Wen-Bo Lu

List of Publications by Year in Descending Order

118 papers	7,337 citations	41 h-index	85 g-index
120 ext. papers	8,193 ext. citations	5.3 avg, IF	6.09 L-index

#	Paper	IF	Citations
118	A dual-signal amplification strategy based on pump-free SERS microfluidic chip for rapid and ultrasensitive detection of non-small cell lung cancer-related circulating tumour DNA in mice serum.. *Biosensors and Bioelectronics*, **2022**, 205, 114110	11.8	2
117	A two-dimensional G-CoP/N,P-co-doped carbon nanowire electrode for the simultaneous determination of hydroquinone and catechol in domestic wastewater. *Analytica Chimica Acta*, **2022**, 1210, 339871	6.6	1
116	Investigation of the sublimation mechanism of GeSe and GeS. *Chemical Communications*, **2021**, 57, 11461-11464	5.8	1
115	A three-dimensional CoNi-MOF nanosheet array-based immunosensor for sensitive monitoring of human chorionic gonadotropin with core-shell ZnNi-MOF@Nile Blue nanotags. *Analyst, The*, **2021**, 145, 8097-8103	5	6
114	Cox3O4 Nanocomposite on Cobalt Foam as Efficient Bifunctional Electrocatalysts for Hydrazine-Assisted Hydrogen Production. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 4688-4701	8.3	13
113	Ni2P Nanosheets: A High Catalytic Activity Platform for Electrochemical Detection of Acetaminophen. *Chinese Journal of Chemistry*, **2021**, 39, 1849-1854	4.9	5
112	Au Nanoparticles Anchored on Cobalt Boride Nanowire Arrays for the Electrochemical Determination of Prostate-Specific Antigen. *ACS Applied Nano Materials*, **2021**, 4, 5707-5716	5.6	1
111	A novel surface-enhanced Raman scattering probe based on Au nanoboxes for dynamic monitoring of caspase-3 during cervical cancer cell apoptosis. *Journal of Materials Chemistry B*, **2021**, 9, 381-391	7.3	5
110	A label-free electrochemical aptasensor based on the core-shell Cu-MOF@TpBD hybrid nanoarchitecture for the sensitive detection of PDGF-BB. *Analyst, The*, **2021**, 146, 979-988	5	6
109	Highly sensitive and selective dopamine sensor uses three-dimensional cobalt phosphide nanowire array. *Journal of Materials Science*, **2021**, 56, 6401-6410	4.3	4
108	Ultra-sensitive and high efficiency detection of multiple non-small cell lung cancer-related miRNAs on a single test line in catalytic hairpin assembly-based SERS-LFA strip. *Analytica Chimica Acta*, **2021**, 1178, 338800	6.6	7
107	High-performance non-enzymatic glucose detection: using a conductive Ni-MOF as an electrocatalyst. *Journal of Materials Chemistry B*, **2020**, 8, 5411-5415	7.3	63
106	Energy-Efficient Hydrogen Evolution Reactions via Hydrazine Oxidation over Facile Synthesis of Cobalt Tetraoxide Electrodes. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 7973-7980	8.3	19
105	Metal-dependent photosensitivity of three isostructural 1D CPs based on the 1,1Rbis(3-carboxylatobenzyl)-4,4Rbipyridinium moiety. *Dalton Transactions*, **2020**, 49, 4044-4049	4.3	14
104	Design of a heterometallic Zn/Ca-MOF decorated with alkoxy groups on the pore surface exhibiting high fluorescence sensing performance for Fe3+ and Cr2O72 *CrystEngComm*, **2020**, 22, 4710-4715	3.3	19
103	Sun, UV and X-ray triple photochromic properties of three coordination polymers based on 1,1?-bis(3-carboxylatobenzyl)-4,4?-bipyridinium ligand. *CrystEngComm*, **2020**, 22, 2121-2127	3.3	13
102	Metal-dependent chromic properties of three isostructural 1D coordination polymers based on 1-(2-carboxyethyl)-4,4?-bipyridinium ligand. *Dyes and Pigments*, **2020**, 177, 108266	4.6	8

101	A Sensitive Electrochemical MUC1 Sensing Platform Based on Electroactive Cu-MOFs Decorated by AuPt Nanoparticles. *Journal of the Electrochemical Society*, **2020**, 167, 087502	3.9	6
