Meichuan Liu

List of Publications by Year
in descending order

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		236833	330025
37	2,050	25	37
papers	citations	h-index	g-index

37	37	37	2521
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced Reactivity and Electron Selectivity of Sulfidated Zerovalent Iron toward Chromate under Aerobic Conditions. Environmental Science & Technology, 2018, 52, 2988-2997.	4.6	207
2	A highly selective electrochemical impedance spectroscopy-based aptasensor for sensitive detection of acetamiprid. Biosensors and Bioelectronics, 2013, 43, 12-18.	5.3	190
3	Aptamer-based colorimetric sensing of acetamiprid in soil samples: Sensitivity, selectivity and mechanism. Journal of Hazardous Materials, 2013, 260, 754-761.	6.5	165
4	High-Yield and Selective Photoelectrocatalytic Reduction of CO₂ to Formate by Metallic Copper Decorated Co₃O₄ Nanotube Arrays. Environmental Science & Technology, 2015, 49, 5828-5835.	4.6	155
5	A Femtomolar Level and Highly Selective 17Î²-estradiol Photoelectrochemical Aptasensor Applied in Environmental Water Samples Analysis. Environmental Science & Technology, 2014, 48, 5754-5761.	4.6	116
6	Fabrication, Characterization, and Photoelectrocatalytic Application of ZnO Nanorods Grafted on Vertically Aligned TiO₂ Nanotubes. Journal of Physical Chemistry C, 2009, 113, 19067-19076.	1.5	105
7	A pM leveled photoelectrochemical sensor for microcystin-LR based on surface molecularly imprinted TiO 2 @CNTs nanostructure. Journal of Hazardous Materials, 2017, 331, 309-320.	6.5	81
8	Fabrication of a Novel and Simple Microcystin-LR Photoelectrochemical Sensor with High Sensitivity and Selectivity. Environmental Science & Technology, 2012, 46, 11955-11961.	4.6	79
9	Growth and Favorable Bioelectrocatalysis of Multishaped Nanocrystal Au in Vertically Aligned TiO₂ Nanotubes for Hemoprotein. Journal of Physical Chemistry C, 2008, 112, 14786-14795.	1.5	70
10	A Fetomolar Level 17Î²-estradiol Electrochemical Aptasensor Constructed On Hierachical Dendritic Gold Modified Boron-Doped Diamond Electrode. Electrochimica Acta, 2014, 137, 146-153.	2.6	69
11	A Novel Photoelectrochemical Sensor for Bisphenol A with High Sensitivity and Selectivity Based on Surface Molecularly Imprinted Polypyrrole Modified TiO₂ Nanotubes. Electroanalysis, 2013, 25, 771-779.	1.5	62
12	Synergistic Photoelectrochemical Synthesis of Formate from CO₂ on {121Ì…} Hierarchical Co₃O₄. Journal of Physical Chemistry C, 2013, 117, 26432-26440.	1.5	62
13	A Simple, Stable and Picomole Level Lead Sensor Fabricated on DNA-based Carbon Hybridized TiO₂ Nanotube Arrays. Environmental Science & Technology, 2010, 44, 4241-4246.	4.6	56
14	Identification of the role of Cu site in Ni-Cu hydroxide for robust and high selective electrochemical ammonia oxidation to nitrite. Electrochimica Acta, 2020, 345, 136157.	2.6	51
15	Fabrication of a Novel Atrazine Biosensor and Its Subpart-per-Trillion Levels Sensitive Performance. Environmental Science & Technology, 2010, 44, 7878-7883.	4.6	50
16	Enhanced trichloroethylene dechlorination by carbon-modified zero-valent iron: Revisiting the role of carbon additives. Journal of Hazardous Materials, 2020, 394, 122564.	6.5	49
17	Fabrication and High Electrocatalytic Activity of Three-Dimensional Porous Nanosheet Pt/Boron-Doped Diamond Hybrid Film. Journal of Physical Chemistry C, 2009, 113, 13787-13792.	1.5	45
18	Selective Electrocatalytic Degradation of Odorous Mercaptans Derived from Sâ€“Au Bond Recongnition on a Dendritic Gold/Boron-Doped Diamond Composite Electrode. Environmental Science & Technology, 2017, 51, 8067-8076.	4.6	42

#	Article	IF	Citations
19	A simple and highly selective electrochemical label-free aptasensor of 17Î²-estradiol based on signal amplification of bi-functional graphene. Talanta, 2019, 194, 266-272.	2.9	40
20	Integrated Biological and Electrochemical Oxidation Treatment for High Toxicity Pesticide Pollutant. Industrial & Engineering Chemistry Research, 2010, 49, 5496-5503.	1.8	39
21	Immobilization-free photoelectrochemical aptasensor for environmental pollutants: Design, fabrication and mechanism. Biosensors and Bioelectronics, 2019, 140, 111352.	5.3	38
22	Simple and Feasible Simultaneous Determination of Three Phenolic Pollutants on Boronâ€Doped Diamond Film Electrode. Electroanalysis, 2007, 19, 1933-1938.	1.5	36
23	Photoelectrochemical Aptasensor for the Sensitive Detection of Microcystinâ€LR Based on Graphene Functionalized Verticallyâ€aligned TiO₂ Nanotubes. Electroanalysis, 2016, 28, 161-168.	1.5	34
24	Visible-light-driven photoelectrochemical aptasensor based on reduced graphene oxide/Tiâ€“Feâ€“O nanotube arrays for highly sensitive and selective determination of microcystin-LR. Electrochimica Acta, 2019, 324, 134820.	2.6	28
25	Enzyme-Free Molecularly Imprinted and Graphene-Functionalized Photoelectrochemical Sensor Platform for Pollutants. ACS Applied Materials & Interfaces, 2021, 13, 37212-37222.	4.0	27
26	A Visibleâ€Light Driven Photoelectrochemical Aptasensor for Endocrine Disrupting Chemicals Bisphenol A with High Sensitivity and Specificity. Electroanalysis, 2013, 25, 1787-1795.	1.5	26
27	A simple, supersensitive and highly selective electrochemical aptasensor for Microcystin-LR based on synergistic signal amplification strategy with graphene, DNase I enzyme and Au nanoparticles. Electrochimica Acta, 2019, 293, 220-229.	2.6	23
28	Electrode modified with toluidine blue-doped silica nanoparticles, and its use for enhanced amperometric sensing of hemoglobin. Analytical and Bioanalytical Chemistry, 2008, 391, 1951-1959.	1.9	19
29	A novel self-powered aptasensor for environmental pollutants detection based on simple and efficient enzymatic biofuel cell. Sensors and Actuators B: Chemical, 2020, 305, 127468.	4.0	14
30	In situ monitoring of the selective adsorption mechanism of small environmental pollutant molecules on aptasensor interface by attenuated total reflection surface enhanced infrared absorption spectroscopy (ATRâ€“SEIRAS). Journal of Hazardous Materials, 2021, 403, 123953.	6.5	14
31	Construction of a carbon nanotube/diamond hybrid functionalized electrode surface. Journal of Solid State Electrochemistry, 2010, 14, 221-224.	1.2	13
32	Carboxyphenyl Covalent Immobilization of Heme Proteins and its Favorable Biocompatible Electrochemical and Electrocatalytic Characteristics. Electroanalysis, 2008, 20, 900-906.	1.5	11
33	Direct Electrochemistry of Hemoglobin on Vertically Aligned Carbon Hybrid TiO₂ Nanotubes and Its Highly Sensitive Biosensor Performance. Chinese Journal of Chemistry, 2013, 31, 215-220.	2.6	10
34	Visible-light-driven molecularly imprinted self-powered sensor for atrazine with high sensitivity and selectivity by separating photoanode from recognition element. Sensors and Actuators B: Chemical, 2022, 360, 131670.	4.0	10
35	Rapid and sensitive amperometric determination of hydrogen peroxide with a biosensor based on a carboxyphenyl functionalised boron-doped diamond electrode. International Journal of Environmental Analytical Chemistry, 2012, 92, 534-547.	1.8	9
36	Construction of a Reduced Graphene Oxide/TiO₂ Nanotube Structure by the Click Reaction for Photoanodes. ACS Applied Nano Materials, 2021, 4, 13543-13551.	2.4	4

#	Article	IF	Citations
37	Enhanced electron transfer by bovine serum albumin covalently attached to glassy carbon electrode and its application to determination of hydroquinone. International Journal of Environmental Analytical Chemistry, 2008, 88, 571-582.	1.8	1