and Release of Circulating Tumor Cells Using a Nanochannel-Ion Channel Hybrid Coupled with Electrochemical Detection Technique. <i>Analytical Chemistry</i> , 2017, 89, 10957-10964.	3.2	132
30	Site-specific electrodeposition enables self-terminating growth of atomically dispersed metal catalysts. <i>Nature Communications</i> , 2020, 11, 4558.	5.8	131
31	Porous Anodic Alumina with Continuously Manipulated Pore/Cell Size. <i>ACS Nano</i> , 2008, 2, 959-965.	7.3	126
32	Enhanced chemiluminescence of the luminol-hydrogen peroxide system by colloidal cupric oxide nanoparticles as peroxidase mimic. <i>Talanta</i> , 2012, 99, 643-648.	2.9	125
33	Solution-pH-Modulated Rectification of Ionic Current in Highly Ordered Nanochannel Arrays Patterned with Chemical Functional Groups at Designed Positions. <i>Advanced Functional Materials</i> , 2013, 23, 3836-3844.	7.8	125
34	Multistage Coloring Electrochromic Device Based on TiO ₂ Nanotube Arrays Modified with WO ₃ Nanoparticles. <i>Advanced Functional Materials</i> , 2011, 21, 1941-1946.	7.8	123
35	A label-free amperometric immunosensor based on biocompatible conductive redox chitosan-ferrocene/gold nanoparticles matrix. <i>Biosensors and Bioelectronics</i> , 2009, 25, 852-857.	5.3	121
36	Simultaneous voltammetric determination of norepinephrine, ascorbic acid and uric acid on polycalconcarboxylic acid modified glassy carbon electrode. <i>Biosensors and Bioelectronics</i> , 2008, 23, 1488-1495.	5.3	118

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37	Ultrasensitive Detection of Bacteria Using a 2D MOF Nanozyme-Amplified Electrochemical Detector. <i>Analytical Chemistry</i> , 2021, 93, 8544-8552.	3.2	117
38	Methionine-directed fabrication of gold nanoclusters with yellow fluorescent emission for Cu ²⁺ sensing. <i>Biosensors and Bioelectronics</i> , 2015, 65, 397-403.	5.3	116
39	Colorimetric detection of urea, urease, and urease inhibitor based on the peroxidase-like activity of gold nanoparticles. <i>Analytica Chimica Acta</i> , 2016, 915, 74-80.	2.6	113
40	Two-step pyrolysis process to synthesize highly dispersed Pt@Ru/carbon nanotube catalysts for methanol electrooxidation. <i>Carbon</i> , 2006, 44, 61-66.	5.4	111
41	One-Step Immobilization of Glucose Oxidase in a Silica Matrix on a Pt Electrode by an Electrochemically Induced Sol-Gel Process. <i>Langmuir</i> , 2007, 23, 11896-11900.	1.6	106
42	Early Stages during the Oxidation of HCOOH on Single-Crystal Pt Electrodes As Characterized by Infrared Spectroscopy. <i>Langmuir</i> , 1996, 12, 4260-4265.	1.6	101
43	Facile preparation of magnetic core-shell Fe ₃ O ₄ @Au nanoparticle/myoglobin biofilm for direct electrochemistry. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1447-1453.	5.3	98
44	Choline and acetylcholine detection based on peroxidase-like activity and protein antifouling property of platinum nanoparticles in bovine serum albumin scaffold. <i>Biosensors and Bioelectronics</i> , 2014, 62, 331-336.	5.3	98
45	Platinum nanoparticles/graphene-oxide hybrid with excellent peroxidase-like activity and its application for cysteine detection. <i>Analyst</i> , The, 2015, 140, 5251-5256.	1.7	95
46	Self-cascade reaction catalyzed by CuO nanoparticle-based dual-functional enzyme mimics. <i>Biosensors and Bioelectronics</i> , 2017, 97, 21-25.	5.3	91
47	Low Power Single Laser Activated Synergistic Cancer Phototherapy Using Photosensitizer Functionalized Dual Plasmonic Photothermal Nanoagents. <i>ACS Nano</i> , 2019, 13, 2544-2557.	7.3	89
