

# Xianbo Lu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8472683/publications.pdf>

Version: 2024-02-01

58  
papers

4,236  
citations

109321

35  
h-index

133252

59  
g-index

61  
all docs

61  
docs citations

61  
times ranked

5527  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in nanomaterials for water protection and monitoring. <i>Chemical Society Reviews</i> , 2017, 46, 6946-7020.	38.1	441
2	Direct electrochemistry of glucose oxidase and electrochemical biosensing of glucose on quantum dots/carbon nanotubes electrodes. <i>Biosensors and Bioelectronics</i> , 2007, 22, 3203-3209.	10.1	312
3	Composite System Based on Chitosan and Room-Temperature Ionic Liquid: A Direct Electrochemistry and Electrocatalysis of Hemoglobin. <i>Biomacromolecules</i> , 2006, 7, 975-980.	5.4	289
4	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.	10.1	251
5	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.	10.1	181
6	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.	4.7	173
7	Porous nanosheet-based ZnO microspheres for the construction of direct electrochemical biosensors. <i>Biosensors and Bioelectronics</i> , 2008, 24, 93-98.	10.1	166
8	Carbon nanofiber-based composites for the construction of mediator-free biosensors. <i>Biosensors and Bioelectronics</i> , 2008, 23, 1236-1243.	10.1	158
9	Nanographene-based tyrosinase biosensor for rapid detection of bisphenol A. <i>Biosensors and Bioelectronics</i> , 2012, 35, 193-199.	10.1	135
10	Direct electrochemistry and electrocatalysis based on film of horseradish peroxidase intercalated into layered titanate nano-sheets. <i>Biosensors and Bioelectronics</i> , 2007, 23, 102-106.	10.1	125
11	Room Temperature Ionic Liquid Based Polystyrene Nanofibers with Superhydrophobicity and Conductivity Produced by Electrospinning. <i>Chemistry of Materials</i> , 2008, 20, 3420-3424.	6.7	123
12	Hydroxyl-containing antimony oxide bromide nanorods combined with chitosan for biosensors. <i>Biomaterials</i> , 2006, 27, 5740-5747.	11.4	116
13	Temperature, ionic strength and pH induced electrochemical switching of smart polymer interfaces. <i>Chemical Communications</i> , 2006, , 4820.	4.1	100
14	Development of biosensor technologies for analysis of environmental contaminants. <i>Trends in Environmental Analytical Chemistry</i> , 2014, 2, 25-32.	10.3	96
15	PCDD/Fs and PCBs in sediments of the Liaohe River, China: Levels, distribution, and possible sources. <i>Chemosphere</i> , 2010, 79, 754-762.	8.2	79
16	Polybrominated diphenyl ethers in sediments of the Daliao River Estuary, China: Levels, distribution and their influencing factors. <i>Chemosphere</i> , 2011, 82, 1262-1267.	8.2	75
17	Response Characteristics of Bisphenols on a Metal-Organic Framework-Based Tyrosinase Nanosensor. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 16533-16539.	8.0	72
18	Hemoglobin entrapped within a layered spongy Co <sub>3</sub> O <sub>4</sub> based nanocomposite featuring direct electron transfer and peroxidase activity. <i>Journal of Materials Chemistry</i> , 2007, 17, 1427.	6.7	70

#	ARTICLE	IF	CITATIONS
19	Advances in sensing and biosensing of bisphenols: A review. <i>Analytica Chimica Acta</i> , 2018, 998, 1-27.	5.4	66
20	Graphdiyne: A new promising member of 2D all-carbon nanomaterial as robust electrochemical enzyme biosensor platform. <i>Carbon</i> , 2020, 156, 568-575.	10.3	64
21	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.	8.2	63
22	Solid-state amperometric hydrogen sensor based on polymer electrolyte membrane fuel cell. <i>Sensors and Actuators B: Chemical</i> , 2005, 107, 812-817.	7.8	56
23	Assembly of quantum dots-mesoporous silicate hybrid material for protein immobilization and direct electrochemistry. <i>Biosensors and Bioelectronics</i> , 2007, 23, 695-700.	10.1	55
24	Electrochemical biosensing platform based on amino acid ionic liquid functionalized graphene for ultrasensitive biosensing applications. <i>Biosensors and Bioelectronics</i> , 2014, 62, 134-139.	10.1	51
25	A promising electrochemical biosensing platform based on graphitized ordered mesoporous carbon. <i>Journal of Materials Chemistry</i> , 2009, 19, 4707.	6.7	45
26	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.	6.1	44
27	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.	20.2	42
28	Graphitized macroporous carbon microarray with hierarchical mesopores as host for the fabrication of electrochemical biosensor. <i>Biosensors and Bioelectronics</i> , 2009, 25, 244-247.	10.1	41
29	Robust Single-Molecule Enzyme Nanocapsules for Biosensing with Significantly Improved Biosensor Stability. <i>Analytical Chemistry</i> , 2020, 92, 5830-5837.	6.5	41
30	Reversible Immobilization and Direct Electron Transfer of Cytochrome <i>c</i> on a pH-Sensitive Polymer Interface. <i>Chemistry - A European Journal</i> , 2007, 13, 2847-2853.	3.3	40
31	Co <sub>3</sub> O <sub>4</sub> nanoparticles supported mesoporous carbon framework interface for glucose biosensing. <i>Talanta</i> , 2019, 203, 112-121.	5.5	37
32	Poly( <i>N</i> -isopropylacrylamide) Interfaces with Dissimilar Thermo-responsive Behavior for Controlling Ion Permeation and Immobilization. <i>Advanced Functional Materials</i> , 2007, 17, 3377-3382.	14.9	36
33	Quantification of Short-Chain Chlorinated Paraffins by Deuterodechlorination Combined with Gas Chromatography-Mass Spectrometry. <i>Environmental Science &amp; Technology</i> , 2016, 50, 3746-3753.	10.0	36
34	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.	3.3	36
35	Destruction of Polychlorinated Aromatic Compounds by Spinel-Type Complex Oxides. <i>Environmental Science &amp; Technology</i> , 2010, 44, 3079-3084.	10.0	35
36	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.	10.1	35

#	ARTICLE	IF	CITATIONS
37	Electrochemical DNA biosensor for screening of chlorinated benzene pollutants. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4040-4045.	10.1	34
38	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.	7.5	33
39	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.	8.0	33
40	Nitrogen-Doped Graphdiyne as a Robust Electrochemical Biosensing Platform for Ultrasensitive Detection of Environmental Pollutants. <i>Analytical Chemistry</i> , 2021, 93, 8656-8662.	6.5	33
41	A novel electrochemical PCB77-binding DNA aptamer biosensor for selective detection of PCB77. <i>Journal of Electroanalytical Chemistry</i> , 2016, 771, 45-49.	3.8	31
42	Bioaccumulation and human health risks of OCPs and PCBs in freshwater products of Northeast China. <i>Environmental Pollution</i> , 2018, 242, 1527-1534.	7.5	30
43	Polychlorinated dibenzo-p-dioxins and dibenzofurans in soils and sediments from Daliao River Basin, China. <i>Chemosphere</i> , 2008, 73, 1640-1648.	8.2	28
44	Amino Acid Ionic Liquid Modified Mesoporous Carbon: A Tailor-made Nanostructure Biosensing Platform. <i>ChemSusChem</i> , 2012, 5, 1918-1925.	6.8	27
45	Enrichment of polycyclic aromatic hydrocarbons in seawater with magnesium oxide microspheres as a solid-phase extraction sorbent. <i>Analytica Chimica Acta</i> , 2010, 678, 183-188.	5.4	23
46	Reduced Graphene Oxide-Gold Nanoparticle Nanoframework as a Highly Selective Separation Material for Aflatoxins. <i>Scientific Reports</i> , 2017, 7, 14484.	3.3	22
47	Direct Electrochemical Tyrosinase Biosensor based on Mesoporous Carbon and Co <sub>3</sub> O <sub>4</sub> Nanorods for the Rapid Detection of Phenolic Pollutants. <i>ChemElectroChem</i> , 2014, 1, 808-816.	3.4	21
48	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.	1.7	20
49	Ammonium hydroxide enhancing electrospray response and boosting sensitivity of bisphenol A and its analogs. <i>Talanta</i> , 2018, 182, 590-594.	5.5	18
50	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.	6.0	18
51	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.	10.1	15
52	Surface modification of spherical magnesium oxide with ethylene glycol. <i>Materials Letters</i> , 2009, 63, 1514-1516.	2.6	13
53	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> , 2021, 273, 116344.	7.5	13
54	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.	8.0	12

#	ARTICLE	IF	CITATIONS
55	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, 9149-9154.	3.7	8
56	Preparation, characterization and application of octadecyl modified magnesium oxide microspheres. <i>Analytica Chimica Acta</i> , 2011, 693, 54-61.	5.4	6
57	An electrochemical deoxyribonucleic acid biosensor for rapid genotoxicity screening of chemicals. <i>Analytical Methods</i> , 2015, 7, 3347-3352.	2.7	6
58	Retention of Nonionic Organic Compounds on Thermally Treated Soils. <i>Environmental Science &amp; Technology</i> , 2010, 44, 3677-3682.	10.0	4