

Sheng-Tung Huang

List of Publications by Year in descending order

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105
papers

3,145
citations

136740

32
h-index

189595

50
g-index

106
all docs

106
docs citations

106
times ranked

4279
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advancement in biosensors technology for animal and livestock health management. <i>Biosensors and Bioelectronics</i> , 2017, 98, 398-407.	5.3	125
2	Determination of dopamine using a glassy carbon electrode modified with a graphene and carbon nanotube hybrid decorated with molybdenum disulfide flowers. <i>Mikrochimica Acta</i> , 2016, 183, 2267-2275.	2.5	121
3	Glucose biosensor based on glucose oxidase immobilized at gold nanoparticles decorated graphene-carbon nanotubes. <i>Enzyme and Microbial Technology</i> , 2015, 78, 40-45.	1.6	114
4	Core-shell heterostructured multiwalled carbon nanotubes@reduced graphene oxide nanoribbons/chitosan, a robust nanobiocomposite for enzymatic biosensing of hydrogen peroxide and nitrite. <i>Scientific Reports</i> , 2017, 7, 11910.	1.6	104
5	High glass transition and thermal stability of new pyridine-containing polyimides: Effect of protonation on fluorescence. <i>Polymer</i> , 2008, 49, 1538-1546.	1.8	90
6	Isovitexin Suppresses Lipopolysaccharide-Mediated Inducible Nitric Oxide Synthase through Inhibition of NF-kappa B in Mouse Macrophages. <i>Planta Medica</i> , 2005, 71, 748-753.	0.7	88
7	Efficient Synthesis of 'Redox-Switched' Naphthoquinone Thiol-Crown Ethers and Their Biological Activity Evaluation. <i>Bioorganic and Medicinal Chemistry</i> , 2002, 10, 1947-1952.	1.4	80
8	Bismuth nanoparticles decorated graphenated carbon nanotubes modified screen-printed electrode for mercury detection. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 95, 466-474.	2.7	75
9	6-Acyl-4-aryl/alkyl-5,7-dihydroxycoumarins as anti-inflammatory agents. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 4402-4409.	1.4	73
10	C60 fullerene-pentoxifylline dyad nanoparticles enhance autophagy to avoid cytotoxic effects caused by the I ² -amyloid peptide. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2011, 7, 107-114.	1.7	73
11	Surface conjugation of zwitterionic polymers to inhibit cell adhesion and protein adsorption. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 107, 152-159.	2.5	65
12	Immobilization of glucose oxidase on graphene and cobalt phthalocyanine composite and its application for the determination of glucose. <i>Enzyme and Microbial Technology</i> , 2014, 66, 60-66.	1.6	62
13	The degradation of dye sensitized solar cell in the presence of water isotopes. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 1624-1629.	3.0	61
14	Electrochemical latent redox ratiometric probes for real-time tracking and quantification of endogenous hydrogen sulfide production in living cells. <i>Biosensors and Bioelectronics</i> , 2017, 96, 233-238.	5.3	58
15	Development of a long-wavelength fluorescent probe based on quinone-methide-type reaction to detect physiologically significant thiols. <i>Analytica Chimica Acta</i> , 2008, 620, 120-126.	2.6	57
16	Synthesis and characterization of graphene-cobalt phthalocyanines and graphene-iron phthalocyanine composites and their enzymatic fuel cell application. <i>Renewable Energy</i> , 2015, 74, 867-874.	4.3	56
17	Development of a sensitive long-wavelength fluorogenic probe for nitroreductase: A new fluorimetric indicator for analyte determination by dehydrogenase-coupled biosensors. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3511-3516.	5.3	54
18	Novel iminocoumarin dyes as photosensitizers for dye-sensitized solar cell. <i>Solar Energy</i> , 2009, 83, 574-581.	2.9	50

