

# Xiao-Mei Chen

## List of Publications by Year in descending order

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76  
papers

4,649  
citations

94433

37  
h-index

98798

67  
g-index

77  
all docs

77  
docs citations

77  
times ranked

6486  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of "Clean" and Well-Dispersive Pd Nanoparticles with Excellent Electrocatalytic Property on Graphene Oxide. <i>Journal of the American Chemical Society</i> , 2011, 133, 3693-3695.	13.7	857
2	Advances in enzyme-free electrochemical sensors for hydrogen peroxide, glucose, and uric acid. <i>Mikrochimica Acta</i> , 2014, 181, 689-705.	5.0	314
3	AuPd bimetallic nanoparticles decorated on graphene nanosheets: their green synthesis, growth mechanism and high catalytic ability in 4-nitrophenol reduction. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5668-5674.	10.3	184
4	Non-enzymatic electrochemical glucose sensor based on platinum nanoflowers supported on graphene oxide. <i>Talanta</i> , 2013, 105, 379-385.	5.5	169
5	Nonenzymatic amperometric sensing of glucose by using palladium nanoparticles supported on functional carbon nanotubes. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1803-1808.	10.1	151
6	Graphene and graphene-based nanomaterials: the promising materials for bright future of electroanalytical chemistry. <i>Analyst</i> , The, 2011, 136, 4631.	3.5	140
7	An electrochemical ascorbic acid sensor based on palladium nanoparticles supported on graphene oxide. <i>Analytica Chimica Acta</i> , 2012, 745, 33-37.	5.4	131
8	Green synthesis of graphene-PtPd alloy nanoparticles with high electrocatalytic performance for ethanol oxidation. <i>Journal of Materials Chemistry A</i> , 2014, 2, 315-320.	10.3	128
9	Recent advances in electrochemiluminescent enzyme biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 665-676.	11.4	121
10	Ultrafine palladium nanoparticles grown on graphene nanosheets for enhanced electrochemical sensing of hydrogen peroxide. <i>Electrochimica Acta</i> , 2013, 97, 398-403.	5.2	104
11	PtPd nanodendrites supported on graphene nanosheets: A peroxidase-like catalyst for colorimetric detection of H <sub>2</sub> O <sub>2</sub> . <i>Sensors and Actuators B: Chemical</i> , 2014, 201, 286-292.	7.8	99
12	A sensitive bisphenol A voltammetric sensor relying on AuPd nanoparticles/graphene composites modified glassy carbon electrode. <i>Talanta</i> , 2017, 166, 126-132.	5.5	86
13	Au nanoparticles on citrate-functionalized graphene nanosheets with a high peroxidase-like performance. <i>Dalton Transactions</i> , 2014, 43, 7449-7454.	3.3	83
14	Synthesis of bimetallic PtPd nanocubes on graphene with N,N-dimethylformamide and their direct use for methanol electrocatalytic oxidation. <i>Carbon</i> , 2014, 66, 387-394.	10.3	78
15	Rapid determination of malachite green in water and fish using a fluorescent probe based on CdTe quantum dots coated with molecularly imprinted polymer. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 69-75.	7.8	77
16	Detection of trace tetracycline in fish via synchronous fluorescence quenching with carbon quantum dots coated with molecularly imprinted silica. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 190, 450-456.	3.9	76
17	Platinum nanoflowers supported on graphene oxide nanosheets: their green synthesis, growth mechanism, and advanced electrocatalytic properties for methanol oxidation. <i>Journal of Materials Chemistry</i> , 2012, 22, 11284.	6.7	75
18	A novel electrochemiluminescence tetracyclines sensor based on a Ru(bpy) <sub>3</sub> <sup>2+</sup> -doped silica nanoparticles/Nafion film modified electrode. <i>Talanta</i> , 2014, 129, 26-31.	5.5	73

