

Xing-Hua Xia

List of Publications by Citations

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345
papers

18,891
citations

61
h-index

126
g-index

363
ext. papers

21,272
ext. citations

7.2
avg, IF

7.05
L-index

#	Paper	IF	Citations
345	Catalyst-free synthesis of nitrogen-doped graphene via thermal annealing graphite oxide with melamine and its excellent electrocatalysis. <i>ACS Nano</i> , 2011 , 5, 4350-8	16.7	2020
344	A green approach to the synthesis of graphene nanosheets. <i>ACS Nano</i> , 2009 , 3, 2653-9	16.7	1894
343	Synthesis of boron doped graphene for oxygen reduction reaction in fuel cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 390-395		708
342	Electrochemical sensor based on nitrogen doped graphene: simultaneous determination of ascorbic acid, dopamine and uric acid. <i>Biosensors and Bioelectronics</i> , 2012 , 34, 125-31	11.8	584
341	Energy Level Engineering of MoS by Transition-Metal Doping for Accelerating Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2017 , 139, 15479-15485	16.4	516
340	Hot electron of Au nanorods activates the electrocatalysis of hydrogen evolution on MoS ₂ nanosheets. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7365-70	16.4	440
339	Hydrogen bubble dynamic template synthesis of porous gold for nonenzymatic electrochemical detection of glucose. <i>Electrochemistry Communications</i> , 2007 , 9, 981-988	5.1	433
338	Controllable Deposition of Platinum Nanoparticles on Graphene As an Electrocatalyst for Direct Methanol Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 15639-15645	3.8	360
337	A facile approach to the synthesis of highly electroactive Pt nanoparticles on graphene as an anode catalyst for direct methanol fuel cells. <i>Chemical Communications</i> , 2010 , 46, 5951-3	5.8	283
336	Superhydrophobicity of 3D Porous Copper Films Prepared Using the Hydrogen Bubble Dynamic Template. <i>Chemistry of Materials</i> , 2007 , 19, 5758-5764	9.6	266
335	Peroxidase-like activity of water-soluble cupric oxide nanoparticles and its analytical application for detection of hydrogen peroxide and glucose. <i>Analyst, The</i> , 2012 , 137, 1706-12	5	250
334	Nonenzymatic glucose detection by using a three-dimensionally ordered, macroporous platinum template. <i>Chemistry - A European Journal</i> , 2005 , 11, 2177-82	4.8	224
333	Citrate-capped platinum nanoparticle as a smart probe for ultrasensitive mercury sensing. <i>Analytical Chemistry</i> , 2014 , 86, 10955-60	7.8	203
332	Synthesis, characterization, and immobilization of Prussian blue-modified Au nanoparticles: application to electrocatalytic reduction of H ₂ O ₂ . <i>Langmuir</i> , 2007 , 23, 2133-7	4	195
331	Adsorption of water at Pt(111) electrode in HClO ₄ solutions. The potential of zero charge. <i>Journal of Electroanalytical Chemistry</i> , 1996 , 411, 95-102	4.1	177
330	Bioinspired copper catalyst effective for both reduction and evolution of oxygen. <i>Nature Communications</i> , 2014 , 5, 5285	17.4	166
329	Direct Plasmon-Accelerated Electrochemical Reaction on Gold Nanoparticles. <i>ACS Nano</i> , 2017 , 11, 5897-5905	16.7	144