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19	Structure-activity relationship of C6-C3 phenylpropanoids on xanthine oxidase-inhibiting and free radical-scavenging activities. <i>Free Radical Biology and Medicine</i> , 2007, 43, 1541-1551.	1.3	49
20	Colorimetric and bare-eye determination of fluoride using gold nanoparticle agglomeration probes. <i>Mikrochimica Acta</i> , 2013, 180, 801-806.	2.5	48
21	Ligand Binding to Wild-type and E-B13Q Mutant Insulins: A Three-state Allosteric Model System Showing Half-site Reactivity. <i>Journal of Molecular Biology</i> , 1995, 245, 324-330.	2.0	46
22	Reduced Graphene Oxide Non-covalent Functionalized with Zinc Tetra Phenyl Porphyrin Nanocomposite for Electrochemical Detection of Dopamine in Human Serum and Rat Brain Samples. <i>Electroanalysis</i> , 2016, 28, 2126-2135.	1.5	46
23	Real-time tracking and quantification of endogenous hydrogen peroxide production in living cells using graphenated carbon nanotubes supported Prussian blue cubes. <i>Sensors and Actuators B: Chemical</i> , 2018, 257, 220-227.	4.0	46
24	New Latent Fluorophore for DT Diaphorase. <i>Organic Letters</i> , 2006, 8, 265-268.	2.4	45
25	Design and synthesis of ultrasensitive off-on fluoride detecting fluorescence probe via autoinductive signal amplification. <i>Analyst</i> , The, 2015, 140, 346-352.	1.7	44
26	Real-time quantification of hydrogen peroxide production in living cells using NiCo ₂ S ₄ @CoS ₂ heterostructure. <i>Sensors and Actuators B: Chemical</i> , 2019, 287, 124-130.	4.0	42
27	Influences of water in bis-benzimidazole-derivative electrolyte additives to the degradation of the dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 158-162.	3.0	41
28	Inhibitory Effects of a Rice Hull Constituent on Tumor Necrosis Factor α , Prostaglandin E ₂ , and Cyclooxygenase-2 Production in Lipopolysaccharide-Activated Mouse Macrophages. <i>Annals of the New York Academy of Sciences</i> , 2005, 1042, 387-395.	1.8	40
29	The Immobilization of Glucose Oxidase at Manganese Dioxide Particles-Decorated Reduced Graphene Oxide Sheets for the Fabrication of a Glucose Biosensor. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 15582-15589.	1.8	39
30	Ratiometric electrochemical molecular switch for sensing hypochlorous acid: Applicable in food analysis and real-time in-situ monitoring. <i>Analytica Chimica Acta</i> , 2020, 1106, 168-175.	2.6	39
31	Vapor-based synthesis of maleimide-functionalized coating for biointerface engineering. <i>Chemical Communications</i> , 2012, 48, 10969.	2.2	37
32	ZnCo ₂ O ₄ Nanoflowers Grown on Co ₃ O ₄ Nanowire-Decorated Cu Foams for in Situ Profiling of H ₂ O ₂ in Live Cells and Biological Media. <i>ACS Applied Nano Materials</i> , 2019, 2, 5049-5060.	2.4	34
33	Electropolymerization of cobalt tetraamino-phthalocyanine at reduced graphene oxide for electrochemical determination of cysteine and hydrazine. <i>RSC Advances</i> , 2016, 6, 38463-38469.	1.7	33
34	Electrochemical Molecular Switch for the Selective Profiling of Cysteine in Live Cells and Whole Blood and for the Quantification of Aminoacylase-1. <i>Analytical Chemistry</i> , 2018, 90, 12631-12638.	3.2	32
35	Synthesis and electroluminescent properties of polyfluorene-based conjugated polymers containing bipolar groups. <i>Journal of Polymer Science Part A</i> , 2009, 47, 6231-6245.	2.5	31
36	Electrocatalyst based on Ni-MOF intercalated with amino acid-functionalized graphene nanoplatelets for the determination of endocrine disruptor bisphenol A. <i>Analytica Chimica Acta</i> , 2021, 1150, 338228.	2.6	31

