Bih-Show Lou

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6843206/publications.pdf

Version: 2024-02-01

		172207	264894
99	2,430	29	42
papers	citations	h-index	g-index

100	100	100	3091
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Green synthesized silver nanoparticles decorated on reduced graphene oxide for enhanced electrochemical sensing of nitrobenzene in waste water samples. RSC Advances, 2015, 5, 31139-31146.	1.7	73
3	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
4	Preparation of highly stable fullerene C60 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
5	Plasma electrolytic oxidation coatings on AZ31 magnesium alloys with Si3N4 nanoparticle additives. Surface and Coatings Technology, 2017, 332, 358-367.	2.2	64
6	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
7	Newly discovered stereochemical requirements in the side-chain conformation of .delta. opioid agonists for recognizing opioid .delta. receptors. Journal of Medicinal Chemistry, 1994, 37, 1746-1757.	2.9	60
8	A simple strategy for the immobilization of catalase on multi-walled carbon nanotube/poly (l-lysine) biocomposite for the detection of H2O2 and iodate. Biosensors and Bioelectronics, 2014, 61, 639-647.	5.3	60
9	Preparation of Î²-cyclodextrin entrapped graphite composite for sensitive detection of dopamine. Carbohydrate Polymers, 2016, 135, 267-273.	5.1	52
10	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
11	Direct electrochemistry of glucose oxidase and sensing of glucose at a glassy carbon electrode modified with a reduced graphene oxide/fullerene-C60 composite. RSC Advances, 2015, 5, 77651-77657.	1.7	50
12	Mechanical property and corrosion resistance evaluation of AZ31 magnesium alloys by plasma electrolytic oxidation treatment: Effect of MoS2 particle addition. Surface and Coatings Technology, 2018, 350, 813-822.	2.2	49
13	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
14	Super Nernstian pH response and enzyme-free detection of glucose using sol-gel derived RuOx on PET flexible-based extended-gate field-effect transistor. Sensors and Actuators B: Chemical, 2019, 298, 126837.	4.0	46
15	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. Journal of Alloys and Compounds, 2021, 873, 159605.	2.8	46
16	Ruthenium nanoparticles decorated curl-like porous carbons for high performance supercapacitors. Scientific Reports, 2016, 6, 19949.	1.6	45
17	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
18	A simple hydrothermal synthesis and fabrication of zinc oxideâ€“copper oxide heterostructure for the sensitive determination of nonenzymatic glucose biosensor. Sensors and Actuators B: Chemical, 2015, 221, 1299-1306.	4.0	42

#	Article	IF	Citations
19	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
20	Effects of duty cycle and pulse frequency on the fabrication of AlCrN thin films deposited by high power impulse magnetron sputtering. Thin Solid Films, 2013, 549, 281-291.	0.8	38
21	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
22	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
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	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
25	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
26	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
27	Microstructure, mechanical and anti-corrosion property evaluation of iron-based thin film metallic glasses. Surface and Coatings Technology, 2014, 260, 46-55.	2.2	32
28	Helium/Argon-Generated Cold Atmospheric Plasma Facilitates Cutaneous Wound Healing. Frontiers in Bioengineering and Biotechnology, 2020, 8, 683.	2.0	32
29	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
30	Resonance Raman Studies Indicate a Unique Heme Active Site in Prostaglandin H Synthase. Biochemistry, 2000, 39, 12424-12434.	1.2	31
31	The fabrication and property evaluation of Zrâ€“Tiâ€“Bâ€“Si thin film metallic glass materials. Surface and Coatings Technology, 2014, 259, 115-122.	2.2	31
32	A simple sonochemical assisted synthesis of NiMoO4/chitosan nanocomposite for electrochemical sensing of amlodipine in pharmaceutical and serum samples. Ultrasonics Sonochemistry, 2020, 64, 104827.	3.8	30
33	Vitamin E Suppresses Enhancement of Factor VIII-Dependent Thrombin Generation by Systemic Hypoxia. Stroke, 2009, 40, 656-659.	1.0	29
34	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. ACS Applied Bio Materials, 2021, 4, 3203-3213.	2.3	29
35	Modifications of the 4,4â€²-residues and sar studies of biphalin, a highly potent opioid receptor active peptide. Bioorganic and Medicinal Chemistry Letters, 1998, 8, 555-560.	1.0	28
36	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