48	pH-Sensitive gold nanoclusters: preparation and analytical applications for urea, urease, and urease inhibitor detection. <i>Chemical Communications</i> , 2015, 51, 7847-7850.	2.2	88
49	Direct Plasmon-Enhanced Electrochemistry for Enabling Ultrasensitive and Label-Free Detection of Circulating Tumor Cells in Blood. <i>Analytical Chemistry</i> , 2019, 91, 4413-4420.	3.2	88
50	Synthesis of graphitic carbon nitride through pyrolysis of melamine and its electrocatalysis for oxygen reduction reaction. <i>Chinese Chemical Letters</i> , 2013, 24, 103-106.	4.8	87
51	A simple, disposable microfluidic device for rapid protein concentration and purification via direct-printing. <i>Lab on A Chip</i> , 2008, 8, 1496.	3.1	86
52	Electrochemically deposited nanocomposite film of CS-Fc/Au NPs/GOx for glucose biosensor application. <i>Biosensors and Bioelectronics</i> , 2009, 24, 2920-2925.	5.3	85
53	A Water-Soluble Cu Complex as Molecular Catalyst for Electrocatalytic CO ₂ Reduction on Graphene-Based Electrodes. <i>Advanced Energy Materials</i> , 2019, 9, 1803151.	10.2	85
54	Simple Approach for Efficient Encapsulation of Enzyme in Silica Matrix with Retained Bioactivity. <i>Analytical Chemistry</i> , 2009, 81, 3478-3484.	3.2	83

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55	Determination of Explosives Using Electrochemically Reduced Graphene. <i>Chemistry - an Asian Journal</i> , 2011, 6, 1210-1216.	1.7	83
56	Immobilization and catalytic activity of horseradish peroxidase on molybdenum disulfide nanosheets modified electrode. <i>Electrochemistry Communications</i> , 2013, 35, 146-148.	2.3	82
57	Elimination of electrochemical interferences in glucose biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2010, 29, 306-318.	5.8	81
58	Insight into the Unique Fluorescence Quenching Property of Metal-Organic Frameworks upon DNA Binding. <i>Analytical Chemistry</i> , 2017, 89, 11366-11371.	3.2	81
59	Redox Recycling-Triggered Peroxidase-Like Activity Enhancement of Bare Gold Nanoparticles for Ultrasensitive Colorimetric Detection of Rare-Earth Ce ³⁺ Ion. <i>Analytical Chemistry</i> , 2019, 91, 4039-4046.	3.2	80
60	Asymmetric Nanochannel-Ionchannel Hybrid for Ultrasensitive and Label-Free Detection of Copper Ions in Blood. <i>Analytical Chemistry</i> , 2018, 90, 896-902.	3.2	79
61	Three-Dimensionally Ordered Macroporous Gold Structure as an Efficient Matrix for Solid-State Electrochemiluminescence of Ru(bpy) ₃ ²⁺ /TPA System with High Sensitivity. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12213-12219.	1.5	77
62	Electrochromic-Tuned Plasmonics for Photothermal Sterile Window. <i>ACS Nano</i> , 2018, 12, 6895-6903.	7.3	76
63	High-Performance Ru@C ₄ N Electro catalyst for Hydrogen Evolution Reaction in Both Acidic and Alkaline Solutions. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 19176-19182.	4.0	76
64	Facile electrochemiluminescence sensing platform based on high-quantum-yield gold nanocluster probe for ultrasensitive glutathione detection. <i>Biosensors and Bioelectronics</i> , 2018, 105, 71-76.	5.3	74
65	Graphene-Ruthenium(II) Complex Composites for Sensitive ECL Immunosensors. <i>Small</i> , 2014, 10, 706-716.	5.2	72
66	Fabrication of Bio-Inspired 2D MOFs/PAA Hybrid Membrane for Asymmetric Ion Transport. <i>Advanced Functional Materials</i> , 2020, 30, 1908804.	7.8	72
67	Hollow Core-Shell Structured Ni-Sn@C Nanoparticles: A Novel Electro catalyst for the Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9098-9102.	4.0	71
