

Dan Du

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8115790/dan-du-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

330
papers

22,689
citations

81
h-index

132
g-index

341
ext. papers

26,615
ext. citations

9.3
avg, IF

7.51
L-index

#	Paper	IF	Citations
330	Electrochemical sensors and biosensors based on nanomaterials and nanostructures. <i>Analytical Chemistry</i> , 2015 , 87, 230-49	7.8	935
329	Single-Atom Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13944-13960	16.4	756
328	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
327	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
326	Graphene based materials for biomedical applications. <i>Materials Today</i> , 2013 , 16, 365-373	21.8	467
325	Robust noble metal-based electrocatalysts for oxygen evolution reaction. <i>Chemical Society Reviews</i> , 2019 , 48, 3181-3192	58.5	420
324	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
323	Hierarchically Porous MN _x (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
322	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
321	Recent advances in electrochemical biosensors based on graphene two-dimensional nanomaterials. <i>Biosensors and Bioelectronics</i> , 2016 , 76, 195-212	11.8	271
320	Bimetallic Cobalt-Based Phosphide Zeolitic Imidazolate Framework: CoP _x 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
319	Metal-Organic Framework-Derived Non-Precious Metal Nanocatalysts for Oxygen Reduction Reaction. <i>Advanced Energy Materials</i> , 2017 , 7, 1700363	21.8	228
318	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
317	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
316	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
315	MnO Nanosheet-Carbon Dots Sensing Platform for Sensitive Detection of Organophosphorus Pesticides. <i>Analytical Chemistry</i> , 2018 , 90, 2618-2624	7.8	203
314	When Nanozymes Meet Single-Atom Catalysis. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2565-2576	20.1	201

313	Single-Atom Catalysts for Electrochemical Water Splitting. <i>ACS Energy Letters</i> , 2018 , 3, 1713-1721	20.1	198
312	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
311	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
310	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
309	Recent Advances in Electrochemical Immunosensors. <i>Analytical Chemistry</i> , 2017 , 89, 138-156	7.8	188
308	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
307	Graphene-like 2D nanomaterial-based biointerfaces for biosensing applications. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 43-55	11.8	182
306	Graphene-like two-dimensional layered nanomaterials: applications in biosensors and nanomedicine. <i>Nanoscale</i> , 2015 , 7, 14217-31	7.7	180
305	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
304	Efficient Synthesis of M ₂ Cu (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
303	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
302	Oxidase-mimicking activity of ultrathin MnO nanosheets in colorimetric assay of acetylcholinesterase activity. <i>Nanoscale</i> , 2017 , 9, 2317-2323	7.7	152
301	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
300	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
299	Nanomaterial-enhanced paper-based biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 58, 31-39	14.6	146
298	Acetylcholinesterase biosensor based on a gold nanoparticle-poly pyrrole-reduced graphene oxide nanocomposite modified electrode for the amperometric detection of organophosphorus pesticides. <i>Analyst, The</i> , 2014 , 139, 3055-60	5	144
297	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
296	Recent progress in nanomaterials for gene delivery applications. <i>Biomaterials Science</i> , 2016 , 4, 1291-309	7.4	140

295	Acetylcholinesterase biosensor design based on carbon nanotube-encapsulated polypyrrole and polyaniline copolymer for amperometric detection of organophosphates. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 2503-8	11.8	137
294	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
293	Immobilization of acetylcholinesterase on gold nanoparticles embedded in sol-gel film for amperometric detection of organophosphorous insecticide. <i>Biosensors and Bioelectronics</i> , 2007 , 23, 130-4	11.8	133
292	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
291	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
290	Fe-N-C Single-Atom Nanozymes for the Intracellular Hydrogen Peroxide Detection. <i>Analytical Chemistry</i> , 2019 , 91, 11994-11999	7.8	128
289	Application of multiwalled carbon nanotubes for solid-phase extraction of organophosphate pesticide. <i>Electrochemistry Communications</i> , 2008 , 10, 85-89	5.1	126
288	Red carbon dots: Optical property regulations and applications. <i>Materials Today</i> , 2019 , 30, 52-79	21.8	122
287	Development of acetylcholinesterase biosensor based on CdTe quantum dots/gold nanoparticles modified chitosan microspheres interface. <i>Biosensors and Bioelectronics</i> , 2008 , 24, 475-9	11.8	121
286	Amperometric detection of triazophos pesticide using acetylcholinesterase biosensor based on multiwall carbon nanotube-chitosan matrix. <i>Sensors and Actuators B: Chemical</i> , 2007 , 127, 531-535	8.5	120
285	Highly Ordered Mesoporous Bimetallic Phosphides as Efficient Oxygen Evolution Electrocatalysts. <i>ACS Energy Letters</i> , 2016 , 1, 792-796	20.1	116
284	Electrochemical behavior of epinephrine at l-cysteine self-assembled monolayers modified gold electrode. <i>Talanta</i> , 2002 , 57, 687-92	6.2	111
283	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
282	Recent advances in carbon dots for bioimaging applications. <i>Nanoscale Horizons</i> , 2020 , 5, 218-234	10.8	107
281	Recent advances in functionalized MnO nanosheets for biosensing and biomedicine applications. <i>Nanoscale Horizons</i> , 2019 , 4, 321-338	10.8	106
280	Graphene and graphene-like 2D materials for optical biosensing and bioimaging: a review. <i>2D Materials</i> , 2015 , 2, 032004	5.9	106
279	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
278	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

277	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
276	3D graphene-based hybrid materials: synthesis and applications in energy storage and conversion. <i>Nanoscale</i> , 2016 , 8, 15414-47	7.7	105
275	Metal-organic frameworks-based catalysts for electrochemical oxygen evolution. <i>Materials Horizons</i> , 2019 , 6, 684-702	14.4	104
274	Recent advances in emerging 2D nanomaterials for biosensing and bioimaging applications. <i>Materials Today</i> , 2018 , 21, 164-177	21.8	104
273	Far-Red to Near-Infrared Carbon Dots: Preparation and Applications in Biotechnology. <i>Small</i> , 2019 , 15, e1901507	11	103
272	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
271	Oxidase-Like Fe-N-C Single-Atom Nanozymes for the Detection of Acetylcholinesterase Activity. <i>Small</i> , 2019 , 15, e1903108	11	102
270	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
269	Recent Advances in Biosensors for Detecting Cancer-Derived Exosomes. <i>Trends in Biotechnology</i> , 2019 , 37, 1236-1254	15.1	100
268	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
267	Paper-Based Electrochemical Biosensors: From Test Strips to Paper-Based Microfluidics. <i>Electroanalysis</i> , 2014 , 26, 1214-1223	3	97
266	Nanovoid Incorporated IrxCu Metallic Aerogels for Oxygen Evolution Reaction Catalysis. <i>ACS Energy Letters</i> , 2018 , 3, 2038-2044	20.1	94
265	Nanomaterial-based electrochemical biosensors for food safety. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 781, 147-154	4.1	93
264	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
263	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
262	Unprecedented peroxidase-mimicking activity of single-atom nanozyme with atomically dispersed Fe-N moieties hosted by MOF derived porous carbon. <i>Biosensors and Bioelectronics</i> , 2019 , 142, 111495	11.8	90
261	One-step synthesis of multiwalled carbon nanotubes-gold nanocomposites for fabricating amperometric acetylcholinesterase biosensor. <i>Sensors and Actuators B: Chemical</i> , 2010 , 143, 524-529	8.5	90
260	Porous Carbon-Hosted Atomically Dispersed Iron-Nitrogen Moiety as Enhanced Electrocatalysts for Oxygen Reduction Reaction in a Wide Range of pH. <i>Small</i> , 2018 , 14, e1703118	11	89