100	Highly sensitive detection of cytochrome c in the NSCLC serum using a hydrophobic paper based-gold nanourchin substrate. *Biomedical Optics Express*, **2020**, 11, 7062-7078	3.5	6
99	A photoelectrochemical sensor for highly sensitive detection of glucose based on Au□NiO1□ hybrid nanowires. *Sensors and Actuators B: Chemical*, **2020**, 304, 127330	8.5	10
98	Photochromism and hydrochromism of three complexes based on a new viologen 1-(4-carboxybutyl)-4,4?-bipyridinium ligand. *Inorganica Chimica Acta*, **2020**, 512, 119921	2.7	2
97	A comparative study of electrocatalytic oxidation of glucose on conductive Ni-MOF nanosheet arrays with different ligands. *New Journal of Chemistry*, **2020**, 44, 17849-17853	3.6	10
96	Electrochemical non-enzymatic glucose sensors: recent progress and perspectives. *Chemical Communications*, **2020**, 56, 14553-14569	5.8	79
95	Glucose-sensing abilities of mixed-metal (Ni Co) Prussian blue analogs hollow nanocubes. *Journal of Electroanalytical Chemistry*, **2020**, 874, 114507	4.1	16
94	The simultaneous detection of the squamous cell carcinoma antigen and cancer antigen 125 in the cervical cancer serum using nano-Ag polydopamine nanospheres in an SERS-based lateral flow immunoassay.. *RSC Advances*, **2020**, 10, 29156-29170	3.7	4
93	Determination of berberine in Rhizoma coptidis using a □-cyclodextrin-sensitized fluorescence method.. *RSC Advances*, **2020**, 10, 40136-40141	3.7	1
92	A novel method to construct a 3D FeWO microsphere-array electrode as a non-enzymatic glucose sensor. *Nanotechnology*, **2019**, 30, 165501	3.4	15
91	Ni□Fe hybrid nanocubes: an efficient electrocatalyst for non-enzymatic glucose sensing with a wide detection range. *New Journal of Chemistry*, **2019**, 43, 11135-11140	3.6	9
90	Ni-Fe PBA hollow nanocubes as efficient electrode materials for highly sensitive detection of guanine and hydrogen peroxide in human whole saliva. *Biosensors and Bioelectronics*, **2019**, 141, 111445	11.8	29
89	Mn3O4 nanoparticles@reduced graphene oxide composite: An efficient electrocatalyst for artificial N2 fixation to NH3 at ambient conditions. *Nano Research*, **2019**, 12, 1093-1098	10	66
88	Effect of counter cations on the photochromic behaviors of three Zn□viologen complexes. *New Journal of Chemistry*, **2019**, 43, 12678-12683	3.6	3
87	Copper(II) 1,4-naphthalenedicarboxylate on copper foam nanowire arrays for electrochemical immunosensing of the prostate specific antigen. *Mikrochimica Acta*, **2019**, 186, 758	5.8	5
86	Ultrathin nickel-metal-organic framework nanobelt based electrochemical sensor for the determination of urea in human body fluids.. *RSC Advances*, **2019**, 9, 29474-29481	3.7	23
85	Photochromic properties of three 2D MOFs based on 1-carboxyethyl-4,4Rbipyridinine.. *RSC Advances*, **2019**, 9, 33155-33162	3.7	8
84	High-performance electrochemical glucose sensing enabled by Cu(TCNQ) nanorod array. *Nanotechnology*, **2018**, 29, 135502	3.4	2

83	Ni-MOF nanosheet arrays: efficient non-noble-metal electrocatalysts for non-enzymatic monosaccharide sensing. *New Journal of Chemistry*, **2018**, 42, 3180-3183	3.6	32
82	Surface plasmon aided high sensitive non-enzymatic glucose sensor using Au/NiAu multilayered nanowire arrays. *Biosensors and Bioelectronics*, **2018**, 111, 41-46	11.8	43
81	Mn O Nanocube: An Efficient Electrocatalyst Toward Artificial N Fixation to NH. *Small*, **2018**, 14, e1803111	11	100
80	Energy-Saving Electrolytic Hydrogen Generation: Ni P Nanoarray as a High-Performance Non-Noble-Metal Electrocatalyst. *Angewandte Chemie - International Edition*, **2017**, 56, 842-846	16.4	428