68	Dendrimer-Au Nanoparticle Network Covered Alumina Membrane for Ion Rectification and Enhanced Bioanalysis. <i>Nano Letters</i> , 2020, 20, 1846-1854.	4.5	71
69	Photochemical synthesis of Prussian blue film from an acidic ferricyanide solution and application. <i>Electrochemistry Communications</i> , 2005, 7, 1252-1256.	2.3	69
70	Anomalous Diffusion of Electrically Neutral Molecules in Charged Nanochannels. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7943-7947.	7.2	69
71	Determination, characterization and cytotoxicity on HELF cells of ZnO nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 76, 145-150.	2.5	69
72	Highly Efficient Capture and Electrochemical Release of Circulating Tumor Cells by Using Aptamers Modified Gold Nanowire Arrays. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34706-34714.	4.0	69

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73	Bioinspired Engineering of Cobalt-Phosphonate Nanosheets for Robust Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2018, 8, 3895-3902.	5.5	69
74	Polyallylamine-directed green synthesis of platinum nanocubes. Shape and electronic effect codependent enhanced electrocatalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 3793.	1.3	68
75	Water-soluble gold nanoclusters prepared by protein-ligand interaction as fluorescent probe for real-time assay of pyrophosphatase activity. <i>Biosensors and Bioelectronics</i> , 2016, 83, 1-8.	5.3	67
76	Enhanced Peroxidase-Like Performance of Gold Nanoparticles by Hot Electrons. <i>Chemistry - A European Journal</i> , 2017, 23, 6717-6723.	1.7	67
77	Characterization and Manipulation of the Electroosmotic Flow in Porous Anodic Alumina Membranes. <i>Analytical Chemistry</i> , 2005, 77, 8102-8108.	3.2	66
78	3-mercaptopropylphosphonic acid modified gold electrode for electrochemical detection of dopamine. <i>Bioelectrochemistry</i> , 2009, 75, 26-31.	2.4	66
79	Insight into Ion Transfer through the Sub-Nanometer Channels in Zeolitic Imidazolate Frameworks. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4767-4771.	7.2	66
80	Biomimetic Nanochannel-Ionchannel Hybrid for Ultrasensitive and Label-Free Detection of MicroRNA in Cells. <i>Analytical Chemistry</i> , 2019, 91, 3582-3589.	3.2	66
81	Inorganic Nanomaterials with Intrinsic Singlet Oxygen Generation for Photodynamic Therapy. <i>Advanced Science</i> , 2021, 8, e2102587.	5.6	66
82	Semiconductor supported biomimetic superhydrophobic gold surfaces by the galvanic exchange reaction. <i>Surface Science</i> , 2006, 600, 38-42.	0.8	65
83	Electrochemical Nanostructuring with Ultrashort Voltage Pulses. <i>Accounts of Chemical Research</i> , 2001, 34, 371-377.	7.6	64
84	Versatile High-Performance Electrochemiluminescence ELISA Platform Based on a Gold Nanocluster Probe. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 24812-24819.	4.0	64
85	Aggregation-induced emission of luminol: a novel strategy for fluorescence ratiometric detection of ALP and As(^v) with high sensitivity and selectivity. <i>Chemical Communications</i> , 2018, 54, 7487-7490.	2.2	63
86	KOH-activated nitrogen-doped graphene by means of thermal annealing for supercapacitor. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 1809-1814.	1.2	62
87	Synthesis of a hydrophilic poly-l-lysine/graphene hybrid through multiple non-covalent interactions for biosensors. <i>Journal of Materials Chemistry B</i> , 2013, 1, 1406.	2.9	62
88	Organic Cyanide Decorated SERS Active Nanopipettes for Quantitative Detection of Hemeproteins and Fe ³⁺ in Single Cells. <i>Analytical Chemistry</i> , 2017, 89, 2522-2530.	3.2	62
