

# Pei Meng Woi

## List of Publications by Year in descending order

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95  
papers

3,037  
citations

126858

33  
h-index

189801

50  
g-index

96  
all docs

96  
docs citations

96  
times ranked

4508  
citing authors

#	ARTICLE	IF	CITATIONS
1	Water Splitting by Visible Light: A Nanophotocathode for Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1574-1577.	7.2	189
2	A simple and sensitive fluorescence based biosensor for the determination of uric acid using H <sub>2</sub> O <sub>2</sub> -sensitive quantum dots/dual enzymes. <i>Biosensors and Bioelectronics</i> , 2015, 67, 129-133.	5.3	150
3	Electrodeposition of copper oxide/polypyrrole/reduced graphene oxide as a nonenzymatic glucose biosensor. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 100-108.	4.0	118
4	A novel non-enzymatic H <sub>2</sub> O <sub>2</sub> sensor based on polypyrrole nanofibers/silver nanoparticles decorated reduced graphene oxide nano composites. <i>Applied Surface Science</i> , 2015, 332, 648-656.	3.1	106
5	Facile preparation of MnO <sub>2</sub> nanotubes/reduced graphene oxide nanocomposite for electrochemical sensing of hydrogen peroxide. <i>Sensors and Actuators B: Chemical</i> , 2014, 201, 526-534.	4.0	93
6	Synthesis and characterization of Co <sub>3</sub> O <sub>4</sub> ultra-nanosheets and Co <sub>3</sub> O <sub>4</sub> ultra-nanosheet-Ni(OH) <sub>2</sub> as non-enzymatic electrochemical sensors for glucose detection. <i>Materials Science and Engineering C</i> , 2016, 59, 500-508.	3.8	78
7	Nanocrystalline cellulose decorated quantum dots based tyrosinase biosensor for phenol determination. <i>Materials Science and Engineering C</i> , 2019, 99, 37-46.	3.8	78
8	Fabrication of reduced graphene oxide-magnetic nanocomposite (rGO-Fe <sub>3</sub> O <sub>4</sub> ) as an electrochemical sensor for trace determination of As(III) in water resources. <i>Journal of Electroanalytical Chemistry</i> , 2017, 796, 33-42.	1.9	74
9	Enhanced visible light photocatalytic activity of copper-doped titanium oxide/zinc oxide heterojunction for methyl orange degradation. <i>Applied Surface Science</i> , 2017, 414, 251-261.	3.1	64
10	Biosensor Based on Tyrosinase Immobilized on Graphene-Decorated Gold Nanoparticle/Chitosan for Phenolic Detection in Aqueous. <i>Sensors</i> , 2017, 17, 1132.	2.1	64
11	Construction of an Electrochemical Sensor Based on Carbon Nanotubes/Gold Nanoparticles for Trace Determination of Amoxicillin in Bovine Milk. <i>Sensors</i> , 2016, 16, 56.	2.1	63
12	Folic acid targeted Mn:ZnS quantum dots for theranostic applications of cancer cell imaging and therapy. <i>International Journal of Nanomedicine</i> , 2016, 11, 413.	3.3	62
13	In vivo tumor targeting and anti-tumor effects of 5-fluororacil loaded, folic acid targeted quantum dot system. <i>Journal of Colloid and Interface Science</i> , 2016, 480, 146-158.	5.0	61
14	Polypyrrole/ZnFe <sub>2</sub> O <sub>4</sub> magnetic nano-composite with core-shell structure for glucose sensing. <i>Applied Surface Science</i> , 2014, 317, 622-629.	3.1	57
15	A promising electrochemical sensor based on Au nanoparticles decorated reduced graphene oxide for selective detection of herbicide diuron in natural waters. <i>Journal of Applied Electrochemistry</i> , 2016, 46, 655-666.	1.5	57
16	Facile one-step electrochemical deposition of copper nanoparticles and reduced graphene oxide as nonenzymatic hydrogen peroxide sensor. <i>Applied Surface Science</i> , 2017, 413, 56-65.	3.1	57
17	A screen printed carbon electrode modified with carbon nanotubes and gold nanoparticles as a sensitive electrochemical sensor for determination of thiamphenicol residue in milk. <i>RSC Advances</i> , 2018, 8, 2714-2722.	1.7	54
18	Hydrogen peroxide sensor: Uniformly decorated silver nanoparticles on polypyrrole for wide detection range. <i>Applied Surface Science</i> , 2015, 357, 1565-1572.	3.1	52