79	Energy-Saving Electrolytic Hydrogen Generation: Ni2P Nanoarray as a High-Performance Non-Noble-Metal Electrocatalyst. *Angewandte Chemie*, **2017**, 129, 860-864	3.6	116
78	Multiplexing determination of cancer-associated biomarkers by surface-enhanced Raman scattering using ordered gold nanohoneycomb arrays. *Bioanalysis*, **2017**, 9, 1561-1572	2.1	12
77	Two Types of Immunoassay Based on Nile Blue Labeling Polydopamine Nanospheres. *Nano*, **2017**, 12, 1750092	1.1	2
76	In Situ Derived Co?B Nanoarray: A High-Efficiency and Durable 3D Bifunctional Electrocatalyst for Overall Alkaline Water Splitting. *Small*, **2017**, 13, 1700805	11	257
75	Fe-Doped CoP Nanoarray: A Monolithic Multifunctional Catalyst for Highly Efficient Hydrogen Generation. *Advanced Materials*, **2017**, 29, 1602441	24	690
74	Highly sensitive detection of hesperidin using AuNPs/rGO modified glassy carbon electrode. *Analyst, The*, **2017**, 143, 297-303	5	15
73	Self-supported spinel FeCoO nanowire array: an efficient non-noble-metal catalyst for the hydrolysis of NaBH toward on-demand hydrogen generation. *Nanotechnology*, **2016**, 27, 46LT03	3.4	13
72	Microwave-assisted one-pot synthesis of Ag NPs/C and its application in H2O2 and glucose detection. *Chemical Research in Chinese Universities*, **2016**, 32, 433-436	2.2	3
71	Process characterization of epithelial–mesenchymal transition in alveolar epithelial type II cells using surface-enhanced Raman scattering spectroscopy. *RSC Advances*, **2016**, 6, 14321-14328	3.7	6
70	Ternary FeCoP Nanowire Array as a Robust Hydrogen Evolution Reaction Electrocatalyst with Pt-like Activity: Experimental and Theoretical Insight. *Nano Letters*, **2016**, 16, 6617-6621	11.5	531
69	Cobalt phosphide nanowall array as an efficient 3D catalyst electrode for methanol electro-oxidation. *Nanotechnology*, **2016**, 27, 44LT02	3.4	12
68	Three-Dimensional Ni2P Nanoarray: An Efficient Catalyst Electrode for Sensitive and Selective Nonenzymatic Glucose Sensing with High Specificity. *Analytical Chemistry*, **2016**, 88, 7885-9	7.8	172
67	SERS tags-based novel monodispersed hollow gold nanospheres for highly sensitive immunoassay of CEA. *Journal of Materials Science*, **2015**, 50, 3329-3336	4.3	23
66	Au nanoparticle decorated resin microspheres: synthesis and application in electrochemical cytosensors for sensitive and selective detection of lung cancer A549 cells. *RSC Advances*, **2015**, 5, 24615-24624	3.7	7

65	A SERS protocol as a potential tool to access 6-mercaptopurine release accelerated by glutathione-S-transferase. *Analyst, The*, **2015**, 140, 7578-85	5	6
64	Synthesis and Characterization of Silver Nanoparticle Modified 3-Aminophenol Resin Microspheres with Application for Determination of Carcinoembryonic Antigens by Surface-Enhanced Raman Scattering. *Analytical Letters*, **2015**, 48, 2245-2257	2.2	1
63	In-situ synthesis of silver nanoparticles on resin microspheres composed of poly(m-aminophenol), and their application in an enzymatic glucose biosensor. *Mikrochimica Acta*, **2015**, 182, 479-486	5.8	8
62	Multiplexing determination of lung cancer biomarkers using electrochemical and surface-enhanced Raman spectroscopic techniques. *New Journal of Chemistry*, **2015**, 39, 5420-5430	3.6	14
61	An electrochemical immunosensor for simultaneous multiplexed detection of two lung cancer biomarkers using Au nanoparticles coated resin microspheres composed of L-tryptophan and caffeic acid. *Ionics*, **2015**, 21, 1141-1152	2.7	23
60	Biomolecule-based formaldehyde resin microspheres loaded with Au nanoparticles: a novel immunoassay for detection of tumor markers in human serum. *Biosensors and Bioelectronics*, **2014**, 53, 346-54	11.8	32
