

# Bih-Show Lou

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	High power impulse magnetron sputtering (HiPIMS) for the fabrication of antimicrobial and transparent TiO <sub>2</sub> thin films. <i>Current Opinion in Chemical Engineering</i> , 2022, 36, 100782.	3.8	9
2	Property evaluation of Ti <sub>x</sub> ZrNbTaFeBy high entropy alloy coatings: Effect of Ti and B contents. <i>Surface and Coatings Technology</i> , 2022, 434, 128180.	2.2	3
3	Two-dimensional copper oxide/zinc oxide nanoflakes with three-dimensional flower-like heterostructure enhanced with electrocatalytic activity toward Animesulide detection. <i>Materials Today Chemistry</i> , 2022, 24, 100768.	1.7	4
4	Phase, mechanical property and corrosion resistance evaluation of W-Nb-Ta-Ti and W-Nb-Ta-Ti-N medium entropy alloy thin films. <i>Surface and Coatings Technology</i> , 2022, 442, 128339.	2.2	9
5	Microstructural, mechanical and optical properties of tungsten oxide coatings fabricated using superimposed HiPIMS-MF systems. <i>Surface and Coatings Technology</i> , 2022, 436, 128314.	2.2	2
6	In-situ construction of ternary metal oxide heterostructures Mn@LaZrO: A novel multi-functional nanocatalyst for detecting environmental hazardous 4-nitroaniline. <i>Chemical Engineering Journal</i> , 2022, 446, 137025.	6.6	9
7	Fabrication of gadolinium zinc oxide anchored with functionalized-SWCNT planted on glassy carbon electrode: Potential detection of psychotropic drug (phenothiazine) in biotic sample. <i>Journal of Electroanalytical Chemistry</i> , 2022, 918, 116521.	1.9	6
8	Ni-Doped ZrO <sub>2</sub> nanoparticles decorated MW-CNT nanocomposite for the highly sensitive electrochemical detection of 5-amino salicylic acid. <i>Analyst</i> , 2021, 146, 664-673.	1.7	20
9	Effects of processing parameters on the adhesion and corrosion resistance of oxide coatings grown by plasma electrolytic oxidation on AZ31 magnesium alloys. <i>Journal of Materials Research and Technology</i> , 2021, 10, 1355-1371.	2.6	21
10	Facile synthesis of hexagonal-shaped zinc doped cobalt oxide: Application for electroanalytical determination of antibacterial drug ofloxacin in urine samples. <i>Journal of Electroanalytical Chemistry</i> , 2021, 885, 115101.	1.9	11
11	3D Flower-like NiCo Layered Double Hydroxides: An Efficient Electrocatalyst for Non-Enzymatic Electrochemical Biosensing of Hydrogen Peroxide in Live Cells and Glucose in Biofluids. <i>ACS Applied Bio Materials</i> , 2021, 4, 3203-3213.	2.3	29
12	Fabrication of TiZrNbTaFeN high-entropy alloys coatings by HiPIMS: Effect of nitrogen flow rate on the microstructural development, mechanical and tribological performance, electrical properties and corrosion characteristics. <i>Journal of Alloys and Compounds</i> , 2021, 873, 159605.	2.8	46
13	Sonochemical Synthesis and Characterization of Rod-Shaped Bi <sub>2</sub> O <sub>3</sub> /ZnO Anchored with f-MWCNT Nanocomposite for the Electrochemical Determination of Ofloxacin. <i>Journal of the Electrochemical Society</i> , 2021, 168, 087506.	1.3	8
14	The influence of different power supply modes on the microstructure, mechanical, and corrosion properties of nc-TiC/a-C:H nanocomposite coatings. <i>Surface and Coatings Technology</i> , 2021, 422, 127512.	2.2	3
15	Effect of target poisoning ratios on the fabrication of titanium oxide coatings using superimposed high power impulse and medium frequency magnetron sputtering. <i>Surface and Coatings Technology</i> , 2021, 421, 127430.	2.2	9
16	Temperature abetted synthesis of novel magnesium stannate nanoparticles assisted for nanomolar level detection of hazardous flavonoid in biological samples. <i>Food Chemistry</i> , 2021, 361, 130162.	4.2	5
17	Impact of yttrium concentration on structural characteristics and pH sensing properties of sol-gel derived Y <sub>2</sub> O <sub>3</sub> based electrolyte-insulator-semiconductor sensor. <i>Materials Science in Semiconductor Processing</i> , 2020, 105, 104741.	1.9	12
18	A simple sonochemical assisted synthesis of NiMoO <sub>4</sub> /chitosan nanocomposite for electrochemical sensing of amlodipine in pharmaceutical and serum samples. <i>Ultrasonics Sonochemistry</i> , 2020, 64, 104827.	3.8	30