#	Article	IF	Citations
37	Graphene dispersed cellulose microfibers 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
38	A simple architecture of cellulose microfiber/reduced graphene oxide nanocomposite for the electrochemical determination of nitrobenzene in sewage water. Cellulose, 2018, 25, 2381-2391.	2.4	26
39	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
40	Simultaneous quantification of trans-resveratrol and its sulfate and glucuronide metabolites in rat tissues by stable isotope-dilution UPLCâ€“MS/MS analysis. Journal of Pharmaceutical and Biomedical Analysis, 2014, 94, 99-105.	1.4	25
41	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
42	Effects of Acute Systematic Hypoxia on Human Urinary Metabolites Using LC-MS-Based Metabolomics. High Altitude Medicine and Biology, 2014, 15, 192-202.	0.5	24
43	Enkephalin-based drug design: conformational analysis of O-linked glycopeptides by NMR and molecular modeling. Tetrahedron: Asymmetry, 2000, 11, 9-25.	1.8	23
44	Influence of high power impulse magnetron sputtering pulse parameters on the properties of aluminum nitride coatings. Surface and Coatings Technology, 2014, 259, 219-231.	2.2	23
45	Direct electrochemistry of immobilized hemoglobin and sensing of bromate at a glassy carbon electrode modified with graphene and Î²-cyclodextrin. Mikrochimica Acta, 2016, 183, 1953-1961.	2.5	23
46	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
47	The influence of deposition parameters on the structure and properties of aluminum nitride coatings deposited by high power impulse magnetron sputtering. Thin Solid Films, 2014, 572, 161-168.	0.8	22
48	Poly(basic red 9) doped functionalized multi-walled carbon nanotubes as composite films for neurotransmitters biosensors. Colloids and Surfaces B: Biointerfaces, 2014, 118, 133-139.	2.5	22
49	Use of urinary metabolomics to evaluate the effect of hyperuricemia on the kidney. Food and Chemical Toxicology, 2014, 74, 35-44.	1.8	22
50	Parameters Affecting the Antimicrobial Properties of Cold Atmospheric Plasma Jet. Journal of Clinical Medicine, 2019, 8, 1930.	1.0	22
51	Effects of processing parameters on the adhesion and corrosion resistance of oxide coatings grown by plasma electrolytic oxidation on AZ31 magnesium alloys. Journal of Materials Research and Technology, 2021, 10, 1355-1371.	2.6	21
52	Effects of tungsten contents on the microstructure, mechanical and anticorrosion properties of Zrâ€“Wâ€“Ti thin film metallic glasses. Thin Solid Films, 2015, 584, 253-256.	0.8	20
53	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
54	Characterization of plasma polymerized organosilicon thin films deposited on 316L stainless steel. Thin Solid Films, 2018, 660, 637-645.	0.8	20