328	Gold nanoparticles integrated in a nanotube array for electrochemical detection of glucose. <i>Electrochemistry Communications</i> , 2009 , 11, 216-219	5.1	141
327	Fabrication of Water-Soluble, Green-Emitting Gold Nanoclusters with a 65% Photoluminescence Quantum Yield via Host-Guest Recognition. <i>Chemistry of Materials</i> , 2017 , 29, 1362-1369	9.6	139
326	Chitosan-stabilized platinum nanoparticles as effective oxidase mimics for colorimetric detection of acid phosphatase. <i>Nanoscale</i> , 2017 , 9, 10292-10300	7.7	138
325	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, 374-8	11.8	137
324	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	14.3	131
323	Facile Method To Fabricate a Large-Scale Superhydrophobic Surface by Galvanic Cell Reaction. <i>Chemistry of Materials</i> , 2006 , 18, 1365-1368	9.6	131
322	A nanochannel array-based electrochemical device for quantitative label-free DNA analysis. <i>ACS Nano</i> , 2010 , 4, 6417-24	16.7	120
321	Multistage Coloring Electrochromic Device Based on TiO ₂ Nanotube Arrays Modified with WO ₃ Nanoparticles. <i>Advanced Functional Materials</i> , 2011 , 21, 1941-1946	15.6	114
320	A label-free amperometric immunosensor based on biocompatible conductive redox chitosan-ferrocene/gold nanoparticles matrix. <i>Biosensors and Bioelectronics</i> , 2009 , 25, 852-7	11.8	113
319	Porous anodic alumina with continuously manipulated pore/cell size. <i>ACS Nano</i> , 2008 , 2, 959-65	16.7	113
318	Enhanced chemiluminescence of the luminol-hydrogen peroxide system by colloidal cupric oxide nanoparticles as peroxidase mimic. <i>Talanta</i> , 2012 , 99, 643-8	6.2	111
317	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, e354-334	10.3	106
316	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	15.6	106
315	Two-step pyrolysis process to synthesize highly dispersed PtRu/carbon nanotube catalysts for methanol electrooxidation. <i>Carbon</i> , 2006 , 44, 61-66	10.4	104
314	Electronic metal-support interaction modulates single-atom platinum catalysis for hydrogen evolution reaction. <i>Nature Communications</i> , 2021 , 12, 3021	17.4	102
313	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	7.8	101
312	Simultaneous voltammetric determination of norepinephrine, ascorbic acid and uric acid on polycalconcarboxylic acid modified glassy carbon electrode. <i>Biosensors and Bioelectronics</i> , 2008 , 23, 1488-95	11.8	101
311	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, 11896-900	4	95

310	Facile preparation of magnetic core-shell Fe ₃ O ₄ @Au nanoparticle/myoglobin biofilm for direct electrochemistry. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 1447-53	11.8	93
309	Electrogenerated Chemiluminescence Imaging of Electrocatalysis at a Single Au-Pt Janus Nanoparticle. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4010-4014	16.4	91
308	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	6.6	91
307	Methionine-directed fabrication of gold nanoclusters with yellow fluorescent emission for Cu(2+) sensing. <i>Biosensors and Bioelectronics</i> , 2015 , 65, 397-403	11.8	90
306	Early Stages during the Oxidation of HCOOH on Single-Crystal Pt Electrodes As Characterized by Infrared Spectroscopy. <i>Langmuir</i> , 1996 , 12, 4260-4265	4	90
305	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, 331-6	11.8	81
304	Platinum nanoparticles/graphene-oxide hybrid with excellent peroxidase-like activity and its application for cysteine detection. <i>Analyst, The</i> , 2015 , 140, 5251-6	5	81
303	pH-Sensitive gold nanoclusters: preparation and analytical applications for urea, urease, and urease inhibitor detection. <i>Chemical Communications</i> , 2015 , 51, 7847-50	5.8	78
302	Immobilization and catalytic activity of horseradish peroxidase on molybdenum disulfide nanosheets modified electrode. <i>Electrochemistry Communications</i> , 2013 , 35, 146-148	5.1	78
301	A simple, disposable microfluidic device for rapid protein concentration and purification via direct-printing. <i>Lab on A Chip</i> , 2008 , 8, 1496-501	7.2	75
300	Simple approach for efficient encapsulation of enzyme in silica matrix with retained bioactivity. <i>Analytical Chemistry</i> , 2009 , 81, 3478-84	7.8	74
299	Determination of explosives using electrochemically reduced graphene. <i>Chemistry - an Asian Journal</i> , 2011 , 6, 1210-6	4.5	72
298	Electrochemically deposited nanocomposite film of CS-Fc/Au NPs/GOx for glucose biosensor application. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 2920-5	11.8	72
297	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	3.8	71
296	Self-cascade reaction catalyzed by CuO nanoparticle-based dual-functional enzyme mimics. <i>Biosensors and Bioelectronics</i> , 2017 , 97, 21-25	11.8	67
295	Low Power Single Laser Activated Synergistic Cancer Phototherapy Using Photosensitizer Functionalized Dual Plasmonic Photothermal Nanoagents. <i>ACS Nano</i> , 2019 , 13, 2544-2557	16.7	66
294	Polyallylamine-directed green synthesis of platinum nanocubes. Shape and electronic effect codependent enhanced electrocatalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 3793-802 ^{3.6}		66
293	In Situ Fabrication of Ultrasmall Gold Nanoparticles/2D MOFs Hybrid as Nanozyme for Antibacterial Therapy. <i>Small</i> , 2020 , 16, e2000553	11	65