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19	Solution processed ZnIn <sub>x</sub> O <sub>y</sub> sensing membranes on flexible PEN for extended-gate field-effect transistor pH sensors. Journal of Alloys and Compounds, 2020, 822, 153630.	2.8	10
20	Microstructural characterization, mechanical property and corrosion behavior of VNbMoTaWAl refractory high entropy alloy coatings: Effect of Al content. Surface and Coatings Technology, 2020, 403, 126351.	2.2	51
21	Helium/Argon-Generated Cold Atmospheric Plasma Facilitates Cutaneous Wound Healing. Frontiers in Bioengineering and Biotechnology, 2020, 8, 683.	2.0	32
22	Corrosion performance of plasma electrolytic oxidation grown oxide coating on pure aluminum: effect of borax concentration. Journal of Materials Research and Technology, 2020, 9, 8766-8779.	2.6	32
23	Ultrasensitive dopamine detection of indium-zinc oxide on PET flexible based extended-gate field-effect transistor. Sensors and Actuators B: Chemical, 2020, 310, 127850.	4.0	37
24	Effects of Processing Parameters on the Corrosion Performance of Plasma Electrolytic Oxidation Grown Oxide on Commercially Pure Aluminum. Metals, 2020, 10, 394.	1.0	18
25	Fabrication of tungsten nitride thin films by superimposed HiPIMS and MF system: Effects of nitrogen flow rate. Surface and Coatings Technology, 2020, 393, 125743.	2.2	17
26	An Ultra-sensitive Electrochemical Sensor for the Detection of Oxidative Stress Biomarker 3-Nitro-L-tyrosine in Human Blood Serum and Saliva Samples Based on Reduced Graphene Oxide Entrapped Zirconium (IV) Oxide. Journal of the Electrochemical Society, 2020, 167, 066517.	1.3	25
27	High-performance YbTi <sub>x</sub> O <sub>y</sub> /PbZr <sub>0.53</sub> Ti <sub>0.47</sub> O <sub>3</sub> stacked gate dielectric for InGaZnO thin-film transistors. Semiconductor Science and Technology, 2020, 35, 105025.	1.0	0
28	Mechanical property evaluation of ZrSiN films deposited by a hybrid superimposed high power impulse-medium frequency sputtering and RF sputtering system. Surface and Coatings Technology, 2019, 376, 59-67.	2.2	10
29	Super Nernstian pH response and enzyme-free detection of glucose using sol-gel derived RuO <sub>x</sub> on PET flexible-based extended-gate field-effect transistor. Sensors and Actuators B: Chemical, 2019, 298, 126837.	4.0	46
30	A sensitive electrochemical determination of chemotherapy agent using graphitic carbon nitride covered vanadium oxide nanocomposite; sonochemical approach. Ultrasonics Sonochemistry, 2019, 58, 104664.	3.8	18
31	Corrosion property and biocompatibility evaluation of Feâ€“Zrâ€“Nb thin film metallic glasses. Thin Solid Films, 2019, 691, 137615.	0.8	10
32	High Temperature Oxidation Behaviors of CrN <sub>x</sub> and Cr-Si-N Thin Films at 1000 Â°C. Coatings, 2019, 9, 540.	1.2	8
33	A core-shell molybdenum nanoparticles entrapped f-MWCNTs hybrid nanostructured material based non-enzymatic biosensor for electrochemical detection of dopamine neurotransmitter in biological samples. Scientific Reports, 2019, 9, 13075.	1.6	62
34	Urea-based morphological engineering of ZnO; for the biosensing enhancement towards dopamine and uric acid in food and biological samples. Materials Chemistry and Physics, 2019, 227, 5-11.	2.0	35
35	Defect and Additional Active Sites on the Basal Plane of Manganese-Doped Molybdenum Diselenide for Effective Enzyme Immobilization: In Vitro and in Vivo Real-Time Analyses of Hydrogen Peroxide Sensing. ACS Applied Materials & Interfaces, 2019, 11, 7862-7871.	4.0	38
36	An Extended-Gate FET-Based pH Sensor With an InZn <sub>x</sub> O <sub>y</sub> Membrane Fabricated on a Flexible Polyimide Substrate at Room Temperature. IEEE Electron Device Letters, 2019, 40, 804-807.	2.2	13

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37	Impact of Sn Content on Structural Properties and Sensing Performance of InSn <sub>x</sub> O <sub>y</sub> Thin Film on Flexible Substrate for EGFET pH Sensors. Journal of the Electrochemical Society, 2019, 166, B407-B413.	1.3	7