59	Large-scale synthesis of ultrathin Au-Pt nanowires assembled on thionine/graphene with high conductivity and sensitivity for electrochemical immunosensor. *Electrochimica Acta*, **2014**, 130, 335-343	6.7	46
58	A novel label-free amperometric immunosensor for carcinoembryonic antigen based on Ag nanoparticle decorated infinite coordination polymer fibres. *Biosensors and Bioelectronics*, **2014**, 57, 219-25	11.8	58
57	Surface-enhanced Raman spectroscopic detection and differentiation of lung cancer cell lines (A549, H1229) and normal cell line (AT II) based on gold nanostar substrates. *RSC Advances*, **2014**, 4, 64225-64234	3.7	16
56	Carbon nanoparticles-induced formation of polyaniline nanofibers and their subsequent decoration with Ag nanoparticles for nonenzymatic H2O2 detection. *Russian Journal of Electrochemistry*, **2014**, 50, 95-99	1.2	5
55	Green synthesis of carbon nanodots as an effective fluorescent probe for sensitive and selective detection of mercury(II) ions. *Journal of Nanoparticle Research*, **2013**, 15, 1	2.3	62
54	Microwave-assisted rapid green synthesis of photoluminescent carbon nanodots from flour and their applications for sensitive and selective detection of mercury(II) ions. *Sensors and Actuators B: Chemical*, **2013**, 184, 156-162	8.5	184
53	7,7,8,8-tetracyanoquinodimethane microsheets for hydrogen peroxide reduction. *Russian Journal of Electrochemistry*, **2013**, 49, 1097-1100	1.2	
52	Preparation of graphene platelet-Ru(phen) 2+3 assemblies and their application in electrochemiluminescence detection. *Russian Journal of Electrochemistry*, **2013**, 49, 1092-1096	1.2	3
51	Bimetallic gold-silver nanoplate array as a highly active SERS substrate for detection of streptavidin/biotin assemblies. *Analytica Chimica Acta*, **2013**, 805, 95-100	6.6	29
50	Green, low-cost synthesis of photoluminescent carbon dots by hydrothermal treatment of willow bark and their application as an effective photocatalyst for fabricating Au nanoparticles□reduced graphene oxide nanocomposites for glucose detection. *Catalysis Science and Technology*, **2013**, 3, 1027	5.5	150
49	One-Step Hydrothermal Synthesis of Ag Nanoparticle Decorated Submicrometer-Scale Spherical AgBr Colloids: A Highly Efficient Visible Light Plasmonic Photocatalyst for Degradation of Organic Dyes. *Particle and Particle Systems Characterization*, **2013**, 30, 67-71	3.1	23
48	Facile synthesis of novel Ni(II)-based metal-organic coordination polymer nanoparticle/reduced graphene oxide nanocomposites and their application for highly sensitive and selective nonenzymatic glucose sensing. *Analyst, The*, **2013**, 138, 429-33	5	64

47	Ni foam: a novel three-dimensional porous sensing platform for sensitive and selective nonenzymatic glucose detection. *Analyst, The*, **2013**, 138, 417-20	5	134
46	A novel strategy to synthesize Au nanoplates and their application for enzymeless H2O2 detection. *Electrochimica Acta*, **2012**, 60, 13-16	6.7	45
45	Submicrometre-scale polyaniline colloidal spheres: photopolymerization preparation using fluorescent carbon nitride dots as a photocatalyst. *Catalysis Science and Technology*, **2012**, 2, 711	5.5	32
44	Synthesis of Ag nanoparticle-decorated 2,4,6-tris(2-pyridyl)-1,3,5-triazine nanobelts and their application for H2O2 and glucose detection. *Analyst, The*, **2012**, 137, 939-43	5	37
43	Novel application of CoFe layered double hydroxide nanoplates for colorimetric detection of H(2)O(2) and glucose. *Analyst, The*, **2012**, 137, 1325-8	5	91