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19	Rapid detection of malachite green in fish based on CdTe quantum dots coated with molecularly imprinted silica. <i>Food Chemistry</i> , 2017, 229, 847-853.	8.2	73
20	Carbon dots-based fluorescent probe for trace Hg <sup>2+</sup> detection in water sample. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 965-971.	7.8	68
21	A novel non-enzymatic ECL sensor for glucose using palladium nanoparticles supported on functional carbon nanotubes. <i>Biosensors and Bioelectronics</i> , 2009, 24, 3475-3480.	10.1	66
22	Palladium nanoparticles deposit on multi-walled carbon nanotubes and their catalytic applications for electrooxidation of ethanol and glucose. <i>Electrochimica Acta</i> , 2013, 112, 756-762.	5.2	65
23	A facile synthesis of palladium nanoparticles supported on functional carbon nanotubes and its novel catalysis for ethanol electrooxidation. <i>Analytica Chimica Acta</i> , 2009, 650, 54-58.	5.4	60
24	Functionalized multiwall carbon nanotubes combined with bis(2,2'-bipyridine)-5-amino-1,10-phenanthroline ruthenium(II) as an electrochemiluminescence sensor. <i>Sensors and Actuators B: Chemical</i> , 2008, 129, 758-763.	7.8	56
25	Fabrication of a Colorimetric Electrochemiluminescence Sensor. <i>Analytical Chemistry</i> , 2009, 81, 830-833.	6.5	56
26	Electrochemical synthesis of phosphorus and sulfur co-doped graphene quantum dots as efficient electrochemiluminescent immunomarkers for monitoring okadaic acid. <i>Sensors and Actuators B: Chemical</i> , 2020, 304, 127383.	7.8	56
27	Nonenzymatic sensing of glucose at neutral pH values using a glassy carbon electrode modified with graphene nanosheets and Pt-Pd bimetallic nanocubes. <i>Mikrochimica Acta</i> , 2014, 181, 783-789.	5.0	55
28	A fluorescent probe based on N-doped carbon dots for highly sensitive detection of Hg <sup>2+</sup> in aqueous solutions. <i>Analytical Methods</i> , 2016, 8, 2297-2304.	2.7	54
29	Green synthesis of Pt-on-Pd bimetallic nanodendrites on graphene via in situ reduction, and their enhanced electrocatalytic activity for methanol oxidation. <i>Electrochimica Acta</i> , 2014, 127, 377-383.	5.2	52
30	Phosphorus and chlorine co-doped carbon dots with strong photoluminescence as a fluorescent probe for ferric ions. <i>Mikrochimica Acta</i> , 2019, 186, 32.	5.0	52
31	Electrogenerated chemiluminescence ethanol biosensor based on alcohol dehydrogenase functionalized Ru(bpy) <sub>3</sub> <sup>2+</sup> doped silica nanoparticles. <i>Biosensors and Bioelectronics</i> , 2009, 25, 263-267.	10.1	42
32	Molecularly imprinted polymers for extraction of malachite green from fish samples prior to its determination by HPLC. <i>Mikrochimica Acta</i> , 2015, 182, 1791-1796.	5.0	42
33	Biomimetic ELISA detection of malachite green based on molecularly imprinted polymer film. <i>Food Chemistry</i> , 2017, 229, 403-408.	8.2	42
34	Sulfur and phosphorus co-doped graphene quantum dots for fluorescent monitoring of nitrite in pickles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 221, 117211.	3.9	42
35	Chemiluminescence of tryptophan and histidine in Ru(bpy) <sub>3</sub> <sup>2+</sup> -KMnO <sub>4</sub> aqueous solution. <i>Talanta</i> , 2008, 75, 544-550.	5.5	41
36	Biomimetic ELISA detection of malachite green based on magnetic molecularly imprinted polymers. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016, 1035, 25-30.	2.3	39

