

Yuehe Lin

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563
papers

54,957
citations

116
h-index

214
g-index

581
ext. papers

61,279
ext. citations

8.8
avg, IF

8.09
L-index

#	Paper	IF	Citations
563	Graphene Based Electrochemical Sensors and Biosensors: A Review. <i>Electroanalysis</i> , 2010 , 22, 1027-1036	16.7	2430
562	Nitrogen-doped graphene and its application in electrochemical biosensing. <i>ACS Nano</i> , 2010 , 4, 1790-8	16.7	1777
561	Solubilization of carbon nanotubes by Nafion toward the preparation of amperometric biosensors. <i>Journal of the American Chemical Society</i> , 2003 , 125, 2408-9	16.4	1227
560	Graphene and graphene oxide: biofunctionalization and applications in biotechnology. <i>Trends in Biotechnology</i> , 2011 , 29, 205-12	15.1	1150
559	Glucose oxidase-graphene-chitosan modified electrode for direct electrochemistry and glucose sensing. <i>Biosensors and Bioelectronics</i> , 2009 , 25, 901-5	11.8	1026
558	Low-potential stable NADH detection at carbon-nanotube-modified glassy carbon electrodes. <i>Electrochemistry Communications</i> , 2002 , 4, 743-746	5.1	967
557	Aptamer/graphene oxide nanocomplex for in situ molecular probing in living cells. <i>Journal of the American Chemical Society</i> , 2010 , 132, 9274-6	16.4	951
556	Graphene/TiO ₂ nanocomposites: synthesis, characterization and application in hydrogen evolution from water photocatalytic splitting. <i>Journal of Materials Chemistry</i> , 2010 , 20, 2801		936
555	Electrochemical sensors and biosensors based on nanomaterials and nanostructures. <i>Analytical Chemistry</i> , 2015 , 87, 230-49	7.8	935
554	Nitrogen-doped graphene and its electrochemical applications. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7491		934
553	Glucose Biosensors Based on Carbon Nanotube Nanoelectrode Ensembles. <i>Nano Letters</i> , 2004 , 4, 191-195	5.5	769
552	Single-Atom Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13944-13960	16.4	756
551	Facile and controllable electrochemical reduction of graphene oxide and its applications. <i>Journal of Materials Chemistry</i> , 2010 , 20, 743-748		702
550	Highly efficient nonprecious metal catalysts towards oxygen reduction reaction based on three-dimensional porous carbon nanostructures. <i>Chemical Society Reviews</i> , 2016 , 45, 517-31	58.5	665
549	Novel catalyst support materials for PEM fuel cells: current status and future prospects. <i>Journal of Materials Chemistry</i> , 2009 , 19, 46-59		563
548	Enhanced activity and stability of Pt catalysts on functionalized graphene sheets for electrocatalytic oxygen reduction. <i>Electrochemistry Communications</i> , 2009 , 11, 954-957	5.1	562
547	Monodispersed core-shell Fe ₃ O ₄ @Au nanoparticles. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 21593-601	11.4	500