42	Ag nanoparticles decorated polyaniline nanofibers: synthesis, characterization, and applications toward catalytic reduction of 4-nitrophenol and electrochemical detection of H2O2 and glucose. *Catalysis Science and Technology*, **2012**, 2, 800	5.5	153
41	One-pot green synthesis of Ag nanoparticles-graphene nanocomposites and their applications in SERS, H2O2, and glucose sensing. *RSC Advances*, **2012**, 2, 538-545	3.7	250
40	Synthesis of a MnO2 Nanosheet/Graphene Flake Composite and Its Application as a Supercapacitor having High Rate Capability. *ChemPlusChem*, **2012**, 77, 872-876	2.8	16
39	Electrodeposition-based controllabe fabrication of novel Pd nanotextured microelectrodes. *Russian Journal of Electrochemistry*, **2012**, 48, 1135-1139	1.2	
38	One-step synthesis of Ag nanoparticles-decorated reduced graphene oxide and their application for H2O2 detection. *Electrochimica Acta*, **2012**, 79, 46-51	6.7	77
37	One-pot synthesis of Ag nanoparticles/reduced graphene oxide nanocomposites and their application for nonenzymatic H2O2 detection. *Electrochimica Acta*, **2012**, 83, 283-287	6.7	68
36	High-yield, large-scale production of few-layer graphene flakes within seconds: using chlorosulfonic acid and H2O2 as exfoliating agents. *Journal of Materials Chemistry*, **2012**, 22, 8775		79
35	Nanotextured au microelectrodes: Electrodeposition-based fabrication and their cyclic voltammograms study. *Russian Journal of Electrochemistry*, **2012**, 48, 89-92	1.2	
34	Green photocatalytic synthesis of Ag nanoparticle-decorated TiO2 nanowires for nonenzymatic amperometric H2O2 detection. *Electrochimica Acta*, **2012**, 74, 275-279	6.7	42
33	Economical, green synthesis of fluorescent carbon nanoparticles and their use as probes for sensitive and selective detection of mercury(II) ions. *Analytical Chemistry*, **2012**, 84, 5351-7	7.8	842
32	Ternary Nanocomposites of Porphyrin, Angular Au Nanoparticles and Reduced Graphene Oxide: Photocatalytic Synthesis and Enhanced Photocurrent Generation. *ChemCatChem*, **2012**, 4, 1079-1083	5.2	25
31	Synthesis and study of plasmon-induced carrier behavior at Ag/TiO2 nanowires. *Chemistry - A European Journal*, **2012**, 18, 8508-14	4.8	50
30	Novel synthesis of Au nanoparticles using fluorescent carbon nitride dots as photocatalyst. *Gold Bulletin*, **2012**, 45, 61-67	1.6	22

29	2,4,6-Tris (2-pyridyl)-1,3,5-triazine nanobelts as an effective fluorescent sensing platform for DNA detection. *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 2089-93	1.3	2
28	Single-stranded DNA-based Immobilization of Ag Nanoparticles for Enzymeless H2O2 Detection. *Current Nanoscience*, **2012**, 8, 292-298	1.4	1
27	Supramolecular Microfibrils of O-Phenylenediamine Dimers: Oxidation-induced Formation of Au Nanoparticle-decorated Nanoplates for H2O2 Detection. *Current Nanoscience*, **2012**, 8, 221-225	1.4	3
26	Microwave-assisted, environmentally friendly, one-pot preparation of Pd nanoparticles/graphene nanocomposites and their application in electrocatalytic oxidation of methanol. *Catalysis Science and Technology*, **2011**, 1, 1636	5.5	53
25	Preparation of Ag nanoparticle-decorated poly(m-phenylenediamine) microparticles and their application for hydrogen peroxide detection. *Analyst, The*, **2011**, 136, 1806-9	5	81
24	Ag@poly(m-phenylenediamine)-Ag core–shell nanoparticles: one-step preparation, characterization, and their application for H2O2 detection. *Catalysis Science and Technology*, **2011**, 1, 1393	5.5	50
23	Acid-driven, microwave-assisted production of photoluminescent carbon nitride dots from N,N-dimethylformamide. *RSC Advances*, **2011**, 1, 951	3.7	71
22	Polypyrrole colloidal nanospheres as an effective fluorescent sensing platform for DNA detection. *Synthetic Metals*, **2011**, 161, 1766-1770	3.6	10