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19	DNA-binding studies of valrubicin as a chemotherapy drug using spectroscopy and electrochemical techniques. <i>Journal of Pharmaceutical Analysis</i> , 2017, 7, 176-180.	2.4	52
20	Electrochemical performance of poly(3, 4-ethylenedioxythiophene)/nanocrystalline cellulose (PEDOT/NCC) film for supercapacitor. <i>Carbohydrate Polymers</i> , 2019, 203, 128-138.	5.1	51
21	Synthesis and Characterization of Polyaniline/Graphene Composite Nanofiber and Its Application as an Electrochemical DNA Biosensor for the Detection of <i>Mycobacterium tuberculosis</i> . <i>Sensors</i> , 2017, 17, 2789.	2.1	50
22	Electrodeposited reduced graphene oxide as a highly efficient and low-cost electrocatalyst for vanadium redox flow batteries. <i>Electrochimica Acta</i> , 2019, 297, 31-39.	2.6	48
23	The utilization of SiNWs/AuNPs-modified indium tin oxide (ITO) in fabrication of electrochemical DNA sensor. <i>Materials Science and Engineering C</i> , 2014, 45, 270-276.	3.8	44
24	A sensitive electrochemical nitrate sensor based on polypyrrole coated palladium nanoclusters. <i>Journal of Electroanalytical Chemistry</i> , 2015, 751, 30-36.	1.9	44
25	Improved visible-light photocatalytic activity of TiO <sub>2</sub> co-doped with copper and iodine. <i>Applied Surface Science</i> , 2018, 439, 999-1009.	3.1	44
26	The selective electrochemical detection of dopamine in the presence of ascorbic acid and uric acid using electro-polymerised- $\beta$ -cyclodextrin incorporated f-MWCNTs/polyaniline modified glassy carbon electrode. <i>Microchemical Journal</i> , 2019, 148, 322-330.	2.3	42
27	Label-free optical spectroscopy for characterizing binding properties of highly sensitive nanocrystalline cellulose-graphene oxide based nanocomposite towards nickel ion. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 212, 25-31.	2.0	41
28	Electrocatalytic Water Oxidation by a Tetranuclear Copper Complex. <i>ChemPlusChem</i> , 2016, 81, 1123-1128.	1.3	40
29	Characterisation of ionic liquids nanoemulsion loaded with piroxicam for drug delivery system. <i>Journal of Molecular Liquids</i> , 2017, 234, 30-39.	2.3	40
30	Molybdenum disulfide nanosheet decorated with silver nanoparticles for selective detection of dopamine. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 176, 80-86.	2.5	38
31	A hydrothermally prepared reduced graphene oxide-supported copper ferrite hybrid for glucose sensing. <i>Ceramics International</i> , 2015, 41, 12710-12716.	2.3	36
32	Voltammetric determination of hydroquinone, catechol, and resorcinol by using a glassy carbon electrode modified with electrochemically reduced graphene oxide-poly(Eriochrome black T) and gold nanoparticles. <i>Mikrochimica Acta</i> , 2019, 186, 261.	2.5	35
33	Reduced Graphene Oxide/TEMPO-Nanocellulose Nanohybrid-Based Electrochemical Biosensor for the Determination of <i>Mycobacterium tuberculosis</i> . <i>Journal of Sensors</i> , 2020, 2020, 1-11.	0.6	35
34	Protonation of [FeFe]-hydrogenase sub-site analogues: revealing mechanism using FTIR stopped-flow techniques. <i>Faraday Discussions</i> , 2011, 148, 359-371.	1.6	33
35	Selective and simultaneous detection of cadmium, lead and copper by tapioca-derived carbon dot <sup>2+</sup> -modified electrode. <i>Environmental Science and Pollution Research</i> , 2020, 27, 13315-13324.	2.7	33
36	Synthesis and characterization of Fe <sub>3</sub> O <sub>4</sub> rose like and spherical/reduced graphene oxide nanosheet composites for lead (II) sensor. <i>Electrochimica Acta</i> , 2015, 169, 126-133.	2.6	32