546	Engineering Ordered and Nonordered Porous Noble Metal Nanostructures: Synthesis, Assembly, and Their Applications in Electrochemistry. <i>Chemical Reviews</i> , 2015 , 115, 8896-943	68.1	470
545	Graphene based materials for biomedical applications. <i>Materials Today</i> , 2013 , 16, 365-373	21.8	467
544	A graphene-based electrochemical sensor for sensitive detection of paracetamol. <i>Talanta</i> , 2010 , 81, 7540-2	11.8	443
543	Robust noble metal-based electrocatalysts for oxygen evolution reaction. <i>Chemical Society Reviews</i> , 2019 , 48, 3181-3192	58.5	420
542	Sensitive immunosensor for cancer biomarker based on dual signal amplification strategy of graphene sheets and multienzyme functionalized carbon nanospheres. <i>Analytical Chemistry</i> , 2010 , 82, 2989-95	7.8	404
541	Biosensor based on self-assembling acetylcholinesterase on carbon nanotubes for flow injection/amperometric detection of organophosphate pesticides and nerve agents. <i>Analytical Chemistry</i> , 2006 , 78, 835-43	7.8	396
540	Protein-based nanomedicine platforms for drug delivery. <i>Small</i> , 2009 , 5, 1706-21	11	393
539	Electrochemical sensor for organophosphate pesticides and nerve agents using zirconia nanoparticles as selective sorbents. <i>Analytical Chemistry</i> , 2005 , 77, 5894-901	7.8	390
538	Direct assembly of large arrays of oriented conducting polymer nanowires. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 3665-8, 3520	16.4	378
537	Glucose biosensor based on immobilization of glucose oxidase in platinum nanoparticles/graphene/chitosan nanocomposite film. <i>Talanta</i> , 2009 , 80, 403-6	6.2	368
536	Stabilization of electrocatalytic metal nanoparticles at metal-metal oxide-graphene triple junction points. <i>Journal of the American Chemical Society</i> , 2011 , 133, 2541-7	16.4	352
535	Hierarchically Porous MN ₂ (M = Co and Fe) Single-Atom Electrocatalysts with Robust MN _x Active Moieties Enable Enhanced ORR Performance. <i>Advanced Energy Materials</i> , 2018 , 8, 1801956	21.8	351
534	Highly durable graphene nanoplatelets supported Pt nanocatalysts for oxygen reduction. <i>Journal of Power Sources</i> , 2010 , 195, 4600-4605	8.9	345
533	Graphene Decorated with PtAu Alloy Nanoparticles: Facile Synthesis and Promising Application for Formic Acid Oxidation. <i>Chemistry of Materials</i> , 2011 , 23, 1079-1081	9.6	342
532	Rapid and sensitive detection of protein biomarker using a portable fluorescence biosensor based on quantum dots and a lateral flow test strip. <i>Analytical Chemistry</i> , 2010 , 82, 7008-14	7.8	335
531	Constraint of DNA on functionalized graphene improves its biostability and specificity. <i>Small</i> , 2010 , 6, 1205-9	11	305
530	Platinum/Carbon nanotube nanocomposite synthesized in supercritical fluid as electrocatalysts for low-temperature fuel cells. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 14410-5	3.4	300
529	Functionalized graphene oxide as a nanocarrier in a multienzyme labeling amplification strategy for ultrasensitive electrochemical immunoassay of phosphorylated p53 (S392). <i>Analytical Chemistry</i> , 2011 , 83, 746-52	7.8	287

528	Nitrogen-doped mesoporous carbon for energy storage in vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2010 , 195, 4375-4379	8.9	276
527	Polyelectrolyte-induced reduction of exfoliated graphite oxide: a facile route to synthesis of soluble graphene nanosheets. <i>ACS Nano</i> , 2011 , 5, 1785-91	16.7	274
526	PtRu/carbon nanotube nanocomposite synthesized in supercritical fluid: a novel electrocatalyst for direct methanol fuel cells. <i>Langmuir</i> , 2005 , 21, 11474-9	4	274
525	Recent advances in electrochemical biosensors based on graphene two-dimensional nanomaterials. <i>Biosensors and Bioelectronics</i> , 2016 , 76, 195-212	11.8	271
524	Bimetallic Cobalt-Based Phosphide Zeolitic Imidazolate Framework: CoPx Phase-Dependent Electrical Conductivity and Hydrogen Atom Adsorption Energy for Efficient Overall Water Splitting. <i>Advanced Energy Materials</i> , 2017 , 7, 1601555	21.8	271
523	Electrostatic self-assembly of a Pt-around-Au nanocomposite with high activity towards formic acid oxidation. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 2211-4	16.4	270
522	Disposable Carbon Nanotube Modified Screen-Printed Biosensor for Amperometric Detection of Organophosphorus Pesticides and Nerve Agents. <i>Electroanalysis</i> , 2004 , 16, 145-149	3	267
521	Nanomaterials for bio-functionalized electrodes: recent trends. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 4878-4908	7.3	260
520	Nanomaterial labels in electrochemical immunosensors and immunoassays. <i>Talanta</i> , 2007 , 74, 308-17	6.2	252
519	Supercritical fluid synthesis and characterization of catalytic metal nanoparticles on carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2004 , 14, 908		229
518	Metal-Organic Framework-Derived Non-Precious Metal Nanocatalysts for Oxygen Reduction Reaction. <i>Advanced Energy Materials</i> , 2017 , 7, 1700363	21.8	228
517	Determination of organophosphate pesticides at a carbon nanotube/organophosphorus hydrolase electrochemical biosensor. <i>Analytica Chimica Acta</i> , 2005 , 530, 185-189	6.6	227
516	Functionalized carbon nanotubes and nanofibers for biosensing applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2008 , 27, 619-626	14.6	220
515	Self-Assembled Fe-N-Doped Carbon Nanotube Aerogels with Single-Atom Catalyst Feature as High-Efficiency Oxygen Reduction Electrocatalysts. <i>Small</i> , 2017 , 13, 1603407	11	207
514	Drug-Derived Bright and Color-Tunable N-Doped Carbon Dots for Cell Imaging and Sensitive Detection of Fe in Living Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 7399-7405	9.5	206
513	Nanomaterial-based biosensors for environmental and biological monitoring of organophosphorus pesticides and nerve agents. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 54, 1-10	14.6	203
512	MnO Nanosheet-Carbon Dots Sensing Platform for Sensitive Detection of Organophosphorus Pesticides. <i>Analytical Chemistry</i> , 2018 , 90, 2618-2624	7.8	203
511	Iron oxide-gold core-shell nanoparticles and thin film assembly. <i>Journal of Materials Chemistry</i> , 2005 , 15, 1821		202

510	When Nanozymes Meet Single-Atom Catalysis. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2565-2576	16.2	201
509	Disposable electrochemical immunosensor diagnosis device based on nanoparticle probe and immunochromatographic strip. <i>Analytical Chemistry</i> , 2007 , 79, 7644-53	7.8	199
508	Single-Atom Catalysts for Electrochemical Water Splitting. <i>ACS Energy Letters</i> , 2018 , 3, 1713-1721	20.1	198
507	Self assembly of acetylcholinesterase on a gold nanoparticles-graphene nanosheet hybrid for organophosphate pesticide detection using polyelectrolyte as a linker. <i>Journal of Materials Chemistry</i> , 2011 , 21, 5319		196
506	Amperometric glucose biosensor based on self-assembling glucose oxidase on carbon nanotubes. <i>Electrochemistry Communications</i> , 2006 , 8, 251-256	5.1	193
505	Templateless assembly of molecularly aligned conductive polymer nanowires: a new approach for oriented nanostructures. <i>Chemistry - A European Journal</i> , 2003 , 9, 604-11	4.8	192
504	pH-Sensitive ZnO Quantum Dots-Doxorubicin Nanoparticles for Lung Cancer Targeted Drug Delivery. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22442-50	9.5	192
503	Actinide sequestration using self-assembled monolayers on mesoporous supports. <i>Environmental Science & Technology</i> , 2005 , 39, 1324-31	10.3	191
502	Carbon quantum dots as fluorescence resonance energy transfer sensors for organophosphate pesticides determination. <i>Biosensors and Bioelectronics</i> , 2017 , 94, 292-297	11.8	190
501	Recent Advances in Electrochemical Immunosensors. <i>Analytical Chemistry</i> , 2017 , 89, 138-156	7.8	188
500	In situ simultaneous monitoring of ATP and GTP using a graphene oxide nanosheet-based sensing platform in living cells. <i>Nature Protocols</i> , 2014 , 9, 1944-55	18.8	187
499	Graphene Quantum Dot-MnO ₂ Nanosheet Based Optical Sensing Platform: A Sensitive Fluorescence "Turn Off-On" Nanosensor for Glutathione Detection and Intracellular Imaging. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 21990-6	9.5	183
498	Graphene-like 2D nanomaterial-based biointerfaces for biosensing applications. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 43-55	11.8	182
497	Self-supporting activated carbon/carbon nanotube/reduced graphene oxide flexible electrode for high performance supercapacitor. <i>Carbon</i> , 2018 , 129, 236-244	10.4	181
496	Graphene-like two-dimensional layered nanomaterials: applications in biosensors and nanomedicine. <i>Nanoscale</i> , 2015 , 7, 14217-31	7.7	180
495	In situ live cell sensing of multiple nucleotides exploiting DNA/RNA aptamers and graphene oxide nanosheets. <i>Analytical Chemistry</i> , 2013 , 85, 6775-82	7.8	178
494	Organic-phase biosensors for monitoring phenol and hydrogen peroxide in pharmaceutical antibacterial products. <i>Analyst, The</i> , 1993 , 118, 277-80	5	176
493	Graphene oxide modified TiO ₂ nanotube arrays: enhanced visible light photoelectrochemical properties. <i>Nanoscale</i> , 2012 , 4, 1800-4	7.7	175

492	Supercritical Fluid Fabrication of Metal Nanowires and Nanorods Templated by Multiwalled Carbon Nanotubes. <i>Advanced Materials</i> , 2003 , 15, 316-319	24	171
491	Quantum dot-based immunochromatographic fluorescent biosensor for biomonitoring trichloropyridinol, a biomarker of exposure to chlorpyrifos. <i>Analytical Chemistry</i> , 2010 , 82, 5125-33	7.8	162
490	Sensitive immunoassay of a biomarker tumor necrosis factor-alpha based on poly(guanine)-functionalized silica nanoparticle label. <i>Analytical Chemistry</i> , 2006 , 78, 6974-9	7.8	162
489	Supercritical fluid extraction of lanthanides and actinides from solid materials with a fluorinated .beta.-diketone. <i>Analytical Chemistry</i> , 1993 , 65, 2549-2551	7.8	162
488	Efficient Synthesis of MCu (M = Pd, Pt, and Au) Aerogels with Accelerated Gelation Kinetics and their High Electrocatalytic Activity. <i>Advanced Materials</i> , 2016 , 28, 8779-8783	24	161
487	Recent progress in nanostructured electrocatalysts for PEM fuel cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4631	13	157
486	Enhanced Photoelectrochemical Immunosensing Platform Based on CdSeTe@CdS:Mn Core-Shell Quantum Dots-Sensitized TiO ₂ Amplified by CuS Nanocrystals Conjugated Signal Antibodies. <i>Analytical Chemistry</i> , 2016 , 88, 3392-9	7.8	156
485	Selective sorption of cesium using self-assembled monolayers on mesoporous supports. <i>Environmental Science & Technology</i> , 2001 , 35, 3962-6	10.3	155
484	Oxidase-mimicking activity of ultrathin MnO nanosheets in colorimetric assay of acetylcholinesterase activity. <i>Nanoscale</i> , 2017 , 9, 2317-2323	7.7	152
483	Facile One-Step Synthesis of Three-Dimensional Pd-Ag Bimetallic Alloy Networks and Their Electrocatalytic Activity toward Ethanol Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 13842-8	9.5	151
482	Microfabricated isoelectric focusing device for direct electrospray ionization-mass spectrometry. <i>Electrophoresis</i> , 2000 , 21, 191-7	3.6	151
481	One-step electrochemical deposition of a graphene-ZrO ₂ nanocomposite: Preparation, characterization and application for detection of organophosphorus agents. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8032		150
480	Highly quaternized polystyrene ionomers for high performance anion exchange membrane water electrolyzers. <i>Nature Energy</i> , 2020 , 5, 378-385	62.3	147
479	A direct route toward assembly of nanoparticle-carbon nanotube composite materials. <i>Langmuir</i> , 2004 , 20, 6019-25	4	147
478	Nanomaterial-enhanced paper-based biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 58, 31-39	14.6	146
477	A microfabricated dialysis device for sample cleanup in electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , 1998 , 70, 3553-6	7.8	146
476	Acetylcholinesterase biosensor based on a gold nanoparticle-polypyrrole-reduced graphene oxide nanocomposite modified electrode for the amperometric detection of organophosphorus pesticides. <i>Analyst, The</i> , 2014 , 139, 3055-60	5	144
475	Carbon nanotubes decorated with Pt nanoparticles via electrostatic self-assembly: a highly active oxygen reduction electrocatalyst. <i>Journal of Materials Chemistry</i> , 2010 , 20, 2826		144