292	Graphene-Ruthenium(II) complex composites for sensitive ECL immunosensors. <i>Small</i> , 2014 , 10, 706-16	11	65
291	Elimination of electrochemical interferences in glucose biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2010 , 29, 306-318	14.6	65
290	3-Mercaptopropylphosphonic acid modified gold electrode for electrochemical detection of dopamine. <i>Bioelectrochemistry</i> , 2009 , 75, 26-31	5.6	64
289	Photochemical synthesis of Prussian blue film from an acidic ferricyanide solution and application. <i>Electrochemistry Communications</i> , 2005 , 7, 1252-1256	5.1	64
288	Anomalous diffusion of electrically neutral molecules in charged nanochannels. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 7943-7	16.4	63
287	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	8.1	62
286	Site-specific electrodeposition enables self-terminating growth of atomically dispersed metal catalysts. <i>Nature Communications</i> , 2020 , 11, 4558	17.4	62
285	Semiconductor supported biomimetic superhydrophobic gold surfaces by the galvanic exchange reaction. <i>Surface Science</i> , 2006 , 600, 38-42	1.8	61
284	Determination, characterization and cytotoxicity on HELF cells of ZnO nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010 , 76, 145-50	6	60
283	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	11.8	60
282	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	9.5	59
281	Characterization and manipulation of the electroosmotic flow in porous anodic alumina membranes. <i>Analytical Chemistry</i> , 2005 , 77, 8102-8	7.8	59
280	Bioinspired Engineering of Cobalt-Phosphonate Nanosheets for Robust Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2018 , 8, 3895-3902	13.1	58
279	Asymmetric Nanochannel-Ionchannel Hybrid for Ultrasensitive and Label-Free Detection of Copper Ions in Blood. <i>Analytical Chemistry</i> , 2018 , 90, 896-902	7.8	58
278	Insight into the Unique Fluorescence Quenching Property of Metal-Organic Frameworks upon DNA Binding. <i>Analytical Chemistry</i> , 2017 , 89, 11366-11371	7.8	57
277	Redox Recycling-Triggered Peroxidase-Like Activity Enhancement of Bare Gold Nanoparticles for Ultrasensitive Colorimetric Detection of Rare-Earth Ce Ion. <i>Analytical Chemistry</i> , 2019 , 91, 4039-4046	7.8	57
276	Hollow core-shell structured Ni-Sn@C nanoparticles: a novel electrocatalyst for the hydrogen evolution reaction. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 9098-102	9.5	57
275	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	21.8	57