38	Influence of Annealing Temperature on Structural Compositions and pH Sensing Properties of Sol-Gel Derived YTi <sub>x</sub> O <sub>y</sub> Electroceramic Sensing Membranes. Journal of the Electrochemical Society, 2019, 166, B187-B192.	1.3	4
39	Parameters Affecting the Antimicrobial Properties of Cold Atmospheric Plasma Jet. Journal of Clinical Medicine, 2019, 8, 1930.	1.0	22
40	A simple architecture of cellulose microfibril/reduced graphene oxide nanocomposite for the electrochemical determination of nitrobenzene in sewage water. Cellulose, 2018, 25, 2381-2391.	2.4	26
41	Mechanical property and corrosion resistance evaluation of AZ31 magnesium alloys by plasma electrolytic oxidation treatment: Effect of MoS <sub>2</sub> particle addition. Surface and Coatings Technology, 2018, 350, 813-822.	2.2	49
42	Fabrication of W-Zr-Si thin film metallic glasses and the influence of post-annealing treatment. Journal of Non-Crystalline Solids, 2018, 482, 170-176.	1.5	5
43	Superimposed high power impulse and middle frequency magnetron sputtering: Role of pulse duration and average power of middle frequency. Surface and Coatings Technology, 2018, 352, 680-689.	2.2	26
44	Superimposition of high power impulse and middle frequency magnetron sputtering for fabrication of CrTiBN multicomponent hard coatings. Surface and Coatings Technology, 2018, 350, 962-970.	2.2	12
45	Comparison of CeTiO <sub>3</sub> and Ce <sub>2</sub> TiO <sub>5</sub> Sensing Films for pH Sensors. IEEE Electron Device Letters, 2018, 39, 885-888.	2.2	1
46	Hybrid high power impulse and radio frequency magnetron sputtering system for TiCrSiN thin film depositions: Plasma characteristics and film properties. Surface and Coatings Technology, 2018, 350, 762-772.	2.2	11
47	Effects of annealing temperature on crystal structure and glucose sensing properties of cuprous oxide. Sensors and Actuators B: Chemical, 2018, 266, 655-663.	4.0	33
48	A novel approach to iron oxide separation from e-waste and bisphenol A detection in thermal paper receipts using recovered nanocomposites. RSC Advances, 2018, 8, 39870-39878.	1.7	12
49	Super Nernstian pH sensitivity of excess cerium in Ce <sub>2-x</sub> Sr <sub>x</sub> (Zr <sub>0.53</sub> Ti <sub>0.47</sub> )O <sub>y</sub> sensing membranes for solid state pH sensors. Sensors and Actuators B: Chemical, 2018, 274, 133-143.	4.0	5
50	Characterization of plasma polymerized organosilicon thin films deposited on 316L stainless steel. Thin Solid Films, 2018, 660, 637-645.	0.8	20
51	High performance sol-gel synthesized Ce <sub>0.9</sub> Sr <sub>0.1</sub> (Zr <sub>0.53</sub> Ti <sub>0.47</sub> )O <sub>4</sub> sensing membrane for a solid-state pH sensor. RSC Advances, 2018, 8, 21210-21213.	1.7	6
52	Synthesis and application of bismuth ferrite nanosheets supported functionalized carbon nanofiber for enhanced electrochemical detection of toxic organic compound in water samples. Journal of Colloid and Interface Science, 2018, 514, 59-69.	5.0	45
53	Impact of Ti Content on Structural and Electrical Characteristics of High- $\kappa$ Yb <sub>2</sub> TiO <sub>5</sub> $\alpha$ -InZnSnO Thin-Film Transistors. IEEE Electron Device Letters, 2017, 38, 341-344.	2.2	3
54	Graphene dispersed cellulose microfibrils composite for efficient immobilization of hemoglobin and selective biosensor for detection of hydrogen peroxide. Sensors and Actuators B: Chemical, 2017, 252, 175-182.	4.0	26

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55	Effect of In and Zn Content on Structural and Electrical Properties of InZnSnO Thin-Film Transistors Using an Yb <sub>2</sub> TiO <sub>5</sub> Gate Dielectric. IEEE Transactions on Electron Devices, 2017, 64, 2233-2238.	1.6	9
56	Influences of target poisoning on the mechanical properties of TiCrBN thin films grown by a superimposed high power impulse and medium-frequency magnetron sputtering. Surface and Coatings Technology, 2017, 332, 86-95.	2.2	20
57	Plasma electrolytic oxidation coatings on AZ31 magnesium alloys with Si <sub>3</sub> N <sub>4</sub> nanoparticle additives. Surface and Coatings Technology, 2017, 332, 358-367.	2.2	64