89	An ammonia-based etchant for attaining copper nanoclusters with green fluorescence emission. <i>Nanoscale</i> , 2018, 10, 6467-6473.	2.8	62
90	Gold nanocluster-based fluorescence turn-off probe for sensing of doxorubicin by photoinduced electron transfer. <i>Sensors and Actuators B: Chemical</i> , 2019, 296, 126656.	4.0	62

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91	Study on the kinetics of homogeneous enzyme reactions in a micro/nanofluidics device. <i>Lab on A Chip</i> , 2010, 10, 639-646.	3.1	61
92	Low-loading cobalt coupled with nitrogen-doped porous graphene as excellent electrocatalyst for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9079.	5.2	61
93	Bare gold nanoparticles as facile and sensitive colorimetric probe for melamine detection. <i>Analyst</i> , 2012, 137, 5382.	1.7	59
94	Direct electrochemistry of cytochrome c on a graphene/poly (3,4-ethylenedioxythiophene) nanocomposite modified electrode. <i>Electrochemistry Communications</i> , 2012, 20, 1-3.	2.3	59
95	Morphology Controlled Poly(aminophenylboronic acid) Nanostructures as Smart Substrates for Enhanced Capture and Release of Circulating Tumor Cells. <i>Advanced Functional Materials</i> , 2015, 25, 6122-6130.	7.8	59
96	One-step formation of nanostructured gold layers via a galvanic exchange reaction for surface enhancement Raman scattering. <i>Nanotechnology</i> , 2006, 17, 651-657.	1.3	58
97	A colorimetric assay for sensitive detection of hydrogen peroxide and glucose in microfluidic paper-based analytical devices integrated with starch-iodide-gelatin system. <i>Talanta</i> , 2019, 200, 511-517.	2.9	58
98	A supramolecular photosensitizer derived from an Arene-Ru(II) complex self-assembly for NIR activated photodynamic and photothermal therapy. <i>Nature Communications</i> , 2022, 13, .	5.8	58
99	The room temperature electrochemical synthesis of N-doped graphene and its electrocatalytic activity for oxygen reduction. <i>Chemical Communications</i> , 2015, 51, 1198-1201.	2.2	57
100	Axial ligands tailoring the ORR activity of cobalt porphyrin. <i>Science Bulletin</i> , 2019, 64, 1158-1166.	4.3	57
101	Nanochannelâ€“Ion Channel Hybrid Device for Ultrasensitive Monitoring of Biomolecular Recognition Events. <i>Analytical Chemistry</i> , 2019, 91, 1185-1193.	3.2	57
102	Nanopipette-Based SERS Aptasensor for Subcellular Localization of Cancer Biomarker in Single Cells. <i>Analytical Chemistry</i> , 2017, 89, 9911-9917.	3.2	56
103	Synergistically mediated enhancement of cathodic and anodic electrochemiluminescence of graphene quantum dots through chemical and electrochemical reactions of coreactants. <i>Chemical Science</i> , 2018, 9, 6080-6084.	3.7	55
104	Rational Design of High-Performance Donorâ€“Linkerâ€“Acceptor Hybrids Using a Schiff Base for Enabling Photoinduced Electron Transfer. <i>Analytical Chemistry</i> , 2020, 92, 2019-2026.	3.2	54
105	Synthesis and Peroxidaseâ€“Like Activity of Saltâ€“Resistant Platinum Nanoparticles by Using Bovine Serum Albumin as the Scaffold. <i>ChemCatChem</i> , 2014, 6, 1543-1548.	1.8	53
106	Morpholino-Functionalized Nanochannel Array for Label-Free Single Nucleotide Polymorphisms Detection. <i>Analytical Chemistry</i> , 2015, 87, 3936-3941.	3.2	53
107	Plasmonic hot charge carriers activated Ni centres of metalâ€“organic frameworks for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 10601-10609.	5.2	51
108	Galvanic Deposition of Nanostructured Noble-Metal Films on Silicon. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, C148.	2.2	50