474	Voltammetric detection of lead(II) and mercury(II) using a carbon paste electrode modified with thiol self-assembled monolayer on mesoporous silica (SAMMS). <i>Analyst, The</i> , 2003 , 128, 467-72	5	144
473	Generation of multiple electrosprays using microfabricated emitter arrays for improved mass spectrometric sensitivity. <i>Analytical Chemistry</i> , 2001 , 73, 1658-63	7.8	143
472	Nanozyme-Mediated Dual Immunoassay Integrated with Smartphone for Use in Simultaneous Detection of Pathogens. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 40671-40680	9.5	142
471	A nanoparticle label/immunochemical electrochemical biosensor for rapid and sensitive detection of prostate-specific antigen. <i>Biosensors and Bioelectronics</i> , 2008 , 23, 1659-65	11.8	142
470	Recent progress in nanomaterials for gene delivery applications. <i>Biomaterials Science</i> , 2016 , 4, 1291-309	7.4	140
469	Interphases in Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1703082	21.8	137
468	Electrocatalytic reactivity for oxygen reduction of palladium-modified carbon nanotubes synthesized in supercritical fluid. <i>Electrochemistry Communications</i> , 2005 , 7, 267-274	5.1	137
467	Glucose Oxidase-Integrated Metal-Organic Framework Hybrids as Biomimetic Cascade Nanozymes for Ultrasensitive Glucose Biosensing. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22096-22101	9.5	134
466	Electrochemical stripping analysis of organophosphate pesticides and nerve agents. <i>Electrochemistry Communications</i> , 2005 , 7, 339-343	5.1	134
465	Covalent coupling of organophosphorus hydrolase loaded quantum dots to carbon nanotube/Au nanocomposite for enhanced detection of methyl parathion. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 1370-5	11.8	130
464	Facilely Tuning Porous NiCo ₂ O ₄ Nanosheets with Metal Valence-State Alteration and Abundant Oxygen Vacancies as Robust Electrocatalysts Towards Water Splitting. <i>Chemistry - A European Journal</i> , 2016 , 22, 4000-7	4.8	130
463	Synthesis of graphene nanosheets via oxalic acid-induced chemical reduction of exfoliated graphite oxide. <i>RSC Advances</i> , 2012 , 2, 1168-1173	3.7	129
462	Single-Channel Microchip for Fast Screening and Detailed Identification of Nitroaromatic Explosives or Organophosphate Nerve Agents. <i>Analytical Chemistry</i> , 2002 , 74, 1187-1191	7.8	129
461	Fe-N-C Single-Atom Nanozymes for the Intracellular Hydrogen Peroxide Detection. <i>Analytical Chemistry</i> , 2019 , 91, 11994-11999	7.8	128
460	A nanocomposite of carbon quantum dots and TiO ₂ nanotube arrays: enhancing photoelectrochemical and photocatalytic properties. <i>RSC Advances</i> , 2014 , 4, 1120-1127	3.7	128
459	Decorating catalytic palladium nanoparticles on carbon nanotubes in supercritical carbon dioxide. <i>Chemical Communications</i> , 2003 , 642-3	5.8	128
458	Nanoelectrode Arrays Based on Low Site Density Aligned Carbon Nanotubes. <i>Nano Letters</i> , 2003 , 3, 107-109	10.9	127
457	Supercritical fluid extraction of thorium and uranium ions from solid and liquid materials with fluorinated .Beta.-Diketones and tributyl phosphate. <i>Environmental Science & Technology</i> , 1994 , 28, 1190-3	10.3	127