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37	Development of a PrGO-Modified Electrode for Uric Acid Determination in the Presence of Ascorbic Acid by an Electrochemical Technique. <i>Sensors</i> , 2017, 17, 1539.	2.1	30
38	Surface modifications to boost sensitivities of electrochemical biosensors using gold nanoparticles/silicon nanowires and response surface methodology approach. <i>Journal of Materials Science</i> , 2016, 51, 1083-1097.	1.7	29
39	Core-shell CuFe <sub>2</sub> O <sub>4</sub> /PPy nanocomposite enzyme-free sensor for detection of glucose. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 1223-1233.	1.2	28
40	Synthesis and characterization of Fe <sub>3</sub> O <sub>4</sub> /polyaniline nanotube composite as electrochemical sensor for uric acid detection. <i>Advanced Powder Technology</i> , 2019, 30, 384-392.	2.0	28
41	Investigating the effectiveness of g-C <sub>3</sub> N <sub>4</sub> on Pt/g-C <sub>3</sub> N <sub>4</sub> /polythiophene nanocomposites performance as an electrochemical sensor for Hg <sup>2+</sup> detection. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104204.	3.3	28
42	An electrochemical sensor based on Pt/g-C <sub>3</sub> N <sub>4</sub> /polyaniline nanocomposite for detection of Hg <sup>2+</sup> . <i>Advanced Powder Technology</i> , 2020, 31, 3372-3380.	2.0	28
43	Sensitive detection of multiple pathogens using a single DNA probe. <i>Biosensors and Bioelectronics</i> , 2016, 86, 398-405.	5.3	27
44	Artificial hydrogenases: assembly of an H-cluster analogue within a functionalised poly(pyrrole) matrix. <i>Chemical Communications</i> , 2010, 46, 8189.	2.2	26
45	Amperometric Biosensor Based on Zirconium Oxide/Polyethylene Glycol/Tyrosinase Composite Film for the Detection of Phenolic Compounds. <i>Biosensors</i> , 2016, 6, 31.	2.3	26
46	X-ray Photoelectron Spectroscopy Analysis of Chitosan-Graphene Oxide-Based Composite Thin Films for Potential Optical Sensing Applications. <i>Polymers</i> , 2021, 13, 478.	2.0	26
47	Label Free Glucose Electrochemical Biosensor Based on Poly(3,4-ethylenedioxy thiophene):Polystyrene Sulfonate/Titanium Carbide/Graphene Quantum Dots. <i>Biosensors</i> , 2021, 11, 267.	2.3	25
48	Immuno Nanosensor for the Ultrasensitive Naked Eye Detection of Tuberculosis. <i>Sensors</i> , 2018, 18, 1932.	2.1	24
49	Surface Enhanced CdSe/ZnS QD/SiNP Electrochemical Immunosensor for the Detection of Mycobacterium Tuberculosis by Combination of CFP10-ESAT6 for Better Diagnostic Specificity. <i>Materials</i> , 2020, 13, 149.	1.3	24
50	Electrochemical Detection of Arsenite Using a Silica Nanoparticles-Modified Screen-Printed Carbon Electrode. <i>Materials</i> , 2020, 13, 3168.	1.3	24
51	Lateral Flow Immunoassay for Naked Eye Detection of <i>Mycobacterium tuberculosis</i> . <i>Journal of Sensors</i> , 2020, 2020, 1-10.	0.6	24
52	A Sensitive Impedimetric Aptasensor Based on Carbon Nanodots Modified Electrode for Detection of 17 $\beta$ -Estradiol. <i>Nanomaterials</i> , 2020, 10, 1346.	1.9	23
53	One-Step Electrodeposition of Polypyrrole-Copper Nano Particles for H <sub>2</sub> O <sub>2</sub> Detection. <i>Journal of the Electrochemical Society</i> , 2016, 163, B8-B14.	1.3	22
54	Structural and Optical Studies of Cadmium Sulfide Quantum Dot-Graphene Oxide-Chitosan Nanocomposite Thin Film as a Novel SPR Spectroscopy Active Layer. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-8.	1.5	22