58	Structural and Sensing Properties of Sol-Gel Synthesized Ce <sub>2</sub> (Zr <sub>1-x</sub> Ti <sub>x</sub> )O <sub>3</sub> Films for pH Sensors. IEEE Transactions on Electron Devices, 2017, 64, 3971-3975.	1.6	87
59	Biocompatibility and mechanical property evaluation of Zr-Ti-Fe based ternary thin film metallic glasses. Surface and Coatings Technology, 2017, 320, 512-519.	2.2	23
60	Effects of silicon contents on the characteristics of Zr-Ti-Si-W thin film metallic glasses. Thin Solid Films, 2016, 618, 28-35.	0.8	16
61	Direct electrochemistry of immobilized hemoglobin and sensing of bromate at a glassy carbon electrode modified with graphene and $\beta$ -cyclodextrin. Mikrochimica Acta, 2016, 183, 1953-1961.	2.5	23
62	Green synthesized gold nanoparticles decorated graphene oxide for sensitive determination of chloramphenicol in milk, powdered milk, honey and eye drops. Journal of Colloid and Interface Science, 2016, 475, 46-56.	5.0	129
63	Microstructure and mechanical properties evaluation of molybdenum disulfide-titania nanocomposite coatings grown by plasma electrolytic oxidation. Surface and Coatings Technology, 2016, 303, 68-77.	2.2	34
64	Flame synthesis of nitrogen doped carbon for the oxygen reduction reaction and non-enzymatic methyl parathion sensor. RSC Advances, 2016, 6, 71507-71516.	1.7	38
65	Ruthenium nanoparticles decorated curl-like porous carbons for high performance supercapacitors. Scientific Reports, 2016, 6, 19949.	1.6	45
66	Phyto mediated biogenic synthesis of gold nanoparticles using Cerasus serrulata and its utility in detecting hydrazine, microbial activity and DFT studies. Journal of Colloid and Interface Science, 2016, 468, 163-175.	5.0	41
67	Preparation of $\beta$ -cyclodextrin entrapped graphite composite for sensitive detection of dopamine. Carbohydrate Polymers, 2016, 135, 267-273.	5.1	52
68	Preparation of highly stable fullerene C <sub>60</sub> decorated graphene oxide nanocomposite and its sensitive electrochemical detection of dopamine in rat brain and pharmaceutical samples. Journal of Colloid and Interface Science, 2016, 462, 375-381.	5.0	65
69	Effects of duty cycle and electrolyte concentration on the microstructure and biocompatibility of plasma electrolytic oxidation treatment on zirconium metal. Thin Solid Films, 2015, 596, 87-93.	0.8	28
70	Potentiostatic Electrochemical Preparation of Bismuth Nanoribbons and its Application in Biologically Poisoning Lead and Cadmium Heavy Metal Ions Detection. Electroanalysis, 2015, 27, 2341-2346.	1.5	8
71	Biomass-derived functional porous carbons as novel electrode material for the practical detection of biomolecules in human serum and snail hemolymph. Scientific Reports, 2015, 5, 10141.	1.6	66
72	A sensitive and selective enzyme-free amperometric glucose biosensor using a composite from multi-walled carbon nanotubes and cobalt phthalocyanine. RSC Advances, 2015, 5, 26762-26768.	1.7	46

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73	Effects of tungsten contents on the microstructure, mechanical and anticorrosion properties of Zrâ€“Wâ€“Ti thin film metallic glasses. <i>Thin Solid Films</i> , 2015, 584, 253-256.	0.8	20
74	Enzymatic glucose biosensor based on bismuth nanoribbons electrochemically deposited on reduced graphene oxide. <i>Mikrochimica Acta</i> , 2015, 182, 2165-2172.	2.5	16
75	A simple hydrothermal synthesis and fabrication of zinc oxideâ€“copper oxide heterostructure for the sensitive determination of nonenzymatic glucose biosensor. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 1299-1306.	4.0	42
76	Green synthesized silver nanoparticles decorated on reduced graphene oxide for enhanced electrochemical sensing of nitrobenzene in waste water samples. <i>RSC Advances</i> , 2015, 5, 31139-31146.	1.7	73
77	Direct electrochemistry of glucose oxidase and sensing of glucose at a glassy carbon electrode modified with a reduced graphene oxide/fullerene-C60 composite. <i>RSC Advances</i> , 2015, 5, 77651-77657.	1.7	50
78	The influence of deposition parameters on the structure and properties of aluminum nitride coatings deposited by high power impulse magnetron sputtering. <i>Thin Solid Films</i> , 2014, 572, 161-168.	0.8	22