274	Study on the kinetics of homogeneous enzyme reactions in a micro/nanofluidics device. <i>Lab on A Chip</i> , 2010 , 10, 639-46	7.2	56
273	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	7.8	56
272	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	13	55
271	Direct electrochemistry of cytochrome c on a graphene/poly (3,4-ethylenedioxythiophene) nanocomposite modified electrode. <i>Electrochemistry Communications</i> , 2012 , 20, 1-3	5.1	55
270	One-step formation of nanostructured gold layers via a galvanic exchange reaction for surface enhancement Raman scattering. <i>Nanotechnology</i> , 2006 , 17, 651-657	3.4	55
269	Electrochromic-Tuned Plasmonics for Photothermal Sterile Window. <i>ACS Nano</i> , 2018 , 12, 6895-6903	16.7	53
268	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	15.6	52
267	Electrochemical nanostructuring with ultrashort voltage pulses. <i>Accounts of Chemical Research</i> , 2001 , 34, 371-7	24.3	52
266	Bare gold nanoparticles as facile and sensitive colorimetric probe for melamine detection. <i>Analyst</i> , 2012 , 137, 5382-6	5	51
265	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	11.8	50
264	KOH-activated nitrogen-doped graphene by means of thermal annealing for supercapacitor. <i>Journal of Solid State Electrochemistry</i> , 2013 , 17, 1809-1814	2.6	50
263	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, 1406-1413	7.3	50
262	Organic Cyanide Decorated SERS Active Nanopipettes for Quantitative Detection of Hemeproteins and Fe in Single Cells. <i>Analytical Chemistry</i> , 2017 , 89, 2522-2530	7.8	49
261	High-Performance Ru@CN Electrocatalyst for Hydrogen Evolution Reaction in Both Acidic and Alkaline Solutions. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 19176-19182	9.5	49
260	The room temperature electrochemical synthesis of N-doped graphene and its electrocatalytic activity for oxygen reduction. <i>Chemical Communications</i> , 2015 , 51, 1198-201	5.8	48
259	Morpholino-functionalized nanochannel array for label-free single nucleotide polymorphisms detection. <i>Analytical Chemistry</i> , 2015 , 87, 3936-41	7.8	48
258	Insight into Ion Transfer through the Sub-Nanometer Channels in Zeolitic Imidazolate Frameworks. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4767-4771	16.4	47
257	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	5.8	47

256	Synthesis and Peroxidase-Like Activity of Salt-Resistant Platinum Nanoparticles by Using Bovine Serum Albumin as the Scaffold. <i>ChemCatChem</i> , 2014 , 6, 1543-1548	5.2	47
255	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, 83-9	6.6	47
254	Galvanic Deposition of Nanostructured Noble-Metal Films on Silicon. <i>Electrochemical and Solid-State Letters</i> , 2005 , 8, C148		47
253	Biomimetic Nanochannel-Ionchannel Hybrid for Ultrasensitive and Label-Free Detection of MicroRNA in Cells. <i>Analytical Chemistry</i> , 2019 , 91, 3582-3589	7.8	47
252	One-step synthesis and catalytic properties of porous palladium nanospheres. <i>Journal of Materials Chemistry</i> , 2012 , 22, 17604		46
251	Enhanced Peroxidase-Like Performance of Gold Nanoparticles by Hot Electrons. <i>Chemistry - A European Journal</i> , 2017 , 23, 6717-6723	4.8	45
250	An ammonia-based etchant for attaining copper nanoclusters with green fluorescence emission. <i>Nanoscale</i> , 2018 , 10, 6467-6473	7.7	45
249	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, 10727-34	4.8	45
248	Colorimetric sensor based on dual-functional gold nanoparticles: analyte-recognition and peroxidase-like activity. <i>Food Chemistry</i> , 2014 , 147, 257-61	8.5	44
247	Electric-Field Control of the pH-Dependent Redox Process of Cytochrome c Immobilized on a Gold Electrode. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 13038-13044	3.8	44
246	Nanochannel-Ion Channel Hybrid Device for Ultrasensitive Monitoring of Biomolecular Recognition Events. <i>Analytical Chemistry</i> , 2019 , 91, 1185-1193	7.8	44
245	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	6.2	42
244	Plastified poly(ethylene terephthalate) (PET)-toner microfluidic chip by direct-printing integrated with electrochemical detection for pharmaceutical analysis. <i>Talanta</i> , 2006 , 68, 1303-8	6.2	42
243	Nanopipette-Based SERS Aptasensor for Subcellular Localization of Cancer Biomarker in Single Cells. <i>Analytical Chemistry</i> , 2017 , 89, 9911-9917	7.8	41
242	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	2.6	41
241	Reversible plasmonic probe sensitive for pH in micro/nanospaces based on i-motif-modulated morpholino-gold nanoparticle assembly. <i>Analytical Chemistry</i> , 2013 , 85, 1053-7	7.8	40
240	Fluorescent Sulfur-Tagged Europium(III) Coordination Polymers for Monitoring Reactive Oxygen Species. <i>Analytical Chemistry</i> , 2015 , 87, 6828-33	7.8	39
239	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	3.8	39