456	Magnetic electrochemical immunoassays with quantum dot labels for detection of phosphorylated acetylcholinesterase in plasma. <i>Analytical Chemistry</i> , 2008 , 80, 8477-84	7.8	124
455	Simultaneous detection of cadmium, copper, and lead using a carbon paste electrode modified with carbamoylphosphonic acid self-assembled monolayer on mesoporous silica (SAMMS). <i>Analytica Chimica Acta</i> , 2004 , 502, 207-212	6.6	124
454	Sensitive electrochemical detection of enzymatically generated thiocholine at carbon nanotube modified glassy carbon electrode. <i>Electrochemistry Communications</i> , 2005 , 7, 1163-1169	5.1	124
453	Low-potential amperometric determination of hydrogen peroxide with a carbon paste electrode modified with nanostructured cryptomelane-type manganese oxides. <i>Electrochemistry Communications</i> , 2005 , 7, 166-172	5.1	123
452	Red carbon dots: Optical property regulations and applications. <i>Materials Today</i> , 2019 , 30, 52-79	21.8	122
451	Facile synthesis of PtAu alloy nanoparticles with high activity for formic acid oxidation. <i>Journal of Power Sources</i> , 2010 , 195, 1103-1106	8.9	119
450	Design of graphene sheets-supported Pt catalyst layer in PEM fuel cells. <i>Electrochemistry Communications</i> , 2011 , 13, 258-261	5.1	118
449	Ultrasensitive voltammetric detection of trace heavy metal ions using carbon nanotube nanoelectrode array. <i>Analyst, The</i> , 2005 , 130, 1098-101	5	118
448	Composition-controlled synthesis of bimetallic gold-silver nanoparticles. <i>Langmuir</i> , 2004 , 20, 11240-6	4	117
447	Highly Ordered Mesoporous Bimetallic Phosphides as Efficient Oxygen Evolution Electrocatalysts. <i>ACS Energy Letters</i> , 2016 , 1, 792-796	20.1	116
446	An integrated microfabricated device for dual microdialysis and on-line ESI-ion trap mass spectrometry for analysis of complex biological samples. <i>Analytical Chemistry</i> , 1999 , 71, 1485-90	7.8	116
445	Supercritical Fluid Extraction of Lanthanides with Fluorinated .beta.-Diketones and Tributyl Phosphate. <i>Analytical Chemistry</i> , 1994 , 66, 1971-1975	7.8	116
444	Electrochemical sensors for the detection of lead and other toxic heavy metals: the next generation of personal exposure biomonitors. <i>Environmental Health Perspectives</i> , 2007 , 115, 1683-90	8.4	115
443	Extracellular reduction of hexavalent chromium by cytochromes MtrC and OmcA of <i>Shewanella oneidensis</i> MR-1. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 4035-41	4.8	114
442	Nanoparticle-based electrochemical immunosensor for the detection of phosphorylated acetylcholinesterase: an exposure biomarker of organophosphate pesticides and nerve agents. <i>Chemistry - A European Journal</i> , 2008 , 14, 9951-9	4.8	114
441	Supercritical fluid extraction of uranium and thorium from nitric acid solutions with organophosphorus reagents. <i>Environmental Science & Technology</i> , 1995 , 29, 2706-8	10.3	112
440	Colloidal gold nanoparticle probe-based immunochromatographic assay for the rapid detection of chromium ions in water and serum samples. <i>Analytica Chimica Acta</i> , 2012 , 745, 99-105	6.6	111
439	Quantum-dot-based electrochemical immunoassay for high-throughput screening of the prostate-specific antigen. <i>Small</i> , 2008 , 4, 82-6	11	111