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37	Paper-supported near-infrared-light-triggered photoelectrochemical platform for monitoring Escherichia coli O157:H7 based on silver nanoparticles-sensitized-upconversion nanophosphors. Biosensors and Bioelectronics, 2022, 203, 114022.	10.1	39
38	Electrochemiluminescence detection of methamphetamine based on a Ru(bpy) <sub>3</sub> <sup>2+</sup> -doped silica nanoparticles/Nafion composite film modified electrode. Luminescence, 2010, 25, 367-372.	2.9	38
39	Non-enzymatic oxalic acid sensor using platinum nanoparticles modified on graphene nanosheets. Nanoscale, 2013, 5, 5779.	5.6	38
40	A highly selective melamine sensor relying on intensified electrochemiluminescence of the silica nanoparticles doped with [Ru(bpy) <sub>3</sub> ] <sup>2+</sup> /molecularly imprinted polymer modified electrode. Sensors and Actuators B: Chemical, 2016, 236, 614-620.	7.8	34
41	Competitive near-infrared PEC immunosorbent assay for monitoring okadaic acid based on a disposable flower-like WO <sub>3</sub> -Modified screen-printed electrode. Biosensors and Bioelectronics, 2021, 185, 113278.	10.1	33
42	Detection of malachite green in fish based on magnetic fluorescent probe of CdTe QDs/nano-Fe <sub>3</sub> O <sub>4</sub> @MIPs. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 196, 117-122.	3.9	32
43	Tris(2,2'-bipyridyl)ruthenium(II) electrochemiluminescence sensor based on carbon nanotube/organically modified silicate films. Analytica Chimica Acta, 2007, 594, 169-174.	5.4	31
44	Electrochemiluminescence detection of dichlorvos pesticide in luminol-CTAB medium. Talanta, 2008, 76, 1083-1087.	5.5	30
45	Determination of leucomalachite green in fish using a novel MIP-coated QDs probe based on synchronous fluorescence quenching effect. Sensors and Actuators B: Chemical, 2017, 252, 561-567.	7.8	30
46	Facile synthesis of clean Pt nanoparticles supported on reduced graphene oxide composites: Their growth mechanism and tuning of their methanol electro-catalytic oxidation property. Electrochimica Acta, 2013, 111, 779-783.	5.2	28
47	A novel electrochemiluminescence glucose biosensor based on platinum nanoflowers/graphene oxide/glucose oxidase modified glassy carbon electrode. Journal of Solid State Electrochemistry, 2014, 18, 2375-2382.	2.5	28
48	A novel electrochemiluminescence sensor based on bis(2,2'-bipyridine)-5-amino-1,10-phenanthroline ruthenium(II) covalently combined with graphite oxide. Biosensors and Bioelectronics, 2010, 26, 872-876.	10.1	26
49	Self-enhanced electrochemiluminescence of luminol induced by palladium-graphene oxide for ultrasensitive detection of aflatoxin B1 in food samples. Food Chemistry, 2022, 381, 132276.	8.2	26
50	Electrochemiluminescence sensor for melamine based on a Ru(bpy) <sub>3</sub> <sup>2+</sup> -doped silica nanoparticles/carboxylic acid functionalized multi-walled carbon nanotubes/Nafion composite film modified electrode. Talanta, 2016, 146, 844-850.	3.5	23
51	Electrochemiluminescence of Luminol on a Platinum-Nanoparticle-Modified Indium Tin Oxide Electrode in Neutral Aqueous Solution. Journal of Nanoscience and Nanotechnology, 2009, 9, 2413-2420.	0.9	22
52	A novel near-infrared light-responsive photoelectrochemical platform for detecting microcystin-LR in fish based on Ag <sub>2</sub> S cubes and plasmonic Au nanoparticles. Talanta, 2021, 221, 121447.	5.5	22
53	Simultaneous detection of malachite & leucomalachite green based on dual template CdTe@MIP via normal and synchronous fluorescence quenching. Dyes and Pigments, 2018, 155, 171-178.	3.7	21
54	A voltammetric sensor for simultaneous determination of lead, cadmium and zinc on an activated carbon fiber rod. Chinese Chemical Letters, 2018, 29, 111-114.	9.0	21