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109	One-step synthesis and catalytic properties of porous palladium nanospheres. <i>Journal of Materials Chemistry</i> , 2012, 22, 17604.	6.7	50
110	Selective glucose detection based on the concept of electrochemical depletion of electroactive species in diffusion layer. <i>Biosensors and Bioelectronics</i> , 2005, 20, 1366-1372.	5.3	49
111	Direct electrochemistry and electrocatalysis of hemoglobin at three-dimensional gold film electrode modified with self-assembled monolayers of 3-mercaptopropylphosphonic acid. <i>Analytica Chimica Acta</i> , 2009, 644, 83-89.	2.6	49
112	Colorimetric sensor based on dual-functional gold nanoparticles: Analyte-recognition and peroxidase-like activity. <i>Food Chemistry</i> , 2014, 147, 257-261.	4.2	49
113	Plasmonic Nanohybrid with High Photothermal Conversion Efficiency for Simultaneously Effective Antibacterial/Anticancer Photothermal Therapy. <i>ACS Applied Bio Materials</i> , 2019, 2, 3942-3953.	2.3	49
114	Oriented Self-Assembled Monolayer of Zn(II)-Tetraphenylporphyrin on TiO ₂ Electrode for Photoelectrochemical Analysis. <i>Analytical Chemistry</i> , 2019, 91, 2759-2767.	3.2	48
115	Fluorescent Sulfur-Tagged Europium(III) Coordination Polymers for Monitoring Reactive Oxygen Species. <i>Analytical Chemistry</i> , 2015, 87, 6828-6833.	3.2	47
116	Plastified poly(ethylene terephthalate) (PET)-toner microfluidic chip by direct-printing integrated with electrochemical detection for pharmaceutical analysis. <i>Talanta</i> , 2006, 68, 1303-1308.	2.9	46
117	Hemoglobin on Phosphonic Acid Terminated Self-Assembled Monolayers at a Gold Electrode: Immobilization, Direct Electrochemistry, and Electrocatalysis. <i>Chemistry - A European Journal</i> , 2008, 14, 10727-10734.	1.7	46
118	Potentiodynamic deposition of Prussian blue from a solution containing single component of ferricyanide and its mechanism investigation. <i>Journal of Solid State Electrochemistry</i> , 2003, 7, 561-566.	1.2	45
119	Electric-Field Control of the pH-Dependent Redox Process of Cytochrome <i>c</i> Immobilized on a Gold Electrode. <i>Journal of Physical Chemistry C</i> , 2012, 116, 13038-13044.	1.5	45
120	Oriented assembly of invisible probes: towards single mRNA imaging in living cells. <i>Chemical Science</i> , 2016, 7, 3256-3263.	3.7	45
121	Self-Referenced Ratiometric Detection of Sulfatase Activity with Dual-Emissive Urease-Encapsulated Gold Nanoclusters. <i>ACS Sensors</i> , 2019, 4, 344-352.	4.0	45
122	Effect of Nanoemitters on Suppressing the Formation of Metal Adduct Ions in Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 1838-1845.	3.2	44
123	Coupling a Wireless Bipolar Ultramicroelectrode with Nano-Electrospray Ionization Mass Spectrometry: Insights into the Ultrafast Initial Step of Electrochemical Reactions. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18244-18248.	7.2	44
124	Reversible Plasmonic Probe Sensitive for pH in Micro/Nanospaces Based on i-Motif-Modulated Morpholino-Gold Nanoparticle Assembly. <i>Analytical Chemistry</i> , 2013, 85, 1053-1057.	3.2	43
125	Fenton reaction-mediated fluorescence quenching of N-acetyl-L-cysteine-protected gold nanoclusters: analytical applications of hydrogen peroxide, glucose, and catalase detection. <i>Analyst</i> , 2015, 140, 7650-7656.	1.7	43
126	A Multiparameter pH-Sensitive Nanodevice Based on Plasmonic Nanopores. <i>Advanced Functional Materials</i> , 2018, 28, 1703847.	7.8	43

