

Xue-Ji Zhang

List of Publications by Citations

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

581
papers

19,672
citations

69
h-index

109
g-index

610
ext. papers

24,001
ext. citations

7.8
avg, IF

7.39
L-index

#	Paper	IF	Citations
581	MicroRNA: function, detection, and bioanalysis. <i>Chemical Reviews</i> , 2013 , 113, 6207-33	68.1	780
580	Measurement of Nitric Oxide Production in Biological Systems by Using Griess Reaction Assay. <i>Sensors</i> , 2003 , 3, 276-284	3.8	353
579	Biodegradable Biomimic Copper/Manganese Silicate Nanospheres for Chemodynamic/Photodynamic Synergistic Therapy with Simultaneous Glutathione Depletion and Hypoxia Relief. <i>ACS Nano</i> , 2019 , 13, 4267-4277	16.7	315
578	Dual-scaled porous nitrocellulose membranes with underwater superoleophobicity for highly efficient oil/water separation. <i>Advanced Materials</i> , 2014 , 26, 1771-5	24	277
577	Fuel-Free Synthetic Micro-/Nanomachines. <i>Advanced Materials</i> , 2017 , 29, 1603250	24	235
576	Erythrocyte-Cancer Hybrid Membrane Camouflaged Hollow Copper Sulfide Nanoparticles for Prolonged Circulation Life and Homotypic-Targeting Photothermal/Chemotherapy of Melanoma. <i>ACS Nano</i> , 2018 , 12, 5241-5252	16.7	232
575	Highly sensitive multiple microRNA detection based on fluorescence quenching of graphene oxide and isothermal strand-displacement polymerase reaction. <i>Analytical Chemistry</i> , 2012 , 84, 4587-93	7.8	228
574	Fluorescent MoS ₂ Quantum Dots: Ultrasonic Preparation, Up-Conversion and Down-Conversion Bioimaging, and Photodynamic Therapy. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 3107-14	9.5	210
573	Mesoporous silica nanoparticles with organo-bridged silsesquioxane framework as innovative platforms for bioimaging and therapeutic agent delivery. <i>Biomaterials</i> , 2016 , 91, 90-127	15.6	199
572	Reversible swarming and separation of self-propelled chemically powered nanomotors under acoustic fields. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2163-6	16.4	191
571	Detection of NADH and ethanol based on catalytic activity of soluble carbon nanofiber with low overpotential. <i>Analytical Chemistry</i> , 2007 , 79, 453-8	7.8	181
570	Potential oxidative stress of gold nanoparticles by induced-NO releasing in serum. <i>Journal of the American Chemical Society</i> , 2009 , 131, 40-1	16.4	177
569	Metal-Organic Framework Nanoshuttle for Synergistic Photodynamic and Low-Temperature Photothermal Therapy. <i>Advanced Functional Materials</i> , 2018 , 28, 1804634	15.6	177
568	Biocompatible conductive architecture of carbon nanofiber-doped chitosan prepared with controllable electrodeposition for cytosensing. <i>Analytical Chemistry</i> , 2007 , 79, 4442-7	7.8	174
567	Ultrasensitive nucleic acid biosensor based on enzyme-gold nanoparticle dual label and lateral flow strip biosensor. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 2018-24	11.8	164
566	Trace and label-free microRNA detection using oligonucleotide encapsulated silver nanoclusters as probes. <i>Analytical Chemistry</i> , 2012 , 84, 8670-4	7.8	160
565	Cobalt and Copper Hexacyanoferrate Modified Carbon Fiber Microelectrode as an All-Solid Potentiometric Microsensor for Hydrazine. <i>Electroanalysis</i> , 2000 , 12, 48-54	3	156

564	An open source and reduce expenditure ROS generation strategy for chemodynamic/photodynamic synergistic therapy. <i>Nature Communications</i> , 2020 , 11, 1735	17.4	153
563	Nacre-inspired design of mechanical stable coating with underwater superoleophobicity. <i>ACS Nano</i> , 2013 , 7, 5077-83	16.7	153
562	Ethylenediamine-assisted hydrothermal synthesis of nitrogen-doped carbon quantum dots as fluorescent probes for sensitive biosensing and bioimaging. <i>Sensors and Actuators B: Chemical</i> , 2015 , 218, 229-236	8.5	152
561	Tunable Fabrication of Molybdenum Disulfide Quantum Dots for Intracellular MicroRNA Detection and Multiphoton Bioimaging. <i>Small</i> , 2015 , 11, 4158-64	11	148
560	Engineered Exosome-Mediated Near-Infrared-II Region VC Quantum Dot Delivery for Nucleus-Target Low-Temperature Photothermal Therapy. <i>ACS Nano</i> , 2019 , 13, 1499-1510	16.7	147
559	Self-Powered Triboelectric Nanosensor with Poly(tetrafluoroethylene) Nanoparticle Arrays for Dopamine Detection. <i>ACS Nano</i> , 2015 , 9, 8376-83	16.7	147
558	Dumbbell-shaped carbon quantum dots/AuNCs nanohybrid as an efficient ratiometric fluorescent probe for sensing cadmium (II) ions and l-ascorbic acid. <i>Carbon</i> , 2016 , 96, 1034-1042	10.4	145
557	Ultrasound-modulated bubble propulsion of chemically powered microengines. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8552-5	16.4	142
556	Graphene quantum dots induce apoptosis, autophagy, and inflammatory response via p38 mitogen-activated protein kinase and nuclear factor- κ B mediated signaling pathways in activated THP-1 macrophages. <i>Toxicology</i> , 2015 , 327, 62-76	4.4	136
555	Aptamer-Conjugated Graphene Quantum Dots/Porphyrin Derivative Theranostic Agent for Intracellular Cancer-Related MicroRNA Detection and Fluorescence-Guided Photothermal/Photodynamic Synergetic Therapy. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 159-166	9.5	135
554	Ultrasound propulsion of micro-/nanomotors. <i>Applied Materials Today</i> , 2017 , 9, 493-503	6.6	131
553	Electronic structure engineering of Cu ₂ O film/ZnO nanorods array all-oxide p-n heterostructure for enhanced photoelectrochemical property and self-powered biosensing application. <i>Scientific Reports</i> , 2015 , 5, 7882	4.9	131
552	Nanomedicine: magnetic nanoparticles and their biomedical applications. <i>Current Medicinal Chemistry</i> , 2010 , 17, 3120-41	4.3	130
551	Unlocking the Electrocatalytic Activity of Antimony for CO Reduction by Two-Dimensional Engineering of the Bulk Material. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14718-14722	16.4	126
550	Three-dimensional Nitrogen-Doped Graphene Supported Molybdenum Disulfide Nanoparticles as an Advanced Catalyst for Hydrogen Evolution Reaction. <i>Scientific Reports</i> , 2015 , 5, 17542	4.9	124
549	Enzyme-powered Janus platelet cell robots for active and targeted drug delivery. <i>Science Robotics</i> , 2020 , 5,	18.6	119
548	Functionalized graphene oxide mediated adriamycin delivery and miR-21 gene silencing to overcome tumor multidrug resistance in vitro. <i>PLoS ONE</i> , 2013 , 8, e60034	3.7	116
547	A cloud-based car parking middleware for IoT-based smart cities: design and implementation. <i>Sensors</i> , 2014 , 14, 22372-93	3.8	115

546	Plumbagin induces apoptotic and autophagic cell death through inhibition of the PI3K/Akt/mTOR pathway in human non-small cell lung cancer cells. <i>Cancer Letters</i> , 2014 , 344, 239-59	9.9	113
545	Solid-state pH nanoelectrode based on polyaniline thin film electrodeposited onto ion-beam etched carbon fiber. <i>Analytica Chimica Acta</i> , 2002 , 452, 1-10	6.6	113
544	Layered nanofiber sponge with an improved capacity for promoting blood coagulation and wound healing. <i>Biomaterials</i> , 2019 , 204, 70-79	15.6	111
543	Enhanced photoelectrochemical property of ZnO nanorods array synthesized on reduced graphene oxide for self-powered biosensing application. <i>Biosensors and Bioelectronics</i> , 2015 , 64, 499-504	11.8	111
542	An ion-induced low-oil-adhesion organic/inorganic hybrid film for stable superoleophobicity in seawater. <i>Advanced Materials</i> , 2013 , 25, 606-11	24	107
541	Zirconium-Based Porphyrinic Metal-Organic Framework (PCN-222): Enhanced Photoelectrochemical Response and Its Application for Label-Free Phosphoprotein Detection. <i>Analytical Chemistry</i> , 2016 , 88, 11207-11212	7.8	106
540	Disulfide-Bridged Organosilica Frameworks: Designed, Synthesis, Redox-Triggered Biodegradation, and Nanobiomedical Applications. <i>Advanced Functional Materials</i> , 2018 , 28, 1707325	15.6	106
539	Ultratrace DNA Detection Based on the Condensing-Enrichment Effect of Superwetable Microchips. <i>Advanced Materials</i> , 2015 , 27, 6878-84	24	104
538	Electrochemical hydrogen sulfide biosensors. <i>Analyst, The</i> , 2016 , 141, 1185-95	5	102
537	Strong Antibacterial Polydopamine Coatings Prepared by a Shaking-assisted Method. <i>Scientific Reports</i> , 2016 , 6, 24420	4.9	99
536	Multiscale Disordered Porous Fibers for Self-Sensing and Self-Cooling Integrated Smart Sportswear. <i>ACS Nano</i> , 2020 , 14, 559-567	16.7	99
535	Visual detection of microRNA with lateral flow nucleic acid biosensor. <i>Biosensors and Bioelectronics</i> , 2014 , 54, 578-84	11.8	97
534	Amperometric glucose sensor based on catalytic reduction of dissolved oxygen at soluble carbon nanofiber. <i>Biosensors and Bioelectronics</i> , 2007 , 23, 479-84	11.8	96
533	Multifunctional Poly(L-lactide)-Polyethylene Glycol-Grafted Graphene Quantum Dots for Intracellular MicroRNA Imaging and Combined Specific-Gene-Targeting Agents Delivery for Improved Therapeutics. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 11015-23	9.5	92
532	Hollow Carbon Nanospheres with Tunable Hierarchical Pores for Drug, Gene, and Photothermal Synergistic Treatment. <i>Small</i> , 2017 , 13, 1602592	11	92
531	Graphene quantum dots for the inhibition of β -amyloid aggregation. <i>Nanoscale</i> , 2015 , 7, 19060-5	7.7	90
530	Microfluidic Chip-Based Wearable Colorimetric Sensor for Simple and Facile Detection of Sweat Glucose. <i>Analytical Chemistry</i> , 2019 , 91, 14803-14807	7.8	89
529	Light-triggered theranostic liposomes for tumor diagnosis and combined photodynamic and hypoxia-activated prodrug therapy. <i>Biomaterials</i> , 2018 , 185, 301-309	15.6	87

528	An evidence-based update on the pharmacological activities and possible molecular targets of Lycium barbarum polysaccharides. <i>Drug Design, Development and Therapy</i> , 2015 , 9, 33-78	4.4	83
527	Glucose Nanosensor Based on Prussian-Blue Modified Carbon-Fiber Cone Nanoelectrode and an Integrated Reference Electrode. <i>Electroanalysis</i> , 1999 , 11, 945-949	3	82
526	Fabricating Aptamer-Conjugated PEGylated-MoS ₂ /Cu _{1.8} S Theranostic Nanoplatform for Multiplexed Imaging Diagnosis and Chemo-Photothermal Therapy of Cancer. <i>Advanced Functional Materials</i> , 2017 , 27, 1605592	15.6	80
525	One-pot synthesis of nitrogen-rich carbon dots decorated graphene oxide as metal-free electrocatalyst for oxygen reduction reaction. <i>Carbon</i> , 2016 , 109, 402-410	10.4	79
524	Flexible and Superwetable Bands as a Platform toward Sweat Sampling and Sensing. <i>Analytical Chemistry</i> , 2019 , 91, 4296-4300	7.8	76
523	Stretchable Conductive Fibers of Ultrahigh Tensile Strain and Stable Conductance Enabled by a Worm-Shaped Graphene Microlayer. <i>Nano Letters</i> , 2019 , 19, 6592-6599	11.5	76
522	Real time and in vivo monitoring of nitric oxide by electrochemical sensors--from dream to reality. <i>Frontiers in Bioscience - Landmark</i> , 2004 , 9, 3434-46	2.8	76
521	A Bacteriochlorin-Based Metal-Organic Framework Nanosheet Superoxide Radical Generator for Photoacoustic Imaging-Guided Highly Efficient Photodynamic Therapy. <i>Advanced Science</i> , 2019 , 6, 1900530	13.6	75
520	Electrochemically Induced Release of DNA from Gold Ultramicroelectrodes. <i>Langmuir</i> , 1999 , 15, 6541-6545	4.5	75
519	Induction of apoptosis and autophagy via sirtuin1- and PI3K/Akt/mTOR-mediated pathways by plumbagin in human prostate cancer cells. <i>Drug Design, Development and Therapy</i> , 2015 , 9, 1511-54	4.4	74
518	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
517	One-Step Hydrothermal Fabrication of Three-dimensional MoS Nanoflower using Polypyrrole as Template for Efficient Hydrogen Evolution Reaction. <i>Scientific Reports</i> , 2017 , 7, 42309	4.9	73
516	Needle-type dual microsensor for the simultaneous monitoring of glucose and insulin. <i>Analytical Chemistry</i> , 2001 , 73, 844-7	7.8	73
515	Trends in cell-based electrochemical biosensors. <i>Current Medicinal Chemistry</i> , 2008 , 15, 3160-70	4.3	72
514	Highly sensitive and selective microRNA detection based on DNA-bio-bar-code and enzyme-assisted strand cycle exponential signal amplification. <i>Analytical Chemistry</i> , 2015 , 87, 4334-40	7.8	71
513	TiO ₂ Nanosheets with the Au Nanocrystal-Decorated Edge for Mitochondria-Targeting Enhanced Sonodynamic Therapy. <i>Chemistry of Materials</i> , 2019 , 31, 9105-9114	9.6	70
512	Gold nanoparticle/ZnO nanorod hybrids for enhanced reactive oxygen species generation and photodynamic therapy. <i>Nano Research</i> , 2015 , 8, 2004-2014	10	68
511	Intelligent MnO/CuS for Multimode Imaging Diagnostic and Advanced Single-Laser Irradiated Photothermal/Photodynamic Therapy. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 17732-17741	9.5	66

510	Glucose microsensors based on carbon paste enzyme electrodes modified with cupric hexacyanoferrate. <i>Analytica Chimica Acta</i> , 1999 , 395, 11-16	6.6	66
509	Ferrocyanide-Ferricyanide Redox Couple Induced Electrochemiluminescence Amplification of Carbon Dots for Ultrasensitive Sensing of Glutathione. <i>Analytical Chemistry</i> , 2015 , 87, 11150-6	7.8	65
508	Size-dependent electrochemiluminescence behavior of water-soluble CdTe quantum dots and selective sensing of l-cysteine. <i>Talanta</i> , 2009 , 77, 1654-9	6.2	65
507	Near-infrared triggered strand displacement amplification for MicroRNA quantitative detection in single living cells. <i>Chemical Science</i> , 2018 , 9, 1753-1759	9.4	64
506	Stable silver nanoclusters electrochemically deposited on nitrogen-doped graphene as efficient electrocatalyst for oxygen reduction reaction. <i>Journal of Power Sources</i> , 2015 , 274, 1173-1179	8.9	62
505	Artificial intelligence biosensors: Challenges and prospects. <i>Biosensors and Bioelectronics</i> , 2020 , 165, 112412	11.8	62
504	Impedance labelless detection-based polypyrrole DNA biosensor. <i>Frontiers in Bioscience - Landmark</i> , 2005 , 10, 180-6	2.8	62
503	Ultrathin Tellurium Oxide/Ammonium Tungsten Bronze Nanoribbon for Multimodality Imaging and Second Near-Infrared Region Photothermal Therapy. <i>Nano Letters</i> , 2019 , 19, 1179-1189	11.5	62
502	An enzyme-amplified lateral flow strip biosensor for visual detection of microRNA-224. <i>Talanta</i> , 2016 , 146, 648-54	6.2	61
501	Bioinspired superwetable micropatterns for biosensing. <i>Chemical Society Reviews</i> , 2019 , 48, 3153-3165	58.5	61
500	Cancer Cell Membrane Camouflaged Nanoprobe for Catalytic Ratiometric Photoacoustic Imaging of MicroRNA in Living Mice. <i>Advanced Materials</i> , 2019 , 31, e1807888	24	61
499	Papilla-like magnetic particles with hierarchical structure for oil removal from water. <i>Chemical Communications</i> , 2013 , 49, 8752-4	5.8	61
498	Selenium delays tomato fruit ripening by inhibiting ethylene biosynthesis and enhancing the antioxidant defense system. <i>Food Chemistry</i> , 2017 , 219, 179-184	8.5	60
497	Plumbagin induces G2/M arrest, apoptosis, and autophagy via p38 MAPK- and PI3K/Akt/mTOR-mediated pathways in human tongue squamous cell carcinoma cells. <i>Drug Design, Development and Therapy</i> , 2015 , 9, 1601-26	4.4	60
496	Implantable Electrochemical Sensors for Biomedical and Clinical Applications: Progress, Problems, and Future Possibilities.. <i>Current Medicinal Chemistry</i> , 2007 , 14, 937-951	4.3	59
495	DNA-Mediated Nanoscale Metal-Organic Frameworks for Ultrasensitive Photoelectrochemical Enzyme-Free Immunoassay. <i>Analytical Chemistry</i> , 2018 , 90, 12284-12291	7.8	59
494	Sensitive fiber microelectrode made of nickel hydroxide nanosheets embedded in highly-aligned carbon nanotube scaffold for nonenzymatic glucose determination. <i>Sensors and Actuators B: Chemical</i> , 2018 , 257, 23-28	8.5	58
493	Integrated Smart Janus Textile Bands for Self-Pumping Sweat Sampling and Analysis. <i>ACS Sensors</i> , 2020 , 5, 1548-1554	9.2	57

492	Graphene-Based Biosensors for Detection of Biomarkers. <i>Micromachines</i> , 2020 , 11,	3.3	57
491	Target-Triggered Catalytic Hairpin Assembly-Induced Core-Satellite Nanostructures for High-Sensitive "Off-to-On" SERS Detection of Intracellular MicroRNA. <i>Analytical Chemistry</i> , 2018 , 90, 10591-10599	7.8	57
490	Superwetable Electrochemical Biosensor toward Detection of Cancer Biomarkers. <i>ACS Sensors</i> , 2018 , 3, 72-78	9.2	56
489	The investigational Aurora kinase A inhibitor alisertib (MLN8237) induces cell cycle G2/M arrest, apoptosis, and autophagy via p38 MAPK and Akt/mTOR signaling pathways in human breast cancer cells. <i>Drug Design, Development and Therapy</i> , 2015 , 9, 1627-52	4.4	56
488	Self-powered electrochemical water treatment system for sterilization and algae removal using water wave energy. <i>Nano Energy</i> , 2015 , 18, 81-88	17.1	55
487	Multiplex microRNA imaging in living cells using DNA-capped-Au assembled hydrogels. <i>Chemical Science</i> , 2018 , 9, 7419-7425	9.4	54
486	Fabrication, characterization, and potential application of carbon fiber cone nanometer-size electrodes. <i>Analytical Chemistry</i> , 1996 , 68, 3338-43	7.8	54
485	Superwetable Microchips as a Platform toward Microgravity Biosensing. <i>ACS Nano</i> , 2017 , 11, 621-626	16.7	53
484	Dendrimer-like hybrid particles with tunable hierarchical pores. <i>Nanoscale</i> , 2015 , 7, 6173-84	7.7	53
483	Label-free and ultrasensitive microRNA detection based on novel molecular beacon binding readout and target recycling amplification. <i>Biosensors and Bioelectronics</i> , 2014 , 53, 377-83	11.8	53
482	Chemical etching of bovine serum albumin-protected Au ₂₅ nanoclusters for label-free and separation-free detection of cysteamine. <i>Biosensors and Bioelectronics</i> , 2015 , 66, 155-61	11.8	52
481	Electrochemically Mediated Surface-Initiated de Novo Growth of Polymers for Amplified Electrochemical Detection of DNA. <i>Analytical Chemistry</i> , 2017 , 89, 9253-9259	7.8	52
480	The role of sampling in wearable sweat sensors. <i>Talanta</i> , 2020 , 212, 120801	6.2	52
479	Multifunctional conductive hydrogel-based flexible wearable sensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2021 , 134, 116130	14.6	52
478	Imaging multiple microRNAs in living cells using ATP self-powered strand-displacement cascade amplification. <i>Chemical Science</i> , 2018 , 9, 1184-1190	9.4	52
477	Recent Advance on Mesoporous Silica Nanoparticles-Based Controlled Release System: Intelligent Switches Open up New Horizon. <i>Nanomaterials</i> , 2015 , 5, 2019-2053	5.4	51
476	Lateral flow biosensors based on the use of micro- and nanomaterials: a review on recent developments. <i>Mikrochimica Acta</i> , 2019 , 187, 70	5.8	51
475	Carbon nitride nanosheet-supported porphyrin: a new biomimetic catalyst for highly efficient bioanalysis. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 543-52	9.5	50