#	Article	IF	Citations
55	Ni-Doped ZrO₂ nanoparticles decorated MW-CNT nanocomposite for the highly sensitive electrochemical detection of 5-amino salicylic acid. Analyst, The, 2021, 146, 664-673.	1.7	20
56	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
57	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
58	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
59	Enzymatic glucose biosensor based on bismuth nanoribbons electrochemically deposited onÂreduced graphene oxide. Mikrochimica Acta, 2015, 182, 2165-2172.	2.5	16
60	Effects of silicon contents on the characteristics of Zrâ€“Tiâ€“Siâ€“W thin film metallic glasses. Thin Solid Films, 2016, 618, 28-35.	0.8	16
61	An Extended-Gate FET-Based pH Sensor With an InZn_xO_yMembrane Fabricated on a Flexible Polyimide Substrate at Room Temperature. IEEE Electron Device Letters, 2019, 40, 804-807.	2.2	13
62	Detection of real sample DNA at a cadmium sulfide â€“ chitosan/gelatin modified electrode. Colloids and Surfaces B: Biointerfaces, 2014, 113, 85-91.	2.5	12
63	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
64	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
65	Impact of yttrium concentration on structural characteristics and pH sensing properties of sol-gel derived Y2O3 based electrolyte-insulator-semiconductor sensor. Materials Science in Semiconductor Processing, 2020, 105, 104741.	1.9	12
66	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
67	Facile synthesis of hexagonal-shaped zinc doped cobalt oxide: Application for electroanalytical determination of antibacterial drug ofloxacin in urine samples. Journal of Electroanalytical Chemistry, 2021, 885, 115101.	1.9	11
68	Electropolymerized Diphenylamine on Functionalized Multiwalled Carbon Nanotube Composite Film and Its Application to Develop a Multifunctional Biosensor. Electroanalysis, 2014, 26, 399-408.	1.5	10
69	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
70	Corrosion property and biocompatibility evaluation of Feâ€“Zrâ€“Nb thin film metallic glasses. Thin Solid Films, 2019, 691, 137615.	0.8	10
71	Solution processed ZnInxOy sensing membranes on flexible PEN for extended-gate field-effect transistor pH sensors. Journal of Alloys and Compounds, 2020, 822, 153630.	2.8	10
72	Effect of In and Zn Content on Structural and Electrical Properties of InZnSnO Thin-Film Transistors Using an Yb₂TiO₅Gate Dielectric. IEEE Transactions on Electron Devices, 2017, 64, 2233-2238.	1.6	9

#	Article	IF	Citations
73	Effect of target poisoning ratios on the fabrication of titanium oxide coatings using superimposed high power impulse and medium frequency magnetron sputtering. Surface and Coatings Technology, 2021, 421, 127430.	2.2	9
74	High power impulse magnetron sputtering (HiPIMS) for the fabrication of antimicrobial and transparent TiO2 thin films. Current Opinion in Chemical Engineering, 2022, 36, 100782.	3.8	9
75	Phase, mechanical property and corrosion resistance evaluation of W-Nb-Ta-Ti and W-Nb-Ta-Ti-N medium entropy alloy thin films. Surface and Coatings Technology, 2022, 442, 128339.	2.2	9
76	In-situ construction of ternary metal oxide heterostructures Mn@LaZrO: A novel multi-functional nanocatalyst for detecting environmental hazardous 4-nitroaniline. Chemical Engineering Journal, 2022, 446, 137025.	6.6	9
77	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
78	High Temperature Oxidation Behaviors of CrNx and Cr-Si-N Thin Films at 1000 Â°C. Coatings, 2019, 9, 540.	1.2	8
79	Sonochemical Synthesis and Characterization of Rod-Shaped Bi2O3/ZnO Anchored with f-MWCNT Nanocomposite for the Electrochemical Determination of Ofloxacin. Journal of the Electrochemical Society, 2021, 168, 087506.	1.3	8
80	Impact of Sn Content on Structural Properties and Sensing Performance of InSn_xO_y Thin Film on Flexible Substrate for EGFET pH Sensors. Journal of the Electrochemical Society, 2019, 166, B407-B413.	1.3	7
81	Small nonphosphorylated Grb2-SH2 domain antagonists evaluated by surface plasmon resonance technology. Biopolymers, 2005, 80, 628-635.	1.2	6
82	High performance solâ€“gel synthesized Ce_{0.9}Sr_{0.1}(Zr_{0.53}Ti_{0.47})O₄sensing membrane for a solid-state pH sensor. RSC Advances, 2018, 8, 21210-21213.	1.7	6
83	Fabrication of gadolinium zinc oxide anchored with functionalized-SWCNT planted on glassy carbon electrode: Potential detection of psychotropic drug (phenothiazine) in biotic sample. Journal of Electroanalytical Chemistry, 2022, 918, 116521.	1.9	6
84	Structural and Sensing Properties of Solâ€“Gel Synthesized Ce₂(Zr_{1â€“<italic>x</italic>}Ti_{<italic>x</italic>})O<sub>1<italic>y</ita Films for pH Sensors. IEEE Transactions on Electron Devices, 2017, 64, 3971-3975.		
85	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
86	Super Nernstian pH sensitivity of excess cerium in Ce2-xSrx(Zr0.53Ti0.47)Oy sensing membranes for solid state pH sensors. Sensors and Actuators B: Chemical, 2018, 274, 133-143.	4.0	5
87	Temperature abetted synthesis of novel magnesium stannate nanoparticles assisted for nanomolar level detection of hazardous flavonoid in biological samples. Food Chemistry, 2021, 361, 130162.	4.2	5
88	Probing the nonâ€covalent binding interaction of the Na⁺ channel inactivation gate peptide in a linker between domain III and IV with 5,5â€diphenyhydantoin in electrospray ion trap tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2007, 21, 3795-3802.	0.7	4
89	Influence of Annealing Temperature on Structural Compositions and pH Sensing Properties of Sol-Gel Derived YTixOy Electroceramic Sensing Membranes. Journal of the Electrochemical Society, 2019, 166, B187-B192.	1.3	4
90	Two-dimensional copper oxide/zinc oxide nanoflakes with three-dimensional flower-like heterostructure enhanced with electrocatalytic activity towardÂnimesulide detection. Materials Today Chemistry, 2022, 24, 100768.	1.7	4