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55	Electrochemical sensing of glucose by reduced graphene oxide-zinc ferrosinels. Applied Surface Science, 2016, 379, 156-162.	3.1	21
56	Reduced Graphene Oxide/Copper Nanoparticle Composites as Electrochemical Sensor Materials for Nitrate Detection. ACS Applied Nano Materials, 2021, 4, 12737-12744.	2.4	21
57	Synthesis of Polypyrrole Coated Silver Nanostrip Bundles and Their Application for Detection of Hydrogen Peroxide. Journal of the Electrochemical Society, 2014, 161, H487-H492.	1.3	18
58	Reflux method as a novel route for the synthesis of MoVTenbOx catalysts for selective oxidation of propane to acrylic acid. Journal of Molecular Catalysis A, 2011, 342-343, 50-57.	4.8	17
59	Label-Free Dengue Detection Utilizing PNA/DNA Hybridization Based on the Aggregation Process of Unmodified Gold Nanoparticles. Journal of Nanomaterials, 2014, 2014, 1-5.	1.5	17
60	Nickel Nanoparticle-Modified Electrode for the Electrochemical Sensory Detection of Penicillin G in Bovine Milk Samples. Journal of Nanomaterials, 2019, 2019, 1-11.	1.5	17
61	Facile self-assembled Prussian blue-polypyrrole nanocomposites on glassy carbon: Comparative synthesis methods and its electrocatalytic reduction towards H <sub>2</sub> O <sub>2</sub> . Electrochimica Acta, 2017, 246, 841-852.	2.6	16
62	Characterization of structural stability of palm oil esters-based nanocosmeceuticals loaded with tocotrienol. Journal of Nanobiotechnology, 2013, 11, 27.	4.2	14
63	Recent Advances in Electrochemical Water Splitting and Reduction of CO <sub>2</sub> into Green Fuels on 2D Phosphorene-Based Catalyst. Energy Technology, 2021, 9, .	1.8	14
64	A lateral flow immunosensor for direct, sensitive, and highly selective detection of hemoglobin A1c in whole blood. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1015-1016, 157-165.	1.2	13
65	Detection of Quinoline in G. boninense-Infected Plants Using Functionalized Multi-Walled Carbon Nanotubes: A Field Study. Sensors, 2017, 17, 1538.	2.1	13
66	Synthesis, characterization, and sensing applications of polypyrrole coated Fe <sub>3</sub> O <sub>4</sub> nanostrip bundles. Ceramics International, 2014, 40, 9265-9272.	2.3	12
67	Cauliflower-like poly(3,4-ethylenedioxythipohene)/nanocrystalline cellulose/manganese oxide ternary nanocomposite for supercapacitor. Journal of Applied Polymer Science, 2020, 137, 49162.	1.3	12
68	Electrochemical Characterization of Melamine Electropolymerized in Deep Eutectic Solvents for Selective Detection of Dopamine. Electroanalysis, 2021, 12, 238-250.	1.5	12
69	Voltammetric sensing of formaldehyde by using a nanocomposite prepared by reductive deposition of palladium and platinum on polypyrrole-coated nitrogen-doped reduced graphene oxide. Mikrochimica Acta, 2019, 186, 369.	2.5	11
70	A Novel Amperometric Aptamer-Antibody Sandwich Assay for the Detection of Tuberculosis With Diazonium Electrografted Enhanced Modified Electrode. IEEE Sensors Journal, 2021, 21, 22442-22449.	2.4	11
71	Enhance protection of electronic appliances through multivariate modelling and optimization of ceramic core materials in varistor devices. RSC Advances, 2015, 5, 21384-21395.	1.7	10
72	Current Innovations of Metal Hexacyanoferrates-Based Nanocomposites toward Electrochemical Sensing: Materials Selection and Synthesis Methods. Critical Reviews in Analytical Chemistry, 2020, 50, 393-404.	1.8	10