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37	Hydrophilic Ester-Bearing Chlorogenic Acid Binds to a Novel Domain to Inhibit Xanthine Oxidase. <i>Planta Medica</i> , 2009, 75, 1237-1240.	0.7	30
38	Lifetime of an Aliphatic Iminium Ion in Aqueous Solution. <i>Journal of the American Chemical Society</i> , 1995, 117, 6631-6632.	6.6	29
39	Development of ratiometric electrochemical molecular switches to assay endogenous formaldehyde in live cells, whole blood and creatinine in saliva. <i>Biosensors and Bioelectronics</i> , 2021, 171, 112720.	5.3	29
40	The synthesis and optical characterization of novel iminocoumarin derivatives. <i>Dyes and Pigments</i> , 2010, 86, 6-14.	2.0	28
41	A non-covalent functionalization of copper tetraphenylporphyrin/chemically reduced graphene oxide nanocomposite for the selective determination of dopamine. <i>Applied Organometallic Chemistry</i> , 2016, 30, 40-46.	1.7	27
42	High-performance anti-corrosion behavior of graphene oxide decorated nickel coating by novel ultrasonic-assisted supercritical-CO ₂ electrodeposition approach. <i>Electrochimica Acta</i> , 2021, 387, 138543.	2.6	27
43	Synthesis of a new long-wavelength latent fluorimetric indicator for analytes determination in the DT-Diaphorase coupling dehydrogenase assay system. <i>Biosensors and Bioelectronics</i> , 2008, 23, 1793-1798.	5.3	26
44	Development and biological evaluation of C60 fulleropyrrolidine-thalidomide dyad as a new anti-inflammation agent. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 8619-8626.	1.4	26
45	Synthesis, optical and electrochemical properties of new hyperbranched poly(triphenylamine amide)s. <i>Polymer</i> , 2008, 49, 4087-4093.	1.8	25
46	Tri-layered chitosan scaffold as a potential skin substitute. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2015, 26, 855-867.	1.9	25
47	A simple electrochemical platform based on pectin stabilized gold nanoparticles for picomolar detection of biologically toxic amitrole. <i>Analyst</i> , 2015, 140, 5764-5771.	1.7	24
48	The study of preparation and photoelectrical properties of chemical bath deposited Zn, Sb and Ni-doped CuInS ₂ films for hydrogen production. <i>Solar Energy</i> , 2012, 86, 2584-2591.	2.9	23
49	In Situ Immobilized Sesamol-Quinone/Carbon Nanoblack-Based Electrochemical Redox Platform for Efficient Bioelectrocatalytic and Immunosensor Applications. <i>ACS Omega</i> , 2018, 3, 10823-10835.	1.6	23
50	Ultrasonic synthesis of bismuth-organic framework intercalated carbon nanofibers: A dual electrocatalyst for trace-level monitoring of nitro hazards. <i>Electrochimica Acta</i> , 2021, 381, 138280.	2.6	23
51	A new organic redox species-indole tetraone trapped MWCNT modified electrode prepared by in-situ electrochemical oxidation of indole for a bifunctional electrocatalysis and simultaneous flow injection electroanalysis of hydrazine and hydrogen peroxide. <i>Electrochimica Acta</i> , 2018, 268, 150-162.	2.6	21
52	High-performance polyvinylpyrrolidone capped copper coatings via ultrasonic-assisted supercritical-CO ₂ electrodeposition: Electrochemical evaluation. <i>Surface and Coatings Technology</i> , 2021, 409, 126926.	2.2	21
53	Inhibition of AMPK-Associated Autophagy Enhances Caffeic Acid Phenethyl Ester-Induced Cell Death in C6 Glioma Cells. <i>Planta Medica</i> , 2011, 77, 907-914.	0.7	20
54	A switchable electrochemical redox ratiometric substrate based on ferrocene for highly selective and sensitive fluoride detection. <i>RSC Advances</i> , 2016, 6, 71727-71732.	1.7	20