238	Selective glucose detection based on the concept of electrochemical depletion of electroactive species in diffusion layer. <i>Biosensors and Bioelectronics</i> , 2005 , 20, 1366-72	11.8	39
237	Fenton reaction-mediated fluorescence quenching of N-acetyl-L-cysteine-protected gold nanoclusters: analytical applications of hydrogen peroxide, glucose, and catalase detection. <i>Analyst, The</i> , 2015 , 140, 7650-6	5	38
236	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	9.4	37
235	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, 2316-8	5.8	37
234	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, 333-41	4.4	37
233	Synthesis of metallic nanoparticles protected with N,N,N-trimethyl chitosan chloride via a relatively weak affinity. <i>Nanotechnology</i> , 2006 , 17, 4156-62	3.4	37
232	Fabrication of Bio-Inspired 2D MOFs/PAA Hybrid Membrane for Asymmetric Ion Transport. <i>Advanced Functional Materials</i> , 2020 , 30, 1908804	15.6	37
231	Versatile High-Performance Electrochemiluminescence ELISA Platform Based on a Gold Nanocluster Probe. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 24812-24819	9.5	36
230	Propagation of concentration polarization affecting ions transport in branching nanochannel array. <i>Analytical Chemistry</i> , 2015 , 87, 8194-202	7.8	36
229	Oriented assembly of invisible probes: towards single mRNA imaging in living cells. <i>Chemical Science</i> , 2016 , 7, 3256-3263	9.4	36
228	A simple electrochemical method for the determination of hydroxyl free radicals without separation process. <i>Talanta</i> , 2008 , 74, 760-5	6.2	36
227	Plasmonic hot charge carriers activated Ni centres of metal-organic frameworks for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10601-10609	13	35
226	Real-time monitoring of mass-transport-related enzymatic reaction kinetics in a nanochannel-array reactor. <i>Chemistry - A European Journal</i> , 2010 , 16, 10186-94	4.8	35
225	Etching and Passivation of Silicon in Alkaline Solution: A Coupled Chemical/Electrochemical System. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 5722-5729	3.4	35
224	BC nanosheets decorated with in situ-derived boron-doped graphene quantum dots for high-efficiency ambient N fixation. <i>Chemical Communications</i> , 2019 , 55, 7406-7409	5.8	34
223	Highly efficient and selective enrichment of phosphopeptides using porous anodic alumina membrane for MALDI-TOF MS analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2007 , 18, 1387-95	3.5	34
222	Oriented Self-Assembled Monolayer of Zn(II)-Tetraphenylporphyrin on TiO Electrode for Photoelectrochemical Analysis. <i>Analytical Chemistry</i> , 2019 , 91, 2759-2767	7.8	33
221	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	8.5	33