438	Carbon nanotube-based electrochemical sensor for assay of salivary cholinesterase enzyme activity: an exposure biomarker of organophosphate pesticides and nerve agents. <i>Environmental Science & Technology</i> , 2008 , 42, 2688-93	10.3	108
437	Integrated lateral flow test strip with electrochemical sensor for quantification of phosphorylated cholinesterase: biomarker of exposure to organophosphorus agents. <i>Analytical Chemistry</i> , 2012 , 84, 1380-5	7.8	107
436	Recent advances in carbon dots for bioimaging applications. <i>Nanoscale Horizons</i> , 2020 , 5, 218-234	10.8	107
435	Recent advances in functionalized MnO nanosheets for biosensing and biomedicine applications. <i>Nanoscale Horizons</i> , 2019 , 4, 321-338	10.8	106
434	Graphene and graphene-like 2D materials for optical biosensing and bioimaging: a review. <i>2D Materials</i> , 2015 , 2, 032004	5.9	106
433	Biosensor based on Prussian blue nanocubes/reduced graphene oxide nanocomposite for detection of organophosphorus pesticides. <i>Nanoscale</i> , 2012 , 4, 4674-9	7.7	106
432	Selective Removal of Copper(II) from Aqueous Solutions Using Fine-Grained Activated Carbon Functionalized with Amine. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 2759-2764	3.9	106
431	Single-Atom Nanozyme Based on Nanoengineered Fe-N-C Catalyst with Superior Peroxidase-Like Activity for Ultrasensitive Bioassays. <i>Small</i> , 2019 , 15, e1901485	11	105
430	Bioinspired Synthesis of All-in-One Organic-Inorganic Hybrid Nanoflowers Combined with a Handheld pH Meter for On-Site Detection of Food Pathogen. <i>Small</i> , 2016 , 12, 3094-100	11	105
429	3D graphene-based hybrid materials: synthesis and applications in energy storage and conversion. <i>Nanoscale</i> , 2016 , 8, 15414-47	7.7	105
428	Metal-organic frameworks-based catalysts for electrochemical oxygen evolution. <i>Materials Horizons</i> , 2019 , 6, 684-702	14.4	104
427	Carbon nanotubes (CNTs) for the development of electrochemical biosensors. <i>Frontiers in Bioscience - Landmark</i> , 2005 , 10, 492-505	2.8	104
426	Recent advances in emerging 2D nanomaterials for biosensing and bioimaging applications. <i>Materials Today</i> , 2018 , 21, 164-177	21.8	104
425	Far-Red to Near-Infrared Carbon Dots: Preparation and Applications in Biotechnology. <i>Small</i> , 2019 , 15, e1901507	11	103
424	The vital function of Fe ₃ O ₄ @Au nanocomposites for hydrolase biosensor design and its application in detection of methyl parathion. <i>Nanoscale</i> , 2013 , 5, 1121-6	7.7	103
423	Yolk-shell structured Sb@C anodes for high energy Na-ion batteries. <i>Nano Energy</i> , 2017 , 40, 504-511	17.1	103
422	Oxidase-Like Fe-N-C Single-Atom Nanozymes for the Detection of Acetylcholinesterase Activity. <i>Small</i> , 2019 , 15, e1903108	11	102
421	Sensitive detection of Escherichia coli O157:H7 using Pt-Au bimetal nanoparticles with peroxidase-like amplification. <i>Biosensors and Bioelectronics</i> , 2016 , 77, 687-94	11.8	101

420	Recent Advances in Biosensors for Detecting Cancer-Derived Exosomes. <i>Trends in Biotechnology</i> , 2019 , 37, 1236-1254	15.1	100
419	Design and synthesis of self-assembled monolayers on mesoporous supports (SAMMS): The importance of ligand posture in functional nanomaterials. <i>Journal of Materials Chemistry</i> , 2007 , 17, 2863		100
418	Electrochemical quantification of single-nucleotide polymorphisms using nanoparticle probes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 10394-401	16.4	99
417	Secondary-Atom-Assisted Synthesis of Single Iron Atoms Anchored on N-Doped Carbon Nanowires for Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2019 , 9, 5929-5934	13.1	98
416	Paper-Based Electrochemical Biosensors: From Test Strips to Paper-Based Microfluidics. <i>Electroanalysis</i> , 2014 , 26, 1214-1223	3	97
415	Lanthanide selective sorbents: self-assembled monolayers on mesoporous supports (SAMMS). <i>Journal of Materials Chemistry</i> , 2004 , 14, 3356		97
414	Nanovoid Incorporated IrxCu Metallic Aerogels for Oxygen Evolution Reaction Catalysis. <i>ACS Energy Letters</i> , 2018 , 3, 2038-2044	20.1	94
413	Nanomaterial-based electrochemical biosensors for food safety. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 781, 147-154	4.1	93
412	One-pot synthesis of B-doped three-dimensional reduced graphene oxide via supercritical fluid for oxygen reduction reaction. <i>Green Chemistry</i> , 2015 , 17, 3552-3560	10	92
411	Platinum nanocatalysts loaded on graphene oxide-dispersed carbon nanotubes with greatly enhanced peroxidase-like catalysis and electrocatalysis activities. <i>Nanoscale</i> , 2014 , 6, 8107-16	7.7	92
410	Multiplexed electrochemical immunoassay of phosphorylated proteins based on enzyme-functionalized gold nanorod labels and electric field-driven acceleration. <i>Analytical Chemistry</i> , 2011 , 83, 6580-5	7.8	92
409	The corrosion of PEM fuel cell catalyst supports and its implications for developing durable catalysts. <i>Electrochimica Acta</i> , 2009 , 54, 3109-3114	6.7	92
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