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55	A direct "touch" approach for gold nanoflowers decoration on graphene/ionic liquid composite modified electrode with good properties for sensing bisphenol A. <i>Talanta</i> , 2019, 191, 400-408.	5.5	21
56	Metal-organic framework-5 as a novel phosphorescent probe for the highly selective and sensitive detection of Pb(II) in mussels. <i>Sensors and Actuators B: Chemical</i> , 2020, 308, 127733.	7.8	21
57	Detection of Malachite Green using a colorimetric aptasensor based on the inhibition of the peroxidase-like activity of gold nanoparticles by cetyltrimethylammonium ions. <i>Mikrochimica Acta</i> , 2019, 186, 322.	5.0	19
58	Lipidome disturbances in preadipocyte differentiation associated with bisphenol A and replacement bisphenol S exposure. <i>Science of the Total Environment</i> , 2021, 753, 141949.	8.0	14
59	Fluorescent Copper Nanoclusters for Highly Sensitive Monitoring of Hypoxanthine in Fish. <i>Journal of Analysis and Testing</i> , 2021, 5, 76-83.	5.1	14
60	The Initial Transformation Mechanism of Gold Seeds on Indium Tin Oxide Surfaces. <i>Crystal Growth and Design</i> , 2008, 8, 863-868.	3.0	13
61	Recent Nanoarchitectures in Metal Nanoparticle-Graphene Nanocomposite Modified Electrodes for Electroanalysis. <i>Analytical Sciences</i> , 2014, 30, 529-538.	1.6	13
62	Improved photoelectrochemical properties of tungsten oxide by modification with plasmonic gold nanoparticles for the non-enzymatic sensing of ethanol. <i>Journal of Colloid and Interface Science</i> , 2019, 537, 528-535.	9.4	13
63	Synthesis of Palladium Nanoparticles on Citrate-functionalized Graphene Oxide with High Catalytic Activity for 4-Nitrophenol Reduction. <i>Chemistry Letters</i> , 2014, 43, 919-921.	1.3	12
64	An electrochemiluminescence sensor based on a Ru(bpy) <sub>3</sub> <sup>2+</sup> -silica-chitosan/nanogold composite film. <i>Talanta</i> , 2012, 94, 356-360.	5.5	11
65	Novel dual-emissive fluorescent immunoassay for synchronous monitoring of okadaic acid and saxitoxin in shellfish. <i>Food Chemistry</i> , 2022, 368, 130856.	8.2	11
66	Influence of Al-doped ZnO and Ga-doped ZnO substrates on third harmonic generation of gold nanoparticles. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015, 71, 91-95.	2.7	9
67	Enhanced thermoelectric properties of bismuth telluride-organic hybrid films via graphene doping. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	9
68	A sensitive solid-state electrochemiluminescence sensor for clenbuterol relying on a PtNPs/RuSiNPs/Nafion composite modified glassy carbon electrode. <i>Journal of Electroanalytical Chemistry</i> , 2016, 781, 310-314.	3.8	8
69	Chitosan as a promising hole-scavenger for photoelectrochemical monitoring of cobalt(II) ions in water. <i>Journal of Electroanalytical Chemistry</i> , 2019, 851, 113470.	3.8	7
70	Aptamer-based fluorometric determination of chloramphenicol by controlling the activity of hemin as a peroxidase mimetic. <i>Analytical Methods</i> , 2020, 12, 2391-2397.	2.7	6
71	Fibrous platinum nanocubes modified indium tin oxide electrodes for effective electrooxidation of alcohols and sensitive detection of hydrazine. <i>Journal of Electroanalytical Chemistry</i> , 2016, 779, 156-160.	3.8	5
72	Crystal Structure Analysis and IgE Epitope Mapping of Allergic Predominant Region in <i>Scylla paramamosain</i> Filamin C, Scy p 9. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 1282-1292.	5.2	5

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73	Functional Graphene-Ionic Liquid Composites for the Fabrication of a Rapid and Facile Bisphenol A Electrochemical Sensor. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 1908-1914.	0.9	3
74	Novel Nanomaterials for the Fabrication of Electrochemiluminescent Sensors. , 2019, , 189-214.		2
75	Revealing the effect of electrochemical switching and energy transfer on the electrochemiluminescence of Mn-doped CsPbCl <sub>3</sub> nanocrystals. <i>Electrochemistry Communications</i> , 2021, 131, 107123.	4.7	2
76	Electrochemical Properties of a Gold Nanoseed Particle-Attached Nickel Electrode. <i>Electroanalysis</i> , 2015, 27, 964-969.	2.9	1