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127	B ₄ C nanosheets decorated with <i>in situ</i> -derived boron-doped graphene quantum dots for high-efficiency ambient N ₂ fixation. <i>Chemical Communications</i> , 2019, 55, 7406-7409.	2.2	43
128	Electronic Metal-Support Interaction To Modulate MoS ₂ -Supported Pd Nanoparticles for the Degradation of Organic Dyes. <i>ACS Applied Nano Materials</i> , 2019, 2, 3385-3393.	2.4	43
129	Single gold nanocluster probe-based fluorescent sensor array for heavy metal ion discrimination. <i>Journal of Hazardous Materials</i> , 2021, 405, 124259.	6.5	43
130	Synthesis of metallic nanoparticles protected with N,N,N-trimethyl chitosan chloride via a relatively weak affinity. <i>Nanotechnology</i> , 2006, 17, 4156-4162.	1.3	42
131	A simple electrochemical method for the determination of hydroxyl free radicals without separation process. <i>Talanta</i> , 2008, 74, 760-765.	2.9	42
132	Size-Controllable Gold Nanopores with High SERS Activity. <i>Analytical Chemistry</i> , 2017, 89, 10407-10413.	3.2	42
133	Controllable Synthesis and Formation Mechanism Investigation of Prussian Blue Nanocrystals by Using the Polysaccharide Hydrolysis Method. <i>Journal of Physical Chemistry C</i> , 2009, 113, 14838-14843.	1.5	41
134	Propagation of Concentration Polarization Affecting Ions Transport in Branching Nanochannel Array. <i>Analytical Chemistry</i> , 2015, 87, 8194-8202.	3.2	41
135	Surface electric field manipulation of the adsorption kinetics and biocatalytic properties of cytochrome c on a 3D macroporous Au electrode. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 333-341.	1.9	40
136	Greatly improved catalytic activity and direct electron transfer rate of cytochrome C due to the confinement effect in a layered self-assembly structure. <i>Chemical Communications</i> , 2012, 48, 2316.	2.2	40
137	Recognition of plastic nanoparticles using a single gold nanopore fabricated at the tip of a glass nanopipette. <i>Chemical Communications</i> , 2019, 55, 6397-6400.	2.2	40
138	Heparin-platinum nanozymes with enhanced oxidase-like activity for the colorimetric sensing of isoniazid. <i>Talanta</i> , 2020, 211, 120707.	2.9	40
139	Etching and Passivation of Silicon in Alkaline Solution: A Coupled Chemical/Electrochemical System. <i>Journal of Physical Chemistry B</i> , 2001, 105, 5722-5729.	1.2	39
140	A simple method for fabrication of sole composition nickel hexacyanoferrate modified electrode and its application. <i>Talanta</i> , 2009, 80, 539-543.	2.9	38
141	Entrapment of Protein in Nanotubes Formed by a Nanochannel and Ion-Channel Hybrid Structure of Anodic Alumina. <i>Small</i> , 2012, 8, 1001-1005.	5.2	38
142	Study on the photocatalytic reaction kinetics in a TiO ₂ nanoparticles coated microreactor integrated microfluidics device. <i>Talanta</i> , 2018, 182, 544-548.	2.9	37
143	A Heparinase Sensor Based on a Ternary System of Hg ²⁺ -Heparin-Osmium Nanoparticles. <i>Analytical Chemistry</i> , 2020, 92, 1635-1642.	3.2	37
144	Protein-Supported RuO ₂ Nanoparticles with Improved Catalytic Activity, In Vitro Salt Resistance, and Biocompatibility: Colorimetric and Electrochemical Biosensing of Cellular H ₂ O ₂ . <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 14876-14883.	4.0	37

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145	Off-line form of the Michaelis-Menten equation for studying the reaction kinetics in a polymer microchip integrated with enzyme microreactor. <i>Lab on A Chip</i> , 2006, 6, 811-818.	3.1	36
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