79	The fabrication and property evaluation of Zrâ€“Tiâ€“Baâ€“Si thin film metallic glass materials. <i>Surface and Coatings Technology</i> , 2014, 259, 115-122.	2.2	31
80	Simultaneous quantification of trans-resveratrol and its sulfate and glucuronide metabolites in rat tissues by stable isotope-dilution UPLCâ€“MS/MS analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 94, 99-105.	1.4	25
81	Poly(basic red 9) doped functionalized multi-walled carbon nanotubes as composite films for neurotransmitters biosensors. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 118, 133-139.	2.5	22
82	Microstructure, mechanical and anti-corrosion property evaluation of iron-based thin film metallic glasses. <i>Surface and Coatings Technology</i> , 2014, 260, 46-55.	2.2	32
83	Electropolymerized Diphenylamine on Functionalized Multiwalled Carbon Nanotube Composite Film and Its Application to Develop a Multifunctional Biosensor. <i>Electroanalysis</i> , 2014, 26, 399-408.	1.5	10
84	Use of urinary metabolomics to evaluate the effect of hyperuricemia on the kidney. <i>Food and Chemical Toxicology</i> , 2014, 74, 35-44.	1.8	22
85	Detection of real sample DNA at a cadmium sulfide â€“ chitosan/gelatin modified electrode. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 113, 85-91.	2.5	12
86	Effects of Acute Systematic Hypoxia on Human Urinary Metabolites Using LC-MS-Based Metabolomics. <i>High Altitude Medicine and Biology</i> , 2014, 15, 192-202.	0.5	24
87	A simple strategy for the immobilization of catalase on multi-walled carbon nanotube/poly (l-lysine) biocomposite for the detection of H2O2 and iodate. <i>Biosensors and Bioelectronics</i> , 2014, 61, 639-647.	5.3	60
88	Influence of high power impulse magnetron sputtering pulse parameters on the properties of aluminum nitride coatings. <i>Surface and Coatings Technology</i> , 2014, 259, 219-231.	2.2	23
89	Simultaneously Determination of Procaine and Catechol at Functionalized Multi-Walled Carbon Nanotube with Poly-Glutamic Acid Modified Electrode. <i>Journal of Biobased Materials and Bioenergy</i> , 2014, 8, 149-157.	0.1	3
90	Effects of duty cycle and pulse frequency on the fabrication of AlCrN thin films deposited by high power impulse magnetron sputtering. <i>Thin Solid Films</i> , 2013, 549, 281-291.	0.8	38

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91	Applying principles from "Scientific Foundations for Future Physicians" to teaching chemistry in the department of medicine at Chang Gung University. <i>Kaohsiung Journal of Medical Sciences</i> , 2012, 28, S36-40.	0.8	1
92	Vitamin E Suppresses Enhancement of Factor VIII-Dependent Thrombin Generation by Systemic Hypoxia. <i>Stroke</i> , 2009, 40, 656-659.	1.0	29
93	Probing the non-covalent binding interaction of the Na <sup>+</sup> channel inactivation gate peptide in a linker between domain III and IV with 5,5-diphenylhydantoin in electrospray ion trap tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 3795-3802.	0.7	4
94	Interaction of DPH with the Local Anesthetic Receptor Site in D1-S6 of the Na <sup>+</sup> Channel by NMR and Molecular Modeling. , 2006, , 174-175.		0
95	Small nonphosphorylated Grb2-SH2 domain antagonists evaluated by surface plasmon resonance technology. <i>Biopolymers</i> , 2005, 80, 628-635.	1.2	6
96	Enkephalin-based drug design: conformational analysis of O-linked glycopeptides by NMR and molecular modeling. <i>Tetrahedron: Asymmetry</i> , 2000, 11, 9-25.	1.8	23
97	Resonance Raman Studies Indicate a Unique Heme Active Site in Prostaglandin H Synthase. <i>Biochemistry</i> , 2000, 39, 12424-12434.	1.2	31
98	Modifications of the 4,4'-residues and sar studies of biphalin, a highly potent opioid receptor active peptide. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1998, 8, 555-560.	1.0	28
99	Newly discovered stereochemical requirements in the side-chain conformation of $\delta$ opioid agonists for recognizing opioid $\delta$ receptors. <i>Journal of Medicinal Chemistry</i> , 1994, 37, 1746-1757.	2.9	60