259	An Improved Ultrasensitive Enzyme-Linked Immunosorbent Assay Using Hydrangea-Like Antibody-Enzyme-Inorganic Three-in-One Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 6329-35	9.5	89
258	Colorimetric and chemiluminescent dual-readout immunochromatographic assay for detection of pesticide residues utilizing g-CN/BiFeO nanocomposites. <i>Biosensors and Bioelectronics</i> , 2018 , 106, 43-49	11.8	88
257	Multiwalled carbon nanotubes microcolumn preconcentration and determination of gold in geological and water samples by flame atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008 , 63, 714-717	3.1	88
256	A Nanozyme- and Ambient Light-Based Smartphone Platform for Simultaneous Detection of Dual Biomarkers from Exposure to Organophosphorus Pesticides. <i>Analytical Chemistry</i> , 2018 , 90, 7391-7398	7.8	88
255	An amperometric acetylthiocholine sensor based on immobilization of acetylcholinesterase on a multiwall carbon nanotube-cross-linked chitosan composite. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 387, 1059-65	4.4	86
254	Ultrafine and highly disordered Ni ₂ Fe ₁ nanofoams enabled highly efficient oxygen evolution reaction in alkaline electrolyte. <i>Nano Energy</i> , 2018 , 44, 319-326	17.1	85
253	Einzelatom-Elektrokatalysatoren. <i>Angewandte Chemie</i> , 2017 , 129, 14132-14148	3.6	83
252	Aptasensor based on fluorophore-quencher nano-pair and smartphone spectrum reader for on-site quantification of multi-pesticides. <i>Biosensors and Bioelectronics</i> , 2018 , 117, 75-83	11.8	82
251	Electrochemical antitumor drug sensitivity test for leukemia K562 cells at a carbon-nanotube-modified electrode. <i>Chemistry - A European Journal</i> , 2005 , 11, 1467-72	4.8	82
250	Electrochemical pesticide sensitivity test using acetylcholinesterase biosensor based on colloidal gold nanoparticle modified sol-gel interface. <i>Talanta</i> , 2008 , 74, 766-72	6.2	81
249	Comparison of pesticide sensitivity by electrochemical test based on acetylcholinesterase biosensor. <i>Biosensors and Bioelectronics</i> , 2007 , 23, 285-9	11.8	79
248	Sensitive acetylcholinesterase biosensor based on assembly of Cyclodextrins onto multiwall carbon nanotubes for detection of organophosphates pesticide. <i>Sensors and Actuators B: Chemical</i> , 2010 , 146, 337-341	8.5	77
247	Biomedical Potential of Ultrafine Ag/AgCl Nanoparticles Coated on Graphene with Special Reference to Antimicrobial Performances and Burn Wound Healing. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15067-75	9.5	77
246	One-step electrochemically deposited interface of chitosan-gold nanoparticles for acetylcholinesterase biosensor design. <i>Journal of Electroanalytical Chemistry</i> , 2007 , 605, 53-60	4.1	76
245	Single-Atom Iron Boosts Electrochemiluminescence. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3534-3538	16.4	76
244	Overcoming blood-brain barrier transport: Advances in nanoparticle-based drug delivery strategies. <i>Materials Today</i> , 2020 , 37, 112-125	21.8	75
243	Electrochemical immunoassay of membrane P-glycoprotein by immobilization of cells on gold nanoparticles modified on a methoxysilyl-terminated butyrylchitosan matrix. <i>Biochemistry</i> , 2005 , 44, 11539-45	3.2	74
242	Lysosome-targeted carbon dots for ratiometric imaging of formaldehyde in living cells. <i>Nanoscale</i> , 2019 , 11, 8458-8463	7.7	73

241	Polydopamine-Capped Bimetallic AuPt Hydrogels Enable Robust Biosensor for Organophosphorus Pesticide Detection. <i>Small</i> , 2019 , 15, e1900632	11	72
240	Electropolymerized multiwalled carbon nanotubes/polypyrrole fiber for solid-phase microextraction and its applications in the determination of pyrethroids. <i>Talanta</i> , 2011 , 84, 104-8	6.2	72
239	Biomonitoring of organophosphorus agent exposure by reactivation of cholinesterase enzyme based on carbon nanotube-enhanced flow-injection amperometric detection. <i>Analytical Chemistry</i> , 2009 , 81, 9314-20	7.8	72
238	Trends in cell-based electrochemical biosensors. <i>Current Medicinal Chemistry</i> , 2008 , 15, 3160-70	4.3	72
237	Magnetic electrochemical sensing platform for biomonitoring of exposure to organophosphorus pesticides and nerve agents based on simultaneous measurement of total enzyme amount and enzyme activity. <i>Analytical Chemistry</i> , 2011 , 83, 3770-7	7.8	71
236	Graphene-based immunosensor for electrochemical quantification of phosphorylated p53 (S15). <i>Analytica Chimica Acta</i> , 2011 , 699, 44-8	6.6	71
235	A Novel Nanoparticle-Based Disposable Electrochemical Immunosensor for Diagnosis of Exposure to Toxic Organophosphorus Agents. <i>Advanced Functional Materials</i> , 2011 , 21, 4371-4378	15.6	71
234	Colloidal gold nanoparticle modified carbon paste interface for studies of tumor cell adhesion and viability. <i>Biomaterials</i> , 2005 , 26, 6487-95	15.6	71
233	Ultrasonic-assisted synthesis of Pd-Pt/carbon nanotubes nanocomposites for enhanced electro-oxidation of ethanol and methanol in alkaline medium. <i>Ultrasonics Sonochemistry</i> , 2016 , 28, 192-198	8.9	70
232	One-step electrochemical deposition of Prussian Blue/multiwalled carbon nanotube nanocomposite thin-film: preparation, characterization and evaluation for H ₂ O ₂ sensing. <i>Journal of Materials Chemistry</i> , 2010 , 20, 1532-1537		70
231	2D Graphene Oxide/Fe-MOF Nanozyme Nest with Superior Peroxidase-Like Activity and Its Application for Detection of Woodsmoke Exposure Biomarker. <i>Analytical Chemistry</i> , 2019 , 91, 13847-13854	7.8	68
230	Dual-Readout Immunochromatographic Assay by Utilizing MnO Nanoflowers as the Unique Colorimetric/Chemiluminescent Probe. <i>Analytical Chemistry</i> , 2018 , 90, 5147-5152	7.8	68
229	Determination of trace aluminum in biological and water samples by cloud point extraction preconcentration and graphite furnace atomic absorption spectrometry detection. <i>Journal of Hazardous Materials</i> , 2008 , 154, 1127-32	12.8	68
228	Electrochemical immunoassay for CA125 based on cellulose acetate stabilized antigen/colloidal gold nanoparticles membrane. <i>Electrochimica Acta</i> , 2006 , 51, 1208-1214	6.7	67
227	Stripping voltammetric analysis of organophosphate pesticides based on solid-phase extraction at zirconia nanoparticles modified electrode. <i>Electrochemistry Communications</i> , 2008 , 10, 686-690	5.1	66
226	CdSe/ZnS quantum dots based electrochemical immunoassay for the detection of phosphorylated bovine serum albumin. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 1109-13	11.8	65
225	Optimization of cobalt/nitrogen embedded carbon nanotubes as an efficient bifunctional oxygen electrode for rechargeable zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4864-4870	13	64
224	A novel immunochromatographic electrochemical biosensor for highly sensitive and selective detection of trichloropyridinol, a biomarker of exposure to chlorpyrifos. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 2835-40	11.8	64