220	Size-Controllable Gold Nanopores with High SERS Activity. <i>Analytical Chemistry</i> , 2017 , 89, 10407-10413	7.8	33
219	Rapid protein concentration, efficient fluorescence labeling and purification on a micro/nanofluidics chip. <i>Lab on A Chip</i> , 2012 , 12, 2664-71	7.2	33
218	Highly Efficient Oxygen Reduction Electrocatalyst Derived from a New Three-Dimensional PolyPorphyrin. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 25875-25880	9.5	33
217	A Multiparameter pH-Sensitive Nanodevice Based on Plasmonic Nanopores. <i>Advanced Functional Materials</i> , 2018 , 28, 1703847	15.6	33
216	Dendrimer-Au Nanoparticle Network Covered Alumina Membrane for Ion Rectification and Enhanced Bioanalysis. <i>Nano Letters</i> , 2020 , 20, 1846-1854	11.5	32
215	Label-free strategy for in-situ analysis of protein binding interaction based on attenuated total reflection surface enhanced infrared absorption spectroscopy (ATR-SEIRAS). <i>Langmuir</i> , 2012 , 28, 17564-70	7.0	32
214	Insights into the "free state" enzyme reaction kinetics in nanoconfinement. <i>Lab on A Chip</i> , 2013 , 13, 1546-53	7.53	32
213	A simple method for fabrication of sole composition nickel hexacyanoferrate modified electrode and its application. <i>Talanta</i> , 2009 , 80, 539-43	6.2	32
212	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, 811-8	7.2	32
211	Surface termination and hydrogen bubble adhesion on Si(100) surfaces during anisotropic dissolution in aqueous KOH. <i>Journal of Electroanalytical Chemistry</i> , 2006 , 597, 1-12	4.1	32
210	Self-Referenced Ratiometric Detection of Sulfatase Activity with Dual-Emissive Urease-Encapsulated Gold Nanoclusters. <i>ACS Sensors</i> , 2019 , 4, 344-352	9.2	32
209	Ice crystals growth driving assembly of porous nitrogen-doped graphene for catalyzing oxygen reduction probed by in situ fluorescence electrochemistry. <i>Scientific Reports</i> , 2014 , 4, 6723	4.9	31
208	Study on the photocatalytic reaction kinetics in a TiO nanoparticles coated microreactor integrated microfluidics device. <i>Talanta</i> , 2018 , 182, 544-548	6.2	31
207	Sensitive assay of protease activity on a micro/nanofluidics preconcentrator fused with the fluorescence resonance energy transfer detection technique. <i>Analytical Chemistry</i> , 2014 , 86, 3216-21	7.8	31
206	Direct electrochemistry of cytochrome c immobilized on a novel macroporous gold film coated with a self-assembled 11-mercaptopundecanoic acid monolayer. <i>Talanta</i> , 2010 , 82, 1164-9	6.2	31
205	Electrochemical detector for microchip electrophoresis of poly(dimethylsiloxane) with a three-dimensional adjustor. <i>Journal of Chromatography A</i> , 2004 , 1041, 245-8	4.5	31
204	A green approach to the synthesis of novel "Desert rose stone"-like nanobiocatalytic system with excellent enzyme activity and stability. <i>Scientific Reports</i> , 2014 , 4, 6606	4.9	30
203	Axial ligands tailoring the ORR activity of cobalt porphyrin. <i>Science Bulletin</i> , 2019 , 64, 1158-1166	10.6	30

202	Entrapment of protein in nanotubes formed by a nanochannel and ion-channel hybrid structure of anodic alumina. <i>Small</i> , 2012 , 8, 1001-5	11	30
201	An environment-friendly electrochemical detachment method for porous anodic alumina. <i>Journal of Electroanalytical Chemistry</i> , 2007 , 600, 257-264	4.1	30
200	Effect of Nanoemitters on Suppressing the Formation of Metal Adduct Ions in Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2017 , 89, 1838-1845	7.8	29
199	Highly stable and luminescent layered hybrid materials for sensitive detection of TNT explosives. <i>Analytical Chemistry</i> , 2015 , 87, 4530-7	7.8	29
198	Electrokinetic control of fluid in plastified laser-printed poly(ethylene terephthalate)-toner microchips. <i>Analytical and Bioanalytical Chemistry</i> , 2005 , 382, 192-7	4.4	29
197	Core-shell Ag@SiO ₂ nanoparticles concentrated on a micro/nanofluidic device for surface plasmon resonance-enhanced fluorescent detection of highly reactive oxygen species. <i>Analytical Chemistry</i> , 2014 , 86, 3013-9	7.8	28
196	A rapid and sensitive method for hydroxyl radical detection on a microfluidic chip using an N-doped porous carbon nanofiber modified pencil graphite electrode. <i>Analyst, The</i> , 2014 , 139, 3416-22	5	28
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