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55	Growth of large-scale MoS ₂ nanosheets on double layered ZnCo ₂ O ₄ for real-time <i>in situ</i> H ₂ S monitoring in live cells. <i>Journal of Materials Chemistry B</i> , 2020, 8, 7453-7465.	2.9	20
56	Ultrasonic-assisted supercritical-CO ₂ electrodeposition of Zn-Co film for high-performance corrosion inhibition: A greener approach. <i>Ultrasonics Sonochemistry</i> , 2021, 72, 105463.	3.8	20
57	Synthesis and anti-inflammation evaluation of new C ₆₀ fulleropyrrolidines bearing biologically active xanthine. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 99-103.	1.0	19
58	A rapid fluorescence detecting platform: applicable to sense carnitine and chloramphenicol in food samples. <i>RSC Advances</i> , 2014, 4, 64112-64118.	1.7	19
59	Amperometric detection of nitric oxide using a glassy carbon electrode modified with gold nanoparticles incorporated into a nanohybrid composed of reduced graphene oxide and Nafion. <i>Mikrochimica Acta</i> , 2017, 184, 3291-3299.	2.5	19
60	Surfactant-free solvothermal synthesis of Cu-MOF via protonation-deprotonation approach: A morphological dependent electrocatalytic activity for therapeutic drugs. <i>Mikrochimica Acta</i> , 2020, 187, 650.	2.5	19
61	Gold-Silver Bimetallic Alloy Nanoparticles in a Covalent Organic Framework for Real-Time Monitoring of Hydrogen Peroxide from Live Cells. <i>ACS Applied Nano Materials</i> , 2022, 5, 6340-6351.	2.4	19
62	Electrochemical OFF-ON ratiometric chemodosimeters for the selective and rapid detection of fluoride. <i>Talanta</i> , 2015, 131, 121-126.	2.9	17
63	Efficient entry to 1-benzoxepine ring skeleton via tandem SN ₂ /Wittig reaction. Total synthesis of NADH: ubiquinone oxidoreductase (complex I) antagonist pterulinic acid. <i>Tetrahedron</i> , 2003, 59, 1277-1281.	1.0	16
64	Fluorine-Modified Rutaecarpine Exerts Cyclooxygenase-2 Inhibition and Anti-inflammatory Effects in Lungs. <i>Frontiers in Pharmacology</i> , 2019, 10, 91.	1.6	16
65	Rapid One-Pot Synthesis of Polydopamine Encapsulated Carbon Anchored with Au Nanoparticles: Versatile Electrocatalysts for Chloramphenicol and Folic Acid Sensors. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2853.	1.8	16
66	Anti-poisoning electrode for real-time in-situ monitoring of hydrogen sulfide release. <i>Sensors and Actuators B: Chemical</i> , 2021, 326, 128844.	4.0	16
67	Influence of ultrasonic combined supercritical-CO ₂ electrodeposition process on copper film fabrication: Electrochemical evaluation. <i>Ultrasonics Sonochemistry</i> , 2021, 74, 105555.	3.8	16
68	An Integrated Real-time Electrochemical LAMP Device for Pathogenic Bacteria Detection in Food. <i>Electroanalysis</i> , 2018, 30, 2397-2404.	1.5	14
69	Urease-free Ni microwires-intercalated Co-ZIF electrocatalyst for rapid detection of urea in human fluid and milk samples in diverse electrolytes. <i>Materials Chemistry Frontiers</i> , 2021, 5, 1942-1952.	3.2	14
70	Synthesis of homogeneously distributed gold nanoparticles built-in metal free organic framework: Electrochemical detection of riboflavin in pharmaceutical and human fluids samples. <i>Journal of Electroanalytical Chemistry</i> , 2021, 887, 115143.	1.9	14
71	Surfactant-induced morphological evolution of Cu(II) metal organic frameworks: Applicable in picomolar quantification of bilirubin. <i>Applied Surface Science</i> , 2021, 557, 149827.	3.1	14
72	Simultaneous electrochemical determination of DNA nucleobases using AgNPs embedded covalent organic framework. <i>Mikrochimica Acta</i> , 2021, 188, 358.	2.5	14

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73	Carboxylate Ions Are Strong Allosteric Ligands for the HisB10 Sites of the R-State Insulin Hexamer. <i>Biochemistry</i> , 1997, 36, 9878-9888.	1.2	13
74	Total synthesis of NADH:ubiquinone oxidoreductase (complex I) antagonist pterulone and its analogue. <i>Tetrahedron Letters</i> , 2001, 42, 7473-7475.	0.7	13
75	Label-free electrochemical detection of neuraminidase activity: A facile whole blood diagnostic probe for infectious diseases. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 641-648.	4.0	13
76	Electrochemical substrate for active profiling of cellular surface leucine aminopeptidase activity and drug resistance in cancer cells. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111948.	5.3	13
77	Development of a novel latent electrochemical molecular substrate for the real-time monitoring of the tumor marker aminopeptidase N in live cells, whole blood and urine. <i>Biosensors and Bioelectronics</i> , 2022, