

Xianbo Lu

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.

58
papers

3,481
citations

30
h-index

59
g-index

61
ext. papers

3,824
ext. citations

9.5
avg, IF

5.34
L-index

#	Paper	IF	Citations
58	Recent advances in nanomaterials for water protection and monitoring. <i>Chemical Society Reviews</i> , 2017 , 46, 6946-7020	58.5	332
57	Direct electrochemistry of glucose oxidase and electrochemical biosensing of glucose on quantum dots/carbon nanotubes electrodes. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 3203-9	11.8	283
56	Composite system based on chitosan and room-temperature ionic liquid: direct electrochemistry and electrocatalysis of hemoglobin. <i>Biomacromolecules</i> , 2006 , 7, 975-80	6.9	275
55	Direct electron transfer of horseradish peroxidase and its biosensor based on chitosan and room temperature ionic liquid. <i>Electrochemistry Communications</i> , 2006 , 8, 874-878	5.1	160
54	2D transition metal carbide MXene as a robust biosensing platform for enzyme immobilization and ultrasensitive detection of phenol. <i>Biosensors and Bioelectronics</i> , 2018 , 107, 69-75	11.8	153
53	3D metal-organic framework as highly efficient biosensing platform for ultrasensitive and rapid detection of bisphenol A. <i>Biosensors and Bioelectronics</i> , 2015 , 65, 295-301	11.8	149
52	Porous nanosheet-based ZnO microspheres for the construction of direct electrochemical biosensors. <i>Biosensors and Bioelectronics</i> , 2008 , 24, 93-8	11.8	144
51	Carbon nanofiber-based composites for the construction of mediator-free biosensors. <i>Biosensors and Bioelectronics</i> , 2008 , 23, 1236-43	11.8	144
50	Nanographene-based tyrosinase biosensor for rapid detection of bisphenol A. <i>Biosensors and Bioelectronics</i> , 2012 , 35, 193-199	11.8	131
49	Direct electrochemistry and electrocatalysis based on film of horseradish peroxidase intercalated into layered titanate nano-sheets. <i>Biosensors and Bioelectronics</i> , 2007 , 23, 102-6	11.8	120
48	Room Temperature Ionic Liquid Based Polystyrene Nanofibers with Superhydrophobicity and Conductivity Produced by Electrospinning. <i>Chemistry of Materials</i> , 2008 , 20, 3420-3424	9.6	113
47	Hydroxyl-containing antimony oxide bromide nanorods combined with chitosan for biosensors. <i>Biomaterials</i> , 2006 , 27, 5740-7	15.6	107
46	Temperature, ionic strength and pH induced electrochemical switching of smart polymer interfaces. <i>Chemical Communications</i> , 2006 , 4820-2	5.8	94
45	Development of biosensor technologies for analysis of environmental contaminants. <i>Trends in Environmental Analytical Chemistry</i> , 2014 , 2, 25-32	12	72
44	Polybrominated diphenyl ethers in sediments of the Daliao River Estuary, China: levels, distribution and their influencing factors. <i>Chemosphere</i> , 2011 , 82, 1262-7	8.4	69
43	PCDD/Fs and PCBs in sediments of the Liaohe River, China: levels, distribution, and possible sources. <i>Chemosphere</i> , 2010 , 79, 754-62	8.4	69
42	Hemoglobin entrapped within a layered spongy Co ₃ O ₄ based nanocomposite featuring direct electron transfer and peroxidase activity. <i>Journal of Materials Chemistry</i> , 2007 , 17, 1427		63

41	Response Characteristics of Bisphenols on a Metal-Organic Framework-Based Tyrosinase Nanosensor. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16533-9	9.5	55
40	Assembly of quantum dots-mesoporous silicate hybrid material for protein immobilization and direct electrochemistry. <i>Biosensors and Bioelectronics</i> , 2007 , 23, 695-700	11.8	50
39	Solid-state amperometric hydrogen sensor based on polymer electrolyte membrane fuel cell. <i>Sensors and Actuators B: Chemical</i> , 2005 , 107, 812-817	8.5	47
38	Electrochemical biosensing platform based on amino acid ionic liquid functionalized graphene for ultrasensitive biosensing applications. <i>Biosensors and Bioelectronics</i> , 2014 , 62, 134-9	11.8	46
37	Advances in sensing and biosensing of bisphenols: A review. <i>Analytica Chimica Acta</i> , 2018 , 998, 1-27	6.6	43
36	A promising electrochemical biosensing platform based on graphitized ordered mesoporous carbon. <i>Journal of Materials Chemistry</i> , 2009 , 19, 4707		42
35	Reduced graphene oxide and gold nanoparticle composite-based solid-phase extraction coupled with ultra-high-performance liquid chromatography-tandem mass spectrometry for the determination of 9 mycotoxins in milk. <i>Food Chemistry</i> , 2018 , 264, 218-225	8.5	40
34	Graphitized macroporous carbon microarray with hierarchical mesopores as host for the fabrication of electrochemical biosensor. <i>Biosensors and Bioelectronics</i> , 2009 , 25, 244-7	11.8	40
33	Reversible immobilization and direct electron transfer of cytochrome c on a pH-sensitive polymer interface. <i>Chemistry - A European Journal</i> , 2007 , 13, 2847-53	4.8	38
32	Catalytic destruction of chlorinated aromatic pollutants over mesoporous $Cu_xMg_{1-x}Al_2O_4$ spinel oxides. <i>Applied Catalysis B: Environmental</i> , 2011 , 101, 606-612	21.8	36
31	Gold Nanoparticles dotted Reduction Graphene Oxide Nanocomposite Based Electrochemical Aptasensor for Selective, Rapid, Sensitive and Congener-Specific PCB77 Detection. <i>Scientific Reports</i> , 2017 , 7, 5191	4.9	32
30	Electrochemical DNA biosensor for screening of chlorinated benzene pollutants. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 4040-5	11.8	30
29	Poly(N-isopropylacrylamide) Interfaces with Dissimilar Thermo-responsive Behavior for Controlling Ion Permeation and Immobilization. <i>Advanced Functional Materials</i> , 2007 , 17, 3377-3382	15.6	30
28	Graphdiyne: A new promising member of 2D all-carbon nanomaterial as robust electrochemical enzyme biosensor platform. <i>Carbon</i> , 2020 , 156, 568-575	10.4	30
27	Multiresidue determination and potential risks of emerging pesticides in aquatic products from Northeast China by LC-MS/MS. <i>Journal of Environmental Sciences</i> , 2018 , 63, 116-125	6.4	29
26	Destruction of polychlorinated aromatic compounds by spinel-type complex oxides. <i>Environmental Science & Technology</i> , 2010 , 44, 3079-84	10.3	29
25	Robust Single-Molecule Enzyme Nanocapsules for Biosensing with Significantly Improved Biosensor Stability. <i>Analytical Chemistry</i> , 2020 , 92, 5830-5837	7.8	28
24	Polychlorinated dibenzo-p-dioxins and dibenzofurans in soils and sediments from Daliao River Basin, China. <i>Chemosphere</i> , 2008 , 73, 1640-8	8.4	27

23	Quantification of Short-Chain Chlorinated Paraffins by Deuterodechlorination Combined with Gas Chromatography-Mass Spectrometry. <i>Environmental Science & Technology</i> , 2016 , 50, 3746-53	10.3	27
22	CoO nanoparticles supported mesoporous carbon framework interface for glucose biosensing. <i>Talanta</i> , 2019 , 203, 112-121	6.2	25
21	Amino acid ionic liquid modified mesoporous carbon: a tailor-made nanostructure biosensing platform. <i>ChemSusChem</i> , 2012 , 5, 1918-25	8.3	25
20	A novel electrochemical PCB77-binding DNA aptamer biosensor for selective detection of PCB77. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 771, 45-49	4.1	25
19	Bioaccumulation of organochlorine pesticides and polychlorinated biphenyls by loaches living in rice paddy fields of Northeast China. <i>Environmental Pollution</i> , 2016 , 216, 893-901	9.3	24
18	Bioaccumulation and human health implications of essential and toxic metals in freshwater products of Northeast China. <i>Science of the Total Environment</i> , 2019 , 673, 768-776	10.2	21
17	Bioaccumulation and human health risks of OCPs and PCBs in freshwater products of Northeast China. <i>Environmental Pollution</i> , 2018 , 242, 1527-1534	9.3	21
16	Enrichment of polycyclic aromatic hydrocarbons in seawater with magnesium oxide microspheres as a solid-phase extraction sorbent. <i>Analytica Chimica Acta</i> , 2010 , 678, 183-8	6.6	21
15	Tyrosinase nanocapsule based nano-biosensor for ultrasensitive and rapid detection of bisphenol A with excellent stability in different application scenarios. <i>Biosensors and Bioelectronics</i> , 2020 , 165, 112407	11.8	20
14	Direct Electrochemical Tyrosinase Biosensor based on Mesoporous Carbon and Co ₃ O ₄ Nanorods for the Rapid Detection of Phenolic Pollutants. <i>ChemElectroChem</i> , 2014 , 1, 808-816	4.3	20
13	Reduced Graphene Oxide-Gold Nanoparticle Nanoframework as a Highly Selective Separation Material for Aflatoxins. <i>Scientific Reports</i> , 2017 , 7, 14484	4.9	15
12	Irrigation-induced pollution of organochlorine pesticides and polychlorinated biphenyls in paddy field ecosystem of Liaohe River Plain, China. <i>Science Bulletin</i> , 2013 , 58, 1751-1759		14
11	Ammonium hydroxide enhancing electrospray response and boosting sensitivity of bisphenol A and its analogs. <i>Talanta</i> , 2018 , 182, 590-594	6.2	11
10	Quantification of Cl-PAHs and their parent compounds in fish by improved ASE method and stable isotope dilution GC-MS. <i>Ecotoxicology and Environmental Safety</i> , 2019 , 186, 109775	7	10
9	Surface modification of spherical magnesium oxide with ethylene glycol. <i>Materials Letters</i> , 2009 , 63, 1514-1516	3.3	9
8	The selective cleanup of complex matrices and simultaneous separation of benzo[a]pyrene by solid-phase extraction with MgO microspheres as sorbents. <i>Journal of Chromatography A</i> , 2011 , 1218, 9149-54	4.5	7
7	Levels and patterns of polychlorinated dibenzo-p-dioxins and dibenzofurans and polychlorinated biphenyls in foodstuffs of animal origin from Chinese markets and implications of dietary exposure. <i>Environmental Pollution</i> , 2020 , 273, 116344	9.3	7
6	Nitrogen-Doped Graphdiyne as a Robust Electrochemical Biosensing Platform for Ultrasensitive Detection of Environmental Pollutants. <i>Analytical Chemistry</i> , 2021 , 93, 8656-8662	7.8	7

5	Accumulation characteristics and estimated dietary intakes of polychlorinated dibenzo-p-dioxins, polychlorinated dibenzofurans and polychlorinated biphenyls in plant-origin foodstuffs from Chinese markets. <i>Science of the Total Environment</i> , 2021 , 775, 145830	10.2	7
4	Preparation, characterization and application of octadecyl modified magnesium oxide microspheres. <i>Analytica Chimica Acta</i> , 2011 , 693, 54-61	6.6	6
3	An electrochemical deoxyribonucleic acid biosensor for rapid genotoxicity screening of chemicals. <i>Analytical Methods</i> , 2015 , 7, 3347-3352	3.2	4
2	Retention of nonionic organic compounds on thermally treated soils. <i>Environmental Science & Technology</i> , 2010 , 44, 3677-82	10.3	2
1	Ultrathin graphdiyne nanosheets confining Cu quantum dots as robust electrocatalyst for biosensing featuring remarkably enhanced activity and stability.. <i>Biosensors and Bioelectronics</i> , 2022 , 205, 114111	11.8	2