474	Highly sensitive and selective chemiluminescent imaging for DNA detection by ligation-mediated rolling circle amplified synthesis of DNAzyme. <i>Biosensors and Bioelectronics</i> , 2013 , 41, 348-53	11.8	50
473	Gold nanoparticle enrichment method for identifying S-nitrosylation and S-glutathionylation sites in proteins. <i>Journal of the American Chemical Society</i> , 2010 , 132, 11392-4	16.4	50
472	An Integrated Nitric Oxide Sensor Based on Carbon Fiber Coated with Selective Membranes. <i>Electroanalysis</i> , 2000 , 12, 1113-1117	3	50
471	Enhanced cancer therapy by hypoxia-responsive copper metal-organic frameworks nanosystem. <i>Biomaterials</i> , 2020 , 258, 120278	15.6	50
470	AIE-based superwetttable microchips for evaporation and aggregation induced fluorescence enhancement biosensing. <i>Biosensors and Bioelectronics</i> , 2018 , 111, 124-130	11.8	49
469	Space-confined fabrication of silver nanodendrites and their enhanced SERS activity. <i>Nanoscale</i> , 2013 , 5, 4284-90	7.7	49
468	Electrochemical sensing platform based on molecularly imprinted polymer decorated N,S co-doped activated graphene for ultrasensitive and selective determination of cyclophosphamide. <i>Talanta</i> , 2017 , 164, 601-607	6.2	49
467	Clinical pharmacology of dipeptidyl peptidase 4 inhibitors indicated for the treatment of type 2 diabetes mellitus. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2015 , 42, 999-1024	3	48
466	Oxidase-mimicking activity of the nitrogen-doped FeC@C composites. <i>Chemical Communications</i> , 2017 , 53, 3882-3885	5.8	47
465	Plasmonic Resonance Energy Transfer Enhanced Photodynamic Therapy with Au@SiO ₂ @CuO/Perfluorohexane Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 6991-7002	9.5	47
464	Recent advances in the chemical imaging of human fingerprints (a review). <i>Analyst, The</i> , 2016 , 141, 6172-6189	5.189	47
463	Superwetttable nanodendritic gold substrates for direct miRNA SERS detection. <i>Nanoscale</i> , 2018 , 10, 20990-20994	7.7	47
462	Exploring the effects of selenium treatment on the nutritional quality of tomato fruit. <i>Food Chemistry</i> , 2018 , 252, 9-15	8.5	46
461	Facile colorimetric assay of alkaline phosphatase activity using Fe(II)-phenanthroline reporter. <i>Analytica Chimica Acta</i> , 2017 , 950, 170-177	6.6	46
460	DNA-based intelligent logic controlled release systems. <i>Chemical Communications</i> , 2012 , 48, 8410-2	5.8	46
459	Amperometric sensor for ethanol based on one-step electropolymerization of thionine-carbon nanofiber nanocomposite containing alcohol oxidase. <i>Talanta</i> , 2007 , 74, 387-92	6.2	46
458	Novel Calibration Method for Nitric Oxide Microsensors by Stoichiometrical Generation of Nitric Oxide from SNAP. <i>Electroanalysis</i> , 2000 , 12, 425-428	3	46
457	Unlocking the Electrocatalytic Activity of Antimony for CO ₂ Reduction by Two-Dimensional Engineering of the Bulk Material. <i>Angewandte Chemie</i> , 2017 , 129, 14910-14914	3.6	45

456	Structure-Dependent Optical Modulation of Propulsion and Collective Behavior of Acoustic/Light-Driven Hybrid Microbowls. <i>Advanced Functional Materials</i> , 2019 , 29, 1809003	15.6	45
455	An electrochemical non-enzymatic immunosensor for ultrasensitive detection of microcystin-LR using carbon nanofibers as the matrix. <i>Sensors and Actuators B: Chemical</i> , 2016 , 233, 624-632	8.5	45
454	Zirconium-metalloporphyrin frameworks as a three-in-one platform possessing oxygen nanocage, electron media, and bonding site for electrochemiluminescence protein kinase activity assay. <i>Nanoscale</i> , 2016 , 8, 11649-57	7.7	45
453	Rattle-type Au@CuS hollow mesoporous nanocrystals with enhanced photothermal efficiency for intracellular oncogenic microRNA detection and chemo-photothermal therapy. <i>Biomaterials</i> , 2018 , 158, 23-33	15.6	45
452	Fabricating Pt/Sn-InO Nanoflower with Advanced Oxygen Reduction Reaction Performance for High-Sensitivity MicroRNA Electrochemical Detection. <i>Analytical Chemistry</i> , 2017 , 89, 648-655	7.8	44
451	Ultrasensitive and Multiple Disease-Related MicroRNA Detection Based on Tetrahedral DNA Nanostructures and Duplex-Specific Nuclease-Assisted Signal Amplification. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 33499-33505	9.5	44
450	Coaxial electrospinning of polycaprolactone@chitosan: Characterization and silver nanoparticles incorporation for antibacterial activity. <i>Reactive and Functional Polymers</i> , 2016 , 107, 87-92	4.6	44
449	Lectin approaches for glycoproteomics in FDA-approved cancer biomarkers. <i>Expert Review of Proteomics</i> , 2014 , 11, 227-36	4.2	44
448	Electrochemical Sensors for Nitric Oxide Detection in Biological Applications. <i>Electroanalysis</i> , 2014 , 26, 449-468	3	44
447	Pd@Au Bimetallic Nanoplates Decorated Mesoporous MnO for Synergistic Nucleus-Targeted NIR-II Photothermal and Hypoxia-Relieved Photodynamic Therapy. <i>Advanced Healthcare Materials</i> , 2020 , 9, e1901528	10.1	44
446	Nitric oxide selective electrodes. <i>Methods in Enzymology</i> , 2008 , 436, 63-95	1.7	43
445	Control of capillary behavior through target-responsive hydrogel permeability alteration for sensitive visual quantitative detection. <i>Nature Communications</i> , 2019 , 10, 1036	17.4	42
444	Wettability behavior of special microscale ZnO nail-coated mesh films for oil-water separation. <i>Journal of Colloid and Interface Science</i> , 2015 , 458, 79-86	9.3	42
443	Algae Extraction Controllable Delamination of Vanadium Carbide Nanosheets with Enhanced Near-Infrared Photothermal Performance. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 6601-6606	16.4	42
442	Bioinspired polydopamine as the scaffold for the active AuNPs anchoring and the chemical simultaneously reduced graphene oxide: characterization and the enhanced biosensing application. <i>Biosensors and Bioelectronics</i> , 2013 , 49, 466-71	11.8	42
441	A Corrole-Based Covalent Organic Framework Featuring Desymmetrized Topology. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4354-4359	16.4	42
440	Value of the Debris of Reduction Sculpture: Thiol Etching of Au Nanoclusters for Preparing Water-Soluble and Aggregation-Induced Emission-Active Au(I) Complexes as Phosphorescent Copper Ion Sensor. <i>Analytical Chemistry</i> , 2016 , 88, 6071-7	7.8	42
439	One-pot synthesis of redox-triggered biodegradable hybrid nanocapsules with a disulfide-bridged silsesquioxane framework for promising drug delivery. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 4455-4469	7.3	41

438	Highly efficient remote controlled release system based on light-driven DNA nanomachine functionalized mesoporous silica. <i>Nanoscale</i> , 2012 , 4, 4473-6	7.7	41
437	Synthesis and biological evaluation of novel folic acid receptor-targeted, β -cyclodextrin-based drug complexes for cancer treatment. <i>PLoS ONE</i> , 2013 , 8, e62289	3.7	41
436	Br-PADAP embedded in cellulose acetate electrospun nanofibers: Colorimetric sensor strips for visual uranyl recognition. <i>Journal of Hazardous Materials</i> , 2017 , 329, 205-210	12.8	40
435	Nanodendritic gold/graphene-based biosensor for tri-mode miRNA sensing. <i>Chemical Communications</i> , 2019 , 55, 1742-1745	5.8	40
434	Near-infrared triggered Ti3C2/g-C3N4 heterostructure for mitochondria-targeting multimode photodynamic therapy combined photothermal therapy. <i>Nano Today</i> , 2020 , 34, 100919	17.9	40
433	Biosensors for early diagnosis of pancreatic cancer: a review. <i>Translational Research</i> , 2019 , 213, 67-89	11	40
432	Non-Fenton-Type Hydroxyl Radical Generation and Photothermal Effect by Mitochondria-Targeted WSSe/MnO2 Nanocomposite Loaded with Isoniazid for Synergistic Anticancer Treatment. <i>Advanced Functional Materials</i> , 2019 , 29, 1903850	15.6	40
431	Immobilization of bovine serum albumin-protected gold nanoclusters by using polyelectrolytes of opposite charges for the development of the reusable fluorescent Cu ²⁺ -sensor. <i>Biosensors and Bioelectronics</i> , 2013 , 44, 16-20	11.8	40
430	High-sensitive surface plasmon resonance microRNA biosensor based on streptavidin functionalized gold nanorods-assisted signal amplification. <i>Analytica Chimica Acta</i> , 2017 , 954, 114-120	6.6	39
429	DACT2 is a functional tumor suppressor through inhibiting Wnt/ β -catenin pathway and associated with poor survival in colon cancer. <i>Oncogene</i> , 2015 , 34, 2575-85	9.2	39
428	Magnetic zirconium hexacyanoferrate(II) nanoparticle as tracing tag for electrochemical DNA assay. <i>Analytical Chemistry</i> , 2015 , 87, 9093-100	7.8	39
427	Bioinspired Superwetable Microspine Chips with Directional Droplet Transportation for Biosensing. <i>ACS Nano</i> , 2020 , 14, 4654-4661	16.7	39
426	Sensitive and selective colorimetric assay of alkaline phosphatase activity with Cu(II)-phenanthroline complex. <i>Talanta</i> , 2017 , 163, 146-152	6.2	39
425	Nanometer size electrode for nitric oxide and S-nitrosothiols measurement. <i>Electrochemistry Communications</i> , 2002 , 4, 11-16	5.1	39
424	Bioinspired DNA-Inorganic Hybrid Nanoflowers Combined with a Personal Glucose Meter for Onsite Detection of miRNA. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42050-42057	9.5	39
423	Alisertib induces cell cycle arrest and autophagy and suppresses epithelial-to-mesenchymal transition involving PI3K/Akt/mTOR and sirtuin 1-mediated signaling pathways in human pancreatic cancer cells. <i>Drug Design, Development and Therapy</i> , 2015 , 9, 575-601	4.4	38
422	A Novel Microchip Nitric Oxide Sensor with sub-nM Detection Limit. <i>Electroanalysis</i> , 2002 , 14, 697	3	38
421	Over-oxidized polypyrrole-modified carbon fibre ultramicroelectrode with an integrated silver/silver chloride reference electrode for the selective voltammetric measurement of dopamine in extremely small sample volumes. <i>Analyst, The</i> , 1996 , 121, 1817-1822	5	38

420	Bacterial Vesicle-Cancer Cell Hybrid Membrane-Coated Nanoparticles for Tumor Specific Immune Activation and Photothermal Therapy. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 41138-41147	9.5	38
419	Dendritic porous yolk@ordered mesoporous shell structured heterogeneous nanocatalysts with enhanced stability. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 21560-21569	13	37
418	Pro-apoptotic and pro-autophagic effects of the Aurora kinase A inhibitor alisertib (MLN8237) on human osteosarcoma U-2 OS and MG-63 cells through the activation of mitochondria-mediated pathway and inhibition of p38 MAPK/PI3K/Akt/mTOR signaling pathway. <i>Drug Design, Development and Therapy</i> , 2015 , 9, 1555-84	4.4	37
417	Self-interconnecting Pt nanowire network electrode for electrochemical amperometric biosensor. <i>Nanoscale</i> , 2015 , 7, 11460-7	7.7	37
416	Targeting Na ⁺ /K ⁺ -translocating adenosine triphosphatase in cancer treatment. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2015 , 42, 427-43	3	36
415	Clinical association between pharmacogenomics and adverse drug reactions. <i>Drugs</i> , 2015 , 75, 589-631	12.1	36
414	Alisertib, an Aurora kinase A inhibitor, induces apoptosis and autophagy but inhibits epithelial to mesenchymal transition in human epithelial ovarian cancer cells. <i>Drug Design, Development and Therapy</i> , 2015 , 9, 425-64	4.4	36
413	Flexible Superwetable Tapes for On-Site Detection of Heavy Metals. <i>Analytical Chemistry</i> , 2018 , 90, 14105-14110	7.8	36
412	An ultrasensitive electrochemical method for detection of Ag(+) based on cyclic amplification of exonuclease III activity on cytosine-Ag(+)-cytosine. <i>Analyst, The</i> , 2013 , 138, 6900-6	5	35
411	In situ growth cupric oxide nanoparticles on carbon nanofibers for sensitive nonenzymatic sensing of glucose. <i>Electrochimica Acta</i> , 2013 , 105, 433-438	6.7	35
410	Chemical Etching of Bovine Serum Albumin-Protected Au ₂₅ Nanoclusters for Label-Free and Separation-Free Ratiometric Fluorescent Detection of Tris(2-carboxyethyl)phosphine. <i>Analytical Chemistry</i> , 2016 , 88, 11193-11198	7.8	34
409	Stability improvement of Prussian blue in nonacidic solutions via an electrochemical post-treatment method and the shape evolution of Prussian blue from nanospheres to nanocubes. <i>Analyst, The</i> , 2014 , 139, 1127-33	5	34
408	Real-time profiling of kidney tubular fluid nitric oxide concentrations in vivo. <i>American Journal of Physiology - Renal Physiology</i> , 2001 , 281, F189-94	4.3	34
407	Enhanced Electrochemiluminescence of One-Dimensional Self-Assembled Porphyrin Hexagonal Nanoprisms. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20904-20912	9.5	33
406	Electrochemically mediated polymerization for highly sensitive detection of protein kinase activity. <i>Biosensors and Bioelectronics</i> , 2018 , 110, 52-57	11.8	33
405	CREPT facilitates colorectal cancer growth through inducing Wnt/βcatenin pathway by enhancing p300-mediated βcatenin acetylation. <i>Oncogene</i> , 2018 , 37, 3485-3500	9.2	33
404	Atom-Thin SnS ₂ -xSex with Adjustable Compositions by Direct Liquid Exfoliation from Single Crystals. <i>ACS Nano</i> , 2016 , 10, 755-62	16.7	33
403	Controlled release of DNA from carbon-paste microelectrodes. <i>Electrochemistry Communications</i> , 1999 , 1, 197-202	5.1	33

402	Turn-On Colorimetric Platform for Dual Activity Detection of Acid and Alkaline Phosphatase in Human Whole Blood. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 3040-3045	4.5	33
401	Biodegradable Metal-Organic Frameworks Power DNzyme for in Vivo Temporal-Spatial Control Fluorescence Imaging of Aberrant MicroRNA and Hypoxic Tumor. <i>Analytical Chemistry</i> , 2020 , 92, 8333-8339	7.8	32
400	Highly-sensitive microRNA detection based on bio-bar-code assay and catalytic hairpin assembly two-stage amplification. <i>Analytica Chimica Acta</i> , 2018 , 1004, 1-9	6.6	32
399	Superhydrophilic cotton thread with temperature-dependent pattern for sensitive nucleic acid detection. <i>Biosensors and Bioelectronics</i> , 2016 , 86, 951-957	11.8	32
398	MoS ₂ nanoparticles coupled to SnS ₂ nanosheets: The structural and electronic modulation for synergetic electrocatalytic hydrogen evolution. <i>Journal of Catalysis</i> , 2018 , 366, 8-15	7.3	32
397	Sensitive electrochemical detection of NADH and ethanol at low potential based on pyrocatechol violet electrodeposited on single walled carbon nanotubes-modified pencil graphite electrode. <i>Talanta</i> , 2014 , 130, 96-102	6.2	32
396	Fractal gold modified electrode for ultrasensitive thrombin detection. <i>Nanoscale</i> , 2012 , 4, 3786-90	7.7	32
395	Screen Printed Cupric-Hexacyanoferrate Modified Carbon Enzyme Electrode for Single-Use Glucose Measurements. <i>Analytical Letters</i> , 1999 , 32, 1739-1749	2.2	32
394	Photoluminescent two-dimensional SiC quantum dots for cellular imaging and transport. <i>Nano Research</i> , 2018 , 11, 4074-4081	10	31
393	Broadband antireflective superhydrophilic antifogging nano-coatings based on three-layer system. <i>Microporous and Mesoporous Materials</i> , 2018 , 255, 84-93	5.3	31
392	MicroRNA Triggered DNA "Nano Wheel" for Visualizing Intracellular microRNA via Localized DNA Cascade Reaction. <i>Analytical Chemistry</i> , 2019 , 91, 9828-9835	7.8	31
391	Visualizing latent fingerprints by electrodeposition of metal nanoparticles. <i>Journal of Electroanalytical Chemistry</i> , 2013 , 693, 122-126	4.1	31
390	Microdroplet-captured tapes for rapid sampling and SERS detection of food contaminants. <i>Biosensors and Bioelectronics</i> , 2020 , 152, 112013	11.8	30
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387	Effect of foliar treatment of sodium selenate on postharvest decay and quality of tomato fruits. <i>Scientia Horticulturae</i> , 2016 , 198, 304-310	4.1	30
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385	Plumbagin induces cell cycle arrest and autophagy and suppresses epithelial to mesenchymal transition involving PI3K/Akt/mTOR-mediated pathway in human pancreatic cancer cells. <i>Drug Design, Development and Therapy</i> , 2015 , 9, 537-60	4.4	30

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376	Integration of adsorption and reduction for uranium uptake based on SrTiO ₃ /TiO ₂ electrospun nanofibers. <i>Applied Surface Science</i> , 2018 , 428, 819-824	6.7	29
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365	Renewable superwetable biochip for miRNA detection. <i>Sensors and Actuators B: Chemical</i> , 2018 , 258, 715-721	8.5	28
364	Synergistic Inhibitory Effect of QDs-Tramiprosate Covalent Binding on Amyloid Aggregation. <i>ACS Chemical Neuroscience</i> , 2018 , 9, 817-823	5.7	28
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344	Sensitively distinguishing intracellular precursor and mature microRNA abundance. <i>Chemical Science</i> , 2019 , 10, 1709-1715	9.4	25
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341	Catalytic hairpin assembly gel assay for multiple and sensitive microRNA detection. <i>Theranostics</i> , 2018 , 8, 2646-2656	12.1	25
340	Systematic study of dye loaded small mesoporous silica nanoparticles for detecting latent fingerprints on various substrates. <i>Journal of Porous Materials</i> , 2017 , 24, 13-20	2.4	25
339	Inhibition of mitotic Aurora kinase A by alisertib induces apoptosis and autophagy of human gastric cancer AGS and NCI-N78 cells. <i>Drug Design, Development and Therapy</i> , 2015 , 9, 487-508	4.4	25
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328	Inhibition of Aurora kinases induces apoptosis and autophagy via AURKB/p70S6K/RPL15 axis in human leukemia cells. <i>Cancer Letters</i> , 2016 , 382, 215-230	9.9	23
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325	Carbon nanotubes and manganese oxide hybrid nanostructures as high performance fiber supercapacitors. <i>Communications Chemistry</i> , 2018 , 1,	6.3	22
324	A three-line lateral flow biosensor for logic detection of microRNA based on Y-shaped junction DNA and target recycling amplification. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 8195-8202	4.4	22
323	Effect of harpin on control of postharvest decay and resistant responses of tomato fruit. <i>Postharvest Biology and Technology</i> , 2016 , 112, 241-246	6.2	22
322	Cobalt hexacyanoferrate electrodeposited on electrode with the assistance of laponite: The enhanced electrochemical sensing of captopril. <i>Electrochimica Acta</i> , 2016 , 198, 32-39	6.7	22
321	Ultrasensitive DNA biosensor based on electrochemical atom transfer radical polymerization. <i>Biosensors and Bioelectronics</i> , 2019 , 131, 193-199	11.8	22
320	A Semimetal-Like Molybdenum Carbide Quantum Dots Photoacoustic Imaging and Photothermal Agent with High Photothermal Conversion Efficiency. <i>Materials</i> , 2018 , 11,	3.5	22
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302	A 3D Printed Hanging Drop Dropper for Tumor Spheroids Analysis Without Recovery. <i>Scientific Reports</i> , 2019 , 9, 19717	4.9	19
301	A lightweight MXene-Coated nonwoven fabric with excellent flame Retardancy, EMI Shielding, and Electrothermal/Photothermal conversion for wearable heater. <i>Chemical Engineering Journal</i> , 2021 , 430, 132605	14.7	19
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287	Capillary-driven spontaneous oil/water separation by superwetable twines. <i>Nanoscale</i> , 2015 , 7, 13164-77.7		16
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6 Nanostructure for Nitric Oxide Electrochemical Sensing **2011**, 333-347

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