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73	Direct self-assembly of CuHCF-PPy nanocomposites on rGO for amperometric nicotine sensing at high concentration range. <i>Journal of Electroanalytical Chemistry</i> , 2019, 837, 67-75.	1.9	9
74	L-Glutamine-assisted synthesis of ZnO oatmeal-like/silver composites as an electrochemical sensor for Pb <sup>2+</sup> detection. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 517-526.	1.9	9
75	Histological analysis of anti-cancer drug loaded, targeted Mn:ZnS quantum dots in metastatic lesions of 4T1 challenged mice. <i>Journal of Materials Science: Materials in Medicine</i> , 2017, 28, 138.	1.7	8
76	DNA Electrochemical Biosensor Based on Iron Oxide/Nanocellulose Crystalline Composite Modified Screen-Printed Carbon Electrode for Detection of Mycobacterium tuberculosis. <i>Molecules</i> , 2020, 25, 3373.	1.7	8
77	The optimization of effective parameters for electrodeposition of reduced graphene oxide through Taguchi method to evaluate the charge transfer. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 137, 683-690.	2.5	7
78	Electrochemical Behavior and Detection of Diclofenac at a Microporous Si <sub>3</sub> N <sub>4</sub> Membrane Modified Water-1,6-dichlorohexane Interface System. <i>Chemosensors</i> , 2020, 8, 11.	1.8	7
79	New designs of paper based analytical devices (PADs) for completing replication analysis of a sample within a single run by employing smartphone. <i>Talanta</i> , 2022, 236, 122848.	2.9	7
80	Ternary molybdenum disulfide nanosheets-cobalt oxide nanocubes-platinum composite as efficient electrocatalyst for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2020, 345, 136255.	2.6	6
81	Reduced Graphene Oxide/Gold Nanoparticles Modified Screen-Printed Electrode for the Determination of Palmitic Acid. <i>Journal of Sensors</i> , 2021, 2021, 1-14.	0.6	6
82	Self-assembled Prussian blue-polypyrrole nanocomposites for energy storage application. <i>Journal of Applied Electrochemistry</i> , 2019, 49, 631-638.	1.5	5
83	Fluorescence-based immunoassay for the detection of <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> in rice leaf. <i>Analytical Biochemistry</i> , 2020, 610, 113876.	1.1	5
84	G3 Assisted Rational Design of Chemical Sensor Array Using Carbonitrile Neutral Receptors. <i>Sensors</i> , 2013, 13, 13835-13860.	2.1	4
85	Decoration of carbon nanotubes with gold nanoparticles by electroless deposition process using ethylenediamine as a cross linker. <i>Journal of Materials Research</i> , 2016, 31, 2897-2905.	1.2	4
86	Strategies for the preparation of non-amplified and amplified genomic dengue gene samples for electrochemical DNA biosensing applications. <i>RSC Advances</i> , 2021, 12, 1-10.	1.7	3
87	Rational design of carbonitrile-carboxaldehyde cation receptor models: probing the nature of the heteroatom-metal interaction. <i>Journal of Molecular Modeling</i> , 2014, 20, 2428.	0.8	2
88	Does cation break the cyano bond? A critical evaluation of nitrile-cation interaction. <i>Journal of Molecular Modeling</i> , 2014, 20, 2219.	0.8	2
89	Patterned Array of Poly(ethylene glycol) Silane Monolayer for Label-Free Detection of Dengue. <i>Sensors</i> , 2016, 16, 1365.	2.1	2
90	Measurements of thermodynamic parameters for complexation between a tetra-aza macrocycle ligand and some metal cations based on conductometric method. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 77, 362-372.	2.5	2

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91	Synthesis and structural characterization of centrosymmetric multinuclear nickel(II) complexes with neutral tetradentate N6-ligand. <i>Transition Metal Chemistry</i> , 2021, 46, 255-262.	0.7	2
92	Synthesis of polyaniline microtubes/Pt reduced N-graphene oxide in the presence of L-glutamine for the detection of Hg <sup>2+</sup> . <i>Journal of Applied Electrochemistry</i> , 2020, 50, 1269-1280.	1.5	1
93	Computational evaluation of unsaturated carbonitriles as neutral receptor model for beryllium(II) recognition. <i>Journal of Molecular Modeling</i> , 2014, 20, 2533.	0.8	0
94	Voltammetric determination of palmitic acid by electrode modified with reduced graphene oxide. <i>Journal of Food Science and Technology</i> , 2022, 59, 1053-1062.	1.4	0
95	Progress in Electrochemical Sensing of Heavy Metals Based on Amino Acids and Its Composites. <i>Critical Reviews in Analytical Chemistry</i> , 2021, , 1-18.	1.8	0