223	2D Single-Atom Catalyst with Optimized Iron Sites Produced by Thermal Melting of Metal-Organic Frameworks for Oxygen Reduction Reaction. <i>Small Methods</i> , 2020 , 4, 1900827	12.8	63
222	Immunological assay for carbohydrate antigen 19-9 using an electrochemical immunosensor and antigen immobilization in titania sol-gel matrix. <i>Journal of Immunological Methods</i> , 2003 , 283, 67-75	2.5	62
221	Cathodic electrochemical analysis of methyl parathion at bismuth-film-modified glassy carbon electrode. <i>Electrochimica Acta</i> , 2008 , 53, 4478-4484	6.7	61
220	Detection of p53 Protein Based on Mesoporous PtPd Nanoparticles with Enhanced Peroxidase-like Catalysis. <i>ACS Sensors</i> , 2016 , 1, 717-724	9.2	61
219	A portable smart-phone device for rapid and sensitive detection of E. coli O157:H7 in Yoghurt and Egg. <i>Biosensors and Bioelectronics</i> , 2018 , 99, 479-485	11.8	61
218	Low Pt-content ternary PdCuPt nanodendrites: an efficient electrocatalyst for oxygen reduction reaction. <i>Nanoscale</i> , 2017 , 9, 1279-1284	7.7	59
217	Metal-organic framework based nanozymes: promising materials for biochemical analysis. <i>Chemical Communications</i> , 2020 , 56, 11338-11353	5.8	59
216	PdCuPt Nanocrystals with Multibranches for Enzyme-Free Glucose Detection. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22196-200	9.5	59
215	Smart Drug Delivery System-Inspired Enzyme-Linked Immunosorbent Assay Based on Fluorescence Resonance Energy Transfer and Allochroic Effect Induced Dual-Modal Colorimetric and Fluorescent Detection. <i>Analytical Chemistry</i> , 2018 , 90, 1976-1982	7.8	58
214	Recognition of dimethoate carried by bi-layer electrodeposition of silver nanoparticles and imprinted poly-o-phenylenediamine. <i>Electrochimica Acta</i> , 2008 , 53, 6589-6595	6.7	58
213	In Vitro Study of Receptor-Mediated Silica Nanoparticles Delivery across Blood-Brain Barrier. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20410-20416	9.5	57
212	A bare-eye-based lateral flow immunoassay based on the use of gold nanoparticles for simultaneous detection of three pesticides. <i>Mikrochimica Acta</i> , 2014 , 181, 1565-1572	5.8	57
211	A 3D-Printed, Portable, Optical-Sensing Platform for Smartphones Capable of Detecting the Herbicide 2,4-Dichlorophenoxyacetic Acid. <i>Analytical Chemistry</i> , 2017 , 89, 9339-9346	7.8	57
210	Smart phone based immunosensor coupled with nanoflower signal amplification for rapid detection of Salmonella Enteritidis in milk, cheese and water. <i>Sensors and Actuators B: Chemical</i> , 2018 , 261, 75-82	8.5	57
209	When Nanozymes Meet Single-Atom Catalysis. <i>Angewandte Chemie</i> , 2020 , 132, 2585-2596	3.6	55
208	Fluorescent silicon nanoparticles-based ratiometric fluorescence immunoassay for sensitive detection of ethyl carbamate in red wine. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 2742-2749	8.5	54
207	Mitochondrial-targeted multifunctional mesoporous Au@Pt nanoparticles for dual-mode photodynamic and photothermal therapy of cancers. <i>Nanoscale</i> , 2017 , 9, 15813-15824	7.7	54
206	Intermetallic Pd ₃ Pb nanowire networks boost ethanol oxidation and oxygen reduction reactions with significantly improved methanol tolerance. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23952-23959	13	53

205	Au@Pd Nanopopcorn and Aptamer Nanoflower Assisted Lateral Flow Strip for Thermal Detection of Exosomes. <i>Analytical Chemistry</i> , 2019 , 91, 13986-13993	7.8	53
204	One-pot bioinspired synthesis of all-inclusive protein-protein nanoflowers for point-of-care bioassay: detection of E. coli O157:H7 from milk. <i>Nanoscale</i> , 2016 , 8, 18980-18986	7.7	53
203	3-D Printed Adjustable Microelectrode Arrays for Electrochemical Sensing and Biosensing. <i>Sensors and Actuators B: Chemical</i> , 2016 , 230, 600-606	8.5	53
202	Emerging applications of nanozymes in environmental analysis: Opportunities and trends. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 120, 115653	14.6	52
201	Rhodamine-based ratiometric fluorescence sensing for the detection of mercury(II) in aqueous solution. <i>Talanta</i> , 2010 , 81, 433-7	6.2	52
200	Pt-Ni(OH) nanosheets amplified two-way lateral flow immunoassays with smartphone readout for quantification of pesticides. <i>Biosensors and Bioelectronics</i> , 2019 , 142, 111498	11.8	51
199	Preparation, characterization of Fe ₃ O ₄ at TiO ₂ magnetic nanoparticles and their application for immunoassay of biomarker of exposure to organophosphorus pesticides. <i>Biosensors and Bioelectronics</i> , 2013 , 41, 669-74	11.8	51
198	Methyl parathion hydrolase based nanocomposite biosensors for highly sensitive and selective determination of methyl parathion. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 4320-5	11.8	51
197	Three-dimensional PtNi hollow nanochains as an enhanced electrocatalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8755-8761	13	51
196	Smartphone Optosensing Platform Using a DVD Grating to Detect Neurotoxins. <i>ACS Sensors</i> , 2016 , 1, 366-373	9.2	50
195	A dopamine-induced Au hydrogel nanozyme for enhanced biomimetic catalysis. <i>Chemical Communications</i> , 2019 , 55, 9865-9868	5.8	50
194	A Facile Method for Synthesizing Dendritic CoreShell Structured Ternary Metallic Aerogels and Their Enhanced Electrochemical Performances. <i>Chemistry of Materials</i> , 2016 , 28, 7928-7934	9.6	50
193	Mesoporous Pt Nanotubes as a Novel Sensing Platform for Sensitive Detection of Intracellular Hydrogen Peroxide. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24288-95	9.5	49
192	Hyaluronic acid-conjugated apoferritin nanocages for lung cancer targeted drug delivery. <i>Biomaterials Science</i> , 2015 , 3, 1386-94	7.4	49
191	Sugar Blowing-Induced Porous Cobalt Phosphide/Nitrogen-Doped Carbon Nanostructures with Enhanced Electrochemical Oxidation Performance toward Water and Other Small Molecules. <i>Small</i> , 2017 , 13, 1700796	11	49
190	Highly sensitive and selective immuno-capture/electrochemical assay of acetylcholinesterase activity in red blood cells: a biomarker of exposure to organophosphorus pesticides and nerve agents. <i>Environmental Science & Technology</i> , 2012 , 46, 1828-33	10.3	49
189	One-step electrodeposition of a molecularly imprinting chitosan/phenyltrimethoxysilane/AuNPs hybrid film and its application in the selective determination of p-nitrophenol. <i>Analyst, The</i> , 2013 , 138, 2761-8	5	49
188	Reagentless amperometric carbohydrate antigen 19-9 immunosensor based on direct electrochemistry of immobilized horseradish peroxidase. <i>Talanta</i> , 2007 , 71, 1257-62	6.2	49

187	Integrating ionic liquids with molecular imprinting technology for biorecognition and biosensing: A review. <i>Biosensors and Bioelectronics</i> , 2020 , 149, 111830	11.8	49
186	Single-atom catalysts boost signal amplification for biosensing. <i>Chemical Society Reviews</i> , 2021 , 50, 750-765	11.8	49
185	Ultrasonic-assisted synthesis of carbon nanotube supported bimetallic PtRu nanoparticles for effective methanol oxidation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8459-8465	13	48
184	Metal-organic framework derived hierarchically porous nitrogen-doped carbon nanostructures as novel electrocatalyst for oxygen reduction reaction. <i>Electrochimica Acta</i> , 2015 , 178, 287-293	6.7	48
183	One-Pot Fabrication of Mesoporous Core-Shell Au@PtNi Ternary Metallic Nanoparticles and Their Enhanced Efficiency for Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 4739-44	9.5	48
182	Highly branched PtCu bimetallic alloy nanodendrites with superior electrocatalytic activities for oxygen reduction reactions. <i>Nanoscale</i> , 2016 , 8, 5076-81	7.7	48
181	Recent progress in biosensors based on organic-inorganic hybrid nanoflowers. <i>Biosensors and Bioelectronics</i> , 2018 , 120, 175-187	11.8	48
180	Tandem catalysis driven by enzymes directed hybrid nanoflowers for on-site ultrasensitive detection of organophosphorus pesticide. <i>Biosensors and Bioelectronics</i> , 2019 , 141, 111473	11.8	48
179	Differential pulse voltammetry determination of ascorbic acid with ferrocene-l-cysteine self-assembled supramolecular film modified electrode. <i>Sensors and Actuators B: Chemical</i> , 2004 , 97, 373-378	8.5	48
178	Recent advances in nanomaterials-based electrochemical (bio)sensors for pesticides detection. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 132, 116041	14.6	48
177	Micro additive manufacturing of glucose biosensors: A feasibility study. <i>Analytica Chimica Acta</i> , 2018 , 1043, 142-149	6.6	48
176	Glucose encapsulating liposome for signal amplification for quantitative detection of biomarkers with glucometer readout. <i>Biosensors and Bioelectronics</i> , 2015 , 72, 348-54	11.8	47
175	Hyaluronic Acid-Modified Multifunctional Q-Graphene for Targeted Killing of Drug-Resistant Lung Cancer Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 4048-55	9.5	47
174	Enhanced Electrocatalytic Activities of PtCuCoNi Three-Dimensional Nanoporous Quaternary Alloys for Oxygen Reduction and Methanol Oxidation Reactions. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 6110-6	9.5	47
173	Assembly of carbon nanotubes on a nanoporous gold electrode for acetylcholinesterase biosensor design. <i>Sensors and Actuators B: Chemical</i> , 2014 , 199, 284-290	8.5	47
172	Magnetic Fe ₃ O ₄ @TiO ₂ nanoparticles-based test strip immunosensing device for rapid detection of phosphorylated butyrylcholinesterase. <i>Biosensors and Bioelectronics</i> , 2013 , 50, 486-91	11.8	47
171	Immobilization of acetylcholinesterase based on the controllable adsorption of carbon nanotubes onto an alkanethiol monolayer for carbaryl sensing. <i>Analyst, The</i> , 2008 , 133, 1790-5	5	47
170	Application of chemisorption/desorption process of thiocholine for pesticide detection based on acetylcholinesterase biosensor. <i>Sensors and Actuators B: Chemical</i> , 2008 , 134, 908-912	8.5	47

169	Studies on the Electrochemical Behaviour of Hydroquinone at L-cysteine Self-Assembled Monolayers Modified Gold Electrode. <i>Sensors</i> , 2002 , 2, 41-49	3.8	47
168	Electrochemical thiocholine inhibition sensor based on biocatalytic growth of Au nanoparticles using chitosan as template. <i>Sensors and Actuators B: Chemical</i> , 2007 , 127, 317-322	8.5	46
167	Development of acetylcholinesterase biosensor based on CdTe quantum dots modified cysteamine self-assembled monolayers. <i>Journal of Electroanalytical Chemistry</i> , 2008 , 623, 81-85	4.1	46
166	Graphene/silver nanohybrids for ultrasensitive surface enhanced Raman spectroscopy: size dependence of silver nanoparticles. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 6850	7.1	45
165	Determination of carbaryl pesticide using amperometric acetylcholinesterase sensor formed by electrochemically deposited chitosan. <i>Colloids and Surfaces B: Biointerfaces</i> , 2007 , 58, 145-50	6	45
164	One-step synthesis of cobalt and nitrogen co-doped carbon nanotubes and their catalytic activity for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 12718-12722	13	44
163	Preparation and characterization of Au/ZrO ₂ /SiO ₂ nanocomposite spheres and their application in enrichment and detection of organophosphorus agents. <i>Journal of Materials Chemistry</i> , 2012 , 22, 4977		44
162	Kinetically Controlled Synthesis of Pt-Based One-Dimensional Hierarchically Porous Nanostructures with Large Mesopores as Highly Efficient ORR Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 35213-35218	9.5	44
161	Graphene loaded bimetallic Au@Pt nanodendrites enhancing ultrasensitive electrochemical immunoassay of AFP. <i>Sensors and Actuators B: Chemical</i> , 2016 , 231, 513-519	8.5	44
160	Graphene-based materials for biosensing and bioimaging. <i>MRS Bulletin</i> , 2012 , 37, 1290-1296	3.2	43
159	A disposable impedance sensor for electrochemical study and monitoring of adhesion and proliferation of K562 leukaemia cells. <i>Electrochemistry Communications</i> , 2007 , 9, 953-958	5.1	43
158	Comparison of drug sensitivity using acetylcholinesterase biosensor based on nanoparticles/chitosan sol-gel composite. <i>Journal of Electroanalytical Chemistry</i> , 2007 , 611, 60-66	4.1	43
157	Nitrogen and Fluorine-Codoped Carbon Nanowire Aerogels as Metal-Free Electrocatalysts for Oxygen Reduction Reaction. <i>Chemistry - A European Journal</i> , 2017 , 23, 10460-10464	4.8	42
156	A review of optical probes based on nanomaterials for the detection of hydrogen sulfide in biosystems. <i>Analytica Chimica Acta</i> , 2019 , 1061, 1-12	6.6	41
155	Graphene-like Metal-Free 2D Nanosheets for Cancer Imaging and Theranostics. <i>Trends in Biotechnology</i> , 2018 , 36, 1145-1156	15.1	41
154	Nanoparticle-based immunosensor with apoferritin templated metallic phosphate label for quantification of phosphorylated acetylcholinesterase. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 3857-63	11.8	41
153	Versatile Barometer Biosensor Based on Au@Pt Core/Shell Nanoparticle Probe. <i>ACS Sensors</i> , 2017 , 2, 789-795	9.2	40
152	Carbon nanotube-linked hollow carbon nanospheres doped with iron and nitrogen as single-atom catalysts for the oxygen reduction reaction in acidic solutions. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14478-14482	13	40