21	Surface plasmon resonance-induced visible light photocatalytic reduction of graphene oxide: using Ag nanoparticles as a plasmonic photocatalyst. *Nanoscale*, **2011**, 3, 2142-4	7.7	127
20	In situ green synthesis of Au nanostructures on graphene oxide and their application for catalytic reduction of 4-nitrophenol. *Catalysis Science and Technology*, **2011**, 1, 1142	5.5	216
19	Layer-by-layer self-assembly of multilayer films of polyelectrolyte/Ag nanoparticles for enzymeless hydrogen peroxide detection. *Thin Solid Films*, **2011**, 520, 554-557	2.2	23
18	Synthesis of Au nanoparticles decorated graphene oxide nanosheets: noncovalent functionalization by TWEEN 20 in situ reduction of aqueous chloroaurate ions for hydrazine detection and catalytic reduction of 4-nitrophenol. *Journal of Hazardous Materials*, **2011**, 197, 320-6	12.8	157
17	Preparation of Ag nanoparticle-decorated polypyrrole colloids and their application for H2O2 detection. *Electrochemistry Communications*, **2011**, 13, 785-787	5.1	73
16	One-step preparation of Ag nanoparticle-decorated coordination polymer nanobelts and their application for enzymeless H2O2 detection. *Electrochimica Acta*, **2011**, 56, 8371-8374	6.7	39
15	Synthesis of functional SiO2-coated graphene oxide nanosheets decorated with Ag nanoparticles for H2O2 and glucose detection. *Biosensors and Bioelectronics*, **2011**, 26, 4791-7	11.8	205
14	A new preparation of Au nanoplates and their application for glucose sensing. *Biosensors and Bioelectronics*, **2011**, 28, 344-8	11.8	77
13	Method for effective immobilization of Ag nanoparticles/graphene oxide composites on single-stranded DNA modified gold electrode for enzymeless H2O2 detection. *Journal of Materials Science*, **2011**, 46, 5260-5266	4.3	56
12	Polyacetylene nanoparticles-based preparation of polyaniline nanofibers. *Journal of Nanoparticle Research*, **2011**, 13, 471-477	2.3	4

11	Hydrothermal synthesis of ultra-highly concentrated, well-stable Ag nanoparticles and their application for enzymeless hydrogen peroxide detection. *Journal of Nanoparticle Research*, **2011**, 13, 2689-2695	2.3	26
10	Microwave-assisted rapid synthesis of Pt/graphene nanosheet composites and their application for methanol oxidation. *Journal of Nanoparticle Research*, **2011**, 13, 4731-4737	2.3	34
9	CdS quantum dots as a fluorescent sensing platform for nucleic acid detection. *Mikrochimica Acta*, **2011**, 175, 355-359	5.8	29
8	Titanium silicalite-1 zeolite microparticles for enzymeless H2O2 detection. *Analyst, The*, **2011**, 136, 2037-9	5	20
7	Self-assembled graphene platelet-glucose oxidase nanostructures for glucose biosensing. *Biosensors and Bioelectronics*, **2011**, 26, 4491-6	11.8	158
6	Hydrothermal synthesis of well-stable silver nanoparticles and their application for enzymeless hydrogen peroxide detection. *Electrochimica Acta*, **2011**, 56, 2295-2298	6.7	127
5	Novel nanotextured microelectrodes: Electrodeposition-based fabrication and their application to ultrasensitive nucleic acid detection. *Electrochimica Acta*, **2011**, 56, 2832-2836	6.7	5
4	Immobilization of Au nanoparticles on Au electrode for hydrazine detection: Using thiolated single-stranded DNA as a linker. *Thin Solid Films*, **2011**, 519, 6130-6134	2.2	20
3	Coordination polymer nanobelts for nucleic acid detection. *Nanotechnology*, **2011**, 22, 195502	3.4	30
2	Supramolecular microrods can be prepared by mixing aqueous Ru(NH3)6Cl3 and K3Fe(CN)6 solutions at room temperature. *Colloid Journal*, **2010**, 72, 141-144	1.1	1
1	Synthesis and characterization of CuInS2 nanoflowers. *Colloid Journal*, **2010**, 72, 282-285	1.1	7