#	Article	IF	Citations
91	Impact of Ti Content on Structural and Electrical Characteristics of High- $kappa$ Yb2TiO5 $alpha$ -InZnSnO Thin-Film Transistors. IEEE Electron Device Letters, 2017, 38, 341-344.	2.2	3
92	The influence of different power supply modes on the microstructure, mechanical, and corrosion properties of nc-TiC/a-C:H nanocomposite coatings. Surface and Coatings Technology, 2021, 422, 127512.	2.2	3
93	Simultaneously Determination of Procaine and Catechol at Functionalized Multi-Walled Carbon Nanotube with Poly-Glutamic Acid Modified Electrode. Journal of Biobased Materials and Bioenergy, 2014, 8, 149-157.	0.1	3
94	Property evaluation of TixZrNbTaFeBy high entropy alloy coatings: Effect of Ti and B contents. Surface and Coatings Technology, 2022, 434, 128180.	2.2	3
95	Microstructural, mechanical and optical properties of tungsten oxide coatings fabricated using superimposed HiPIMS-MF systems. Surface and Coatings Technology, 2022, 436, 128314.	2.2	2
96	Applying principles from â€œScientific Foundations for Future Physiciansâ€•to teaching chemistry in the department of medicine at Chang Gung University. Kaohsiung Journal of Medical Sciences, 2012, 28, S36-40.	0.8	1
97	Comparison of CeTiO₃ and Ce₂TiO₅ Sensing Films for pH Sensors. IEEE Electron Device Letters, 2018, 39, 885-888.	2.2	1
98	Interaction of DPH with the Local Anesthetic Receptor Site in D1-S6 of the Na+ Channel by NMR and Molecular Modeling. , 2006, , 174-175.		0
99	High-performance YbTi_xO_y/PbZr_{0.53}Ti_{0.47}O₃ stacked gate dielectric for InGaZnO thin-film transistors. Semiconductor Science and Technology, 2020, 35, 105025.	1.0	0