151	Rapid determination of triazophos using acetylcholinesterase biosensor based on sol-gel interface assembling multiwall carbon nanotubes. <i>Journal of Applied Electrochemistry</i> , 2007 , 37, 893-898	2.6	40
150	Highly photoluminescent carbon dots derived from linseed and their applications in cellular imaging and sensing. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 3181-3187	7.3	39
149	Ultrafine Pd ensembles anchored-Au ₂ Cu aerogels boost ethanol electrooxidation. <i>Nano Energy</i> , 2018 , 53, 206-212	17.1	39
148	Review Nanozyme-Based Immunosensors and Immunoassays: Recent Developments and Future Trends. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 037508	3.9	39
147	Two-Dimensional N,S-Codoped Carbon/CoS Catalysts Derived from Co(OH) Nanosheets for Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 36755-36761	9.5	38
146	Newly Designed Graphene Cellular Monolith Functionalized with Hollow Pt-M (M = Ni, Co) Nanoparticles as the Electrocatalyst for Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 25863-25874	9.5	38
145	Ultrathin dendritic IrTe nanotubes for an efficient oxygen evolution reaction in a wide pH range. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8855-8859	13	37
144	A review on emerging principles and strategies for colorimetric and fluorescent detection of alkaline phosphatase activity. <i>Analytica Chimica Acta</i> , 2019 , 1086, 29-45	6.6	37
143	Bioinspired nanoscale materials for biomedical and energy applications. <i>Journal of the Royal Society Interface</i> , 2014 , 11, 20131067	4.1	37
142	Rational design and application of molecularly imprinted sol-gel polymer for the electrochemically selective and sensitive determination of Sudan I. <i>Talanta</i> , 2011 , 84, 451-6	6.2	37
141	Oxidative desorption of thiocholine assembled on core-shell Fe ₃ O ₄ /AuNPs magnetic nanocomposites for highly sensitive determination of acetylcholinesterase activity: an exposure biomarker of organophosphates. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 4231-5	11.8	37
140	Rapid and sensitive detection of microRNA via the capture of fluorescent dyes-loaded albumin nanoparticles around functionalized magnetic beads. <i>Biosensors and Bioelectronics</i> , 2017 , 94, 56-62	11.8	36
139	Core-shell PdPb@Pd aerogels with multiply-twinned intermetallic nanostructures: facile synthesis with accelerated gelation kinetics and their enhanced electrocatalytic properties. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7517-7521	13	36
138	Enzyme-linked immunosorbent assay for detection of organophosphorylated butyrylcholinesterase: a biomarker of exposure to organophosphate agents. <i>Analytica Chimica Acta</i> , 2011 , 693, 1-6	6.6	36
137	Electrically Switched Ion Exchange Based on Polypyrrole and Carbon Nanotube Nanocomposite for the Removal of Chromium(VI) from Aqueous Solution. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 768-774	3.9	35
136	Kinetically controlled synthesis of AuPt bi-metallic aerogels and their enhanced electrocatalytic performances. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19626-19631	13	35
135	Interconnected Fe, S, N-Codoped Hollow and Porous Carbon Nanorods as Efficient Electrocatalysts for the Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 40298-40306	9.5	35
134	A disposable sensor based on immobilization of acetylcholinesterase to multiwall carbon nanotube modified screen-printed electrode for determination of carbaryl. <i>Journal of Applied Electrochemistry</i> , 2008 , 38, 1217-1222	2.6	35

133	Nanozyme-involved biomimetic cascade catalysis for biomedical applications. <i>Materials Today</i> , 2021 , 44, 211-228	21.8	35
132	Tubular titanium oxide/reduced graphene oxide-sulfur composite for improved performance of lithium sulfur batteries. <i>Carbon</i> , 2018 , 128, 63-69	10.4	35
131	Integrating in situ formation of nanozymes with three-dimensional dendritic mesoporous silica nanospheres for hypoxia-overcoming photodynamic therapy. <i>Nanoscale</i> , 2018 , 10, 22937-22945	7.7	35
130	SWCNTs@GQDs composites as nanocarriers for enzyme-free dual-signal amplification electrochemical immunoassay of cancer biomarker. <i>Analytica Chimica Acta</i> , 2018 , 1042, 44-51	6.6	34
129	Electrochemical detection of dual exposure biomarkers of organophosphorus agents based on reactivation of inhibited cholinesterase. <i>Analytical Chemistry</i> , 2013 , 85, 9686-91	7.8	34
128	Catalytic Activity of CoX (X = S, P, O) and Its Dependency on Nanostructure/Chemical Composition in LithiumSulfur Batteries. <i>ACS Applied Energy Materials</i> , 2018 , 1, 7014-7021	6.1	34
127	Polyoxometalate-Graphene Nanocomposite Modified Electrode for Electrocatalytic Detection of Ascorbic Acid. <i>Electroanalysis</i> , 2014 , 26, 178-183	3	33
126	A gold nanoparticle labeling strategy for the sensitive kinetic assay of the carbamate-acetylcholinesterase interaction by surface plasmon resonance. <i>Talanta</i> , 2009 , 78, 1036-42	6.2	33
125	Atomically Isolated Iron Atom Anchored on Carbon Nanotubes for Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 39820-39826	9.5	32
124	Recent progress on nanomaterial-based biosensors for veterinary drug residues in animal-derived food. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 83, 95-101	14.6	32
123	Boosting the activity of Fe-Nx moieties in Fe-N-C electrocatalysts via phosphorus doping for oxygen reduction reaction. <i>Science China Materials</i> , 2020 , 63, 965-971	7.1	31
122	Nanoparticle-based immunochromatographic test strip with fluorescent detector for quantification of phosphorylated acetylcholinesterase: an exposure biomarker of organophosphorus agents. <i>Analyst, The</i> , 2013 , 138, 5431-6	5	30
121	pH-Responsive ZnO Nanocluster for Lung Cancer Chemotherapy. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5739-5747	9.5	29
120	Bioinspired Peptoid Nanotubes for Targeted Tumor Cell Imaging and Chemo-Photodynamic Therapy. <i>Small</i> , 2019 , 15, e1902485	11	29
119	Self-Assembly of All-Inclusive Allochroic Nanoparticles for the Improved ELISA. <i>Analytical Chemistry</i> , 2019 , 91, 8461-8465	7.8	29
118	Ternary PtRuCu aerogels for enhanced methanol electrooxidation. <i>Nanoscale</i> , 2019 , 11, 10575-10580	7.7	29
117	Electrochemical Immunoassay of Human Chorionic Gonadotrophin Based on Its Immobilization in Gold Nanoparticles-Chitosan Membrane. <i>Electroanalysis</i> , 2006 , 18, 670-676	3	29
116	"On-Off-On" fluorescence sensor based on g-CN nanosheets for selective and sequential detection of Ag and S. <i>Talanta</i> , 2017 , 168, 168-173	6.2	28

115	One-step synthesis of carbon nanosheet-decorated carbon nanofibers as a 3D interconnected porous carbon scaffold for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23737-23743	13	28
114	Direct analysis of trichloropyridinol in human saliva using an Au nanoparticles-based immunochromatographic test strip for biomonitoring of exposure to chlorpyrifos. <i>Talanta</i> , 2013 , 114, 261-7	6.2	28
113	Preparation and electrochemical properties of Keggin-type phosphomolybdic anions in electrostatically linked L-cysteine self-assembled monolayers. <i>Sensors and Actuators B: Chemical</i> , 2003 , 94, 282-289	8.5	28
112	Aptamer functionalized nanomaterials for biomedical applications: Recent advances and new horizons. <i>Nano Today</i> , 2021 , 39, 101177	17.9	28
111	Solvent co-mediated synthesis of ultrathin BiOCl nanosheets with highly efficient visible-light photocatalytic activity. <i>RSC Advances</i> , 2017 , 7, 10235-10241	3.7	27
110	A nonenzymatic electrochemical glucose sensor based on mesoporous Au/Pt nanodendrites. <i>RSC Advances</i> , 2015 , 5, 82617-82622	3.7	27
109	Cytotoxic cassaine diterpenoid-diterpenoid amide dimers and diterpenoid amides from the leaves of <i>Erythrophleum fordii</i> . <i>Phytochemistry</i> , 2010 , 71, 1749-55	4	27
108	Highly uniform distribution of Pt nanoparticles on N-doped hollow carbon spheres with enhanced durability for oxygen reduction reaction. <i>RSC Advances</i> , 2017 , 7, 6303-6308	3.7	26
107	Rapid and selective detection of Fe (III) by using a smartphone-based device as a portable detector and hydroxyl functionalized metal-organic frameworks as the fluorescence probe. <i>Analytica Chimica Acta</i> , 2019 , 1077, 160-166	6.6	26
106	In situ electrodeposited nanoparticles for facilitating electron transfer across self-assembled monolayers in biosensor design. <i>Talanta</i> , 2008 , 74, 1337-43	6.2	26
105	Synthesis and characterization of bimetallic ruthenium complexes connected through linear (CH) ₁₄ chain. <i>Journal of Organometallic Chemistry</i> , 2007 , 692, 3588-3592	2.3	26
104	CdTe nanocrystal-based electrochemical biosensor for the recognition of neutravidin by anodic stripping voltammetry at electrodeposited bismuth film. <i>Biosensors and Bioelectronics</i> , 2008 , 24, 869-74	11.8	26
103	Construction of a biomimetic zwitterionic interface for monitoring cell proliferation and apoptosis. <i>Langmuir</i> , 2005 , 21, 8394-9	4	26
102	Electrochemical Immunoassays Based on Graphene: A Review. <i>Electroanalysis</i> , 2016 , 28, 4-12	3	26
101	Efficient Cytosolic Delivery Using Crystalline Nanoflowers Assembled from Fluorinated Peptoids. <i>Small</i> , 2018 , 14, e1803544	11	26
100	MnO Nanotube-Based NanoSearchlight for Imaging of Multiple MicroRNAs in Live Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 23325-23332	9.5	25
99	High-performance dual-channel ratiometric colorimetric sensing of phosphate ion based on target-induced differential oxidase-like activity changes of Ce-Zr bimetal-organic frameworks. <i>Sensors and Actuators B: Chemical</i> , 2020 , 321, 128546	8.5	25
98	Controlling the Charge State and Redox Properties of Supported Polyoxometalates via Soft Landing of Mass-Selected Ions. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 27611-27622	3.8	25

97	Synthesis, biological evaluation, and molecular modeling of glycyrrhizin derivatives as potent high-mobility group box-1 inhibitors with anti-heart-failure activity in vivo. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 97-108	8.3	25
96	Nanomaterial-based sensors and biosensors for enhanced inorganic arsenic detection: A functional perspective. <i>Sensors and Actuators B: Chemical</i> , 2020 , 315, 128100	8.5	24
95	Enhanced electrocatalytic activities of three dimensional PtCu@Pt bimetallic alloy nanofoams for oxygen reduction reaction. <i>Catalysis Science and Technology</i> , 2016 , 6, 5052-5059	5.5	24
94	Ambient light sensor based colorimetric dipstick reader for rapid monitoring organophosphate pesticides on a smart phone. <i>Analytica Chimica Acta</i> , 2019 , 1092, 126-131	6.6	24
93	An Ion-Imprinting Derived Strategy to Synthesize Single-Atom Iron Electrocatalysts for Oxygen Reduction. <i>Small</i> , 2021 , 17, e2004454	11	24
92	Three-dimensional Nitrogen-Doped Reduced Graphene Oxide/Carbon Nanotube Composite Catalysts for Vanadium Flow Batteries. <i>Electroanalysis</i> , 2017 , 29, 1469-1473	3	23
91	Template-directed synthesis of nitrogen- and sulfur-codoped carbon nanowire aerogels with enhanced electrocatalytic performance for oxygen reduction. <i>Nano Research</i> , 2017 , 10, 1888-1895	10	23
90	A universal lateral flow biosensor for proteins and DNAs based on the conformational change of hairpin oligonucleotide and its use for logic gate operations. <i>Biosensors and Bioelectronics</i> , 2014 , 61, 598-604	11.8	23
89	Noble Metal Aerogels. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 52234-52250	9.5	23
88	Dispersive Single-Atom Metals Anchored on Functionalized Nanocarbons for Electrochemical Reactions. <i>Topics in Current Chemistry</i> , 2019 , 377, 4	7.2	23
87	Accurate and easy-to-use assessment of contiguous DNA methylation sites based on proportion competitive quantitative-PCR and lateral flow nucleic acid biosensor. <i>Biosensors and Bioelectronics</i> , 2016 , 80, 654-660	11.8	22
86	Protein adsorption and cell adhesion controlled by the surface chemistry of binary perfluoroalkyl/oligo(ethylene glycol) self-assembled monolayers. <i>Journal of Colloid and Interface Science</i> , 2013 , 402, 284-90	9.3	22
85	Recognition of glycoprotein peroxidase via Con A-carrying self-assembly layer on gold. <i>Biomacromolecules</i> , 2007 , 8, 2142-8	6.9	22
84	Single-Atomic Site Catalyst with Heme Enzymes-Like Active Sites for Electrochemical Sensing of Hydrogen Peroxide. <i>Small</i> , 2021 , 17, e2100664	11	22
83	Nanozyme Enhanced Colorimetric Immunoassay for Naked-Eye Detection of Salmonella Enteritidis. <i>Journal of Analysis and Testing</i> , 2019 , 3, 99-106	3.2	22
82	pH-responsive allochroic nanoparticles for the multicolor detection of breast cancer biomarkers. <i>Biosensors and Bioelectronics</i> , 2020 , 148, 111780	11.8	22
81	Switchable Photoacoustic Imaging of Glutathione Using MnO Nanotubes for Cancer Diagnosis. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 44231-44239	9.5	22
80	Molecularly imprinted polypyrrole nanotubes based electrochemical sensor for glyphosate detection. <i>Biosensors and Bioelectronics</i> , 2021 , 191, 113434	11.8	22

79	Magnetic particle-based immunoassay of phosphorylated p53 using protein cage templated lead phosphate and carbon nanospheres for signal amplification. <i>RSC Advances</i> , 2012 , 2, 11029	3.7	21
78	Development of a Specific Enzyme-Linked Immunosorbent Assay (ELISA) for the Analysis of the Organophosphorous Pesticide Fenthion in Real Samples Based on Monoclonal Antibody. <i>Analytical Letters</i> , 2011 , 44, 1591-1601	2.2	21
77	Composite Assembly of Silver Nanoparticles with Avidin and Biotinylated AChE on Gold for the Pesticidal Electrochemical Sensing. <i>Electroanalysis</i> , 2008 , 20, 402-409	3	21
76	Single-Atom Nanozymes Linked Immunosorbent Assay for Sensitive Detection of A 1-40: A Biomarker of Alzheimer's Disease. <i>Research</i> , 2020 , 2020, 4724505	7.8	21
75	Tri-functional Fe-Zr bi-metal-organic frameworks enable high-performance phosphate ion ratiometric fluorescent detection. <i>Nanoscale</i> , 2020 , 12, 19383-19389	7.7	21
74	Nanomaterial-enhanced 3D-printed sensor platform for simultaneous detection of atrazine and acetochlor. <i>Biosensors and Bioelectronics</i> , 2021 , 184, 113238	11.8	21
73	Recent progress on single-atom catalysts for CO ₂ electroreduction. <i>Materials Today</i> , 2021 , 48, 95-95	21.8	20
72	Visualization of endogenous hydrogen sulfide in living cells based on Au nanorods@silica enhanced fluorescence. <i>Analytica Chimica Acta</i> , 2019 , 1053, 81-88	6.6	20
71	Assembling Carbon Pores into Carbon Sheets: Rational Design of Three-Dimensional Carbon Networks for a Lithium-Sulfur Battery. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5911-5918	9.5	20
70	A new label-free strategy for a highly efficient chemiluminescence immunoassay. <i>Chemical Communications</i> , 2015 , 51, 14443-6	5.8	19
69	Paper-based ITP technology: An application to specific cancer-derived exosome detection and analysis. <i>Biosensors and Bioelectronics</i> , 2020 , 164, 112292	11.8	19
68	Highly Dispersed Platinum Atoms on the Surface of AuCu Metallic Aerogels for Enabling H ₂ O ₂ Production. <i>ACS Applied Energy Materials</i> , 2019 , 2, 7722-7727	6.1	19
67	Amperometric sarcosine biosensor with strong anti-interference capabilities based on mesoporous organic-inorganic hybrid materials. <i>Biosensors and Bioelectronics</i> , 2019 , 141, 111431	11.8	18
66	Emerging Applications of Additive Manufacturing in Biosensors and Bioanalytical Devices. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000171	6.8	18
65	Simultaneous immunoassay of phosphorylated proteins based on apoferritin templated metallic phosphates as voltammetrically distinguishable signal reporters. <i>Biosensors and Bioelectronics</i> , 2016 , 80, 201-207	11.8	18
64	Ultrasonic enhanced synthesis of multi-walled carbon nanotube supported PtCo bimetallic nanoparticles as catalysts for the oxygen reduction reaction. <i>RSC Advances</i> , 2015 , 5, 32685-32689	3.7	17
63	A Sense-and-treat ELISA using zeolitic imidazolate framework-8 as carriers for dual-modal detection of carcinoembryonic antigen. <i>Sensors and Actuators B: Chemical</i> , 2019 , 297, 126760	8.5	17
62	Protein-based nanomaterials and nanosystems for biomedical applications: A review. <i>Materials Today</i> , 2021 , 43, 166-184	21.8	17

61	CdTe@SiO signal reporters-based fluorescent immunosensor for quantitative detection of prostate specific antigen. <i>Analytica Chimica Acta</i> , 2019 , 1057, 44-50	6.6	16
60	Simultaneous detection of dual biomarkers from humans exposed to organophosphorus pesticides by combination of immunochromatographic test strip and ellman assay. <i>Biosensors and Bioelectronics</i> , 2018 , 104, 39-44	11.8	16
59	Synthetic Polymer Nanoparticles Functionalized with Different Ligands for Receptor-mediated Transcytosis across Blood-Brain Barrier. <i>ACS Applied Bio Materials</i> , 2018 , 1, 1687-1694	4.1	16
58	Electrically Switched Ion Exchange Based on Carbon-Polypyrrole Composite Smart Materials for the Removal of ReO from Aqueous Solutions. <i>Environmental Science & Technology</i> , 2019 , 53, 2612-2617	10.3	15
57	Mesoporous Pd@Pt nanoparticle-linked immunosorbent assay for detection of atrazine. <i>Analytica Chimica Acta</i> , 2020 , 1116, 36-44	6.6	15
56	Self-Driven Multicolor Electrochromic Energy Storage Windows Powered by a "Perpetual" Rechargeable Battery. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 48013-48020	9.5	15
55	Enzyme entrapped nanoporous scaffolds formed through flow-induced gelation in a microfluidic filter device for sensitive biosensing of organophosphorus compounds. <i>Lab on A Chip</i> , 2011 , 11, 381-4	7.2	15
54	Acetylcholinesterase biosensor based on gold nanoparticles and cysteamine self assembled monolayer for determination of monocrotophos. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 2368-73	1.3	15
53	Electrochemical detection of leukemia oncogenes using enzyme-loaded carbon nanotube labels. <i>Analyst, The</i> , 2014 , 139, 4223-30	5	14
52	Integrated immunochromatographic strip with glucometer readout for rapid quantification of phosphorylated proteins. <i>Analytica Chimica Acta</i> , 2017 , 964, 1-6	6.6	13
51	A novel fluorescent and electrochemical dual-responsive immunosensor for sensitive and reliable detection of biomarkers based on cation-exchange reaction. <i>Analytica Chimica Acta</i> , 2020 , 1096, 61-68	6.6	13
50	Electrochemically Controlled Ion-exchange Property of Carbon Nanotubes/Polypyrrole Nanocomposite in Various Electrolyte Solutions. <i>Electroanalysis</i> , 2017 , 29, 929-936	3	12
49	Detection of organophosphate pesticide using polyaniline and carbon nanotubes composite based on acetylcholinesterase inhibition. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 5662-6	1.3	12
48	Quantification of kinetic rate constants for transcytosis of polymeric nanoparticle through blood-brain barrier. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018 , 1862, 2779-2787	4	12
47	A Rapid Method for Antigen-Specific Hybridoma Clone Isolation. <i>Analytical Chemistry</i> , 2018 , 90, 2224-2229	9.8	11
46	A magnetic electrochemical immunosensor for the detection of phosphorylated p53 based on enzyme functionalized carbon nanospheres with signal amplification. <i>RSC Advances</i> , 2014 , 4, 54066-54071	7.7	11
45	Oleanane-type triterpene saponins and cassaine-type diterpenoids from <i>Erythrophleum fordii</i> . <i>Planta Medica</i> , 2011 , 77, 1631-8	3.1	11
44	Mesoporous PtPd nanoparticles for ligand-mediated and imaging-guided chemo-photothermal therapy of breast cancer. <i>Nano Research</i> , 2020 , 13, 1739-1748	10	10

43	Direct Cytosolic MicroRNA Detection Using Single-Layer Perfluorinated Tungsten Diselenide Nanoplatfrom. <i>Analytical Chemistry</i> , 2018 , 90, 10369-10376	7.8	10
42	An ultra low-cost smartphone device for in-situ monitoring of acute organophosphorus poisoning for agricultural workers. <i>Sensors and Actuators B: Chemical</i> , 2018 , 275, 300-305	8.5	10
41	Bioactive constituents from toxic seed plants in China. <i>RSC Advances</i> , 2013 , 3, 10078	3.7	10
40	Enhancing Chemical Interaction of Polysulfide and Carbon through Synergetic Nitrogen and Phosphorus Doping. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 806-813	8.3	10
39	Sensitive immunoassays of nitrated fibrinogen in human biofluids. <i>Talanta</i> , 2010 , 81, 1662-9	6.2	9
38	Single-Atom Iron Boosts Electrochemiluminescence. <i>Angewandte Chemie</i> , 2020 , 132, 3562-3566	3.6	9
37	Iron-Imprinted Single-Atomic Site Catalyst-Based Nanoprobe for Detection of Hydrogen Peroxide in Living Cells. <i>Nano-Micro Letters</i> , 2021 , 13, 146	19.5	9
36	Tuning polyelectrolyte-graphene interaction for enhanced electrochemical nonenzymatic hydrogen peroxide sensing. <i>Analytica Chimica Acta</i> , 2019 , 1049, 98-104	6.6	9
35	Eyeball-Like Yolk-Shell Bimetallic Nanoparticles for Synergistic Photodynamic-Photothermal Therapy.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 5922-5929	4.1	8
34	PtCu bimetallic alloy nanotubes with porous surface for oxygen reduction reaction. <i>RSC Advances</i> , 2016 , 6, 69233-69238	3.7	8
33	LC Determination of Phthalate Esters in Water Samples Using Continuous-Flow Microextraction. <i>Chromatographia</i> , 2008 , 68, 393-397	2.1	8
32	Self-Assembling Allochroic Nanocatalyst for Improving Nanozyme-Based Immunochromatographic Assays. <i>ACS Sensors</i> , 2021 , 6, 220-228	9.2	8
31	Glucose Biosensor Based on Mesoporous Pt Nanotubes. <i>Journal of the Electrochemical Society</i> , 2017 , 164, B230-B233	3.9	7
30	Recognition and Detection of METOL at an L-Cysteine Modified Gold Electrode. <i>Analytical Letters</i> , 2004 , 37, 361-375	2.2	7
29	Fine-Tuning Pyridinic Nitrogen in Nitrogen-Doped Porous Carbon Nanostructures for Boosted Peroxidase-Like Activity and Sensitive Biosensing. <i>Research</i> , 2020 , 2020, 8202584	7.8	7
28	Mesoporous Carbon Nanospheres with ZnO Nanolids for Multimodal Therapy of Lung Cancer.. <i>ACS Applied Bio Materials</i> , 2018 , 1, 1165-1173	4.1	7
27	Comparison of Blood-Brain Barrier Models for Biological Analysis: One Cell Type vs Three Cell Types. <i>ACS Applied Bio Materials</i> , 2019 , 2, 1050-1055	4.1	6
26	Embedding platinum-based nanoparticles within ordered mesoporous carbon using supercritical carbon dioxide technique as a highly efficient oxygen reduction electrocatalyst. <i>Journal of Alloys and Compounds</i> , 2018 , 741, 580-589	5.7	6

25	A sensitive magnetic nanoparticle-based immunoassay of phosphorylated acetylcholinesterase using protein cage templated lead phosphate for signal amplification with graphite furnace atomic absorption spectrometry detection. <i>Analyst, The</i> , 2016 , 141, 2278-83	5	6
24	Design, fabrication and test of a pneumatically controlled, renewable, microfluidic bead trapping device for sequential injection analysis applications. <i>Analyst, The</i> , 2016 , 141, 206-15	5	6
23	Highly Bright and Photostable Two-Dimensional Nanomaterials Assembled from Sequence-Defined Peptoids 2021 , 3, 420-427		6
22	A MnOx enhanced atomically dispersed iron/nitrogen/carbon catalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> ,	13	5
21	Carbon nanodot-hybridized silica nanospheres assisted immunoassay for sensitive detection of Escherichia coli. <i>Sensors and Actuators B: Chemical</i> , 2021 , 349, 130730	8.5	5
20	THE ELECTROCATALYTIC REDUCTION OF HYDROGEN PEROXIDE BASED ON COULOMBICALLY LINKED FERROCENE AT L-CYSTEINE SELF-ASSEMBLED MONOLAYERS. <i>Analytical Letters</i> , 2002 , 35, 1823-1834	2.2	4
19	Electrochemical Properties of L-cysteine Self-assembled Monolayers Modified. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2001 , 17, 1102-1106	3.8	4
18	Smartphone-Based Dual-Channel Immunochromatographic Test Strip with Polymer Quantum Dot Labels for Simultaneous Detection of Cypermethrin and 3-Phenoxybenzoic Acid. <i>Analytical Chemistry</i> , 2021 , 93, 13658-13666	7.8	4
17	Physiologically Based Pharmacokinetic Modeling of Salivary Concentrations for Noninvasive Biomonitoring of 2,4-Dichlorophenoxyacetic Acid (2,4-D). <i>Toxicological Sciences</i> , 2019 , 172, 330-343	4.4	3
16	Screening of antidote sensitivity using an acetylcholinesterase biosensor based on a graphene/Au nanocomposite. <i>RSC Advances</i> , 2015 , 5, 4894-4897	3.7	3
15	One-step electrochemically deposited gold nanoparticles interface grafted with avidin for acetylcholinesterase biosensor design. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 5685-91	1.3	3
14	Study of Inhibition, Reactivation and Aging Processes of Pesticides Using Graphene Nanosheets/Gold Nanoparticles-Based Acetylcholinesterase Biosensor. <i>Electroanalysis</i> , 2012 , 24, n/a-n/a ³		2
13	Selective Removal of Perfluorobutyric Acid Using an Electroactive Ion Exchanger Based on Polypyrrole@Iron Oxide on Carbon Cloth. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 48500-48507	9.5	2
12	Metal-Organic Frameworks Based Porous Carbons for Oxygen Reduction Reaction Electrocatalysts for Fuel Cell Applications 2020 , 251-284		2
11	Recent advances in biomedical applications of 2D nanomaterials with peroxidase-like properties.. <i>Advanced Drug Delivery Reviews</i> , 2022 , 114269	18.5	2
10	Sensors Based on Carbon Nanotube Arrays and Graphene for Water Monitoring 2014 , 3-19		1
9	Carbon Nanotube- and Graphene-based Sensors for Environmental Applications 2012 , 621-645		1
8	Self-Assembly of Metalloporphyrin-L-Cysteine Modified Gold Electrode. <i>Journal of Applied Electrochemistry</i> , 2004 , 34, 495-500	2.6	1

7	Au@PtPd enhanced immunoassay with 3D printed smartphone device for quantification of diaminochlorotriazine (DACT), the major atrazine biomarker.. <i>Biosensors and Bioelectronics</i> , 2022 , 208, 114190	11.8	1
6	Zeptomole Imaging of Cytosolic MicroRNA Cancer Biomarkers with A Light-Controlled Nanoantenna. <i>Nano-Micro Letters</i> , 2021 , 13, 213	19.5	0
5	Functionalized Two-Dimensional Nanomaterials for Biosensing and Bioimaging. <i>ACS Symposium Series</i> , 2020 , 143-165	0.4	0
4	Sequence-Defined Nanotubes Assembled from IR780-Conjugated Peptoids for Chemophototherapy of Malignant Glioma. <i>Research</i> , 2021 , 2021, 9861384	7.8	0
3	Peptoid Nanotubes: Bioinspired Peptoid Nanotubes for Targeted Tumor Cell Imaging and Chemo-Photodynamic Therapy (Small 43/2019). <i>Small</i> , 2019 , 15, 1970231	11	
2	Electrochemical Biosensors Based on Nanomaterials for Detection of Pesticides and Explosives 2014 , 47-62		
1	Graphene-Based Optical Biosensors and Imaging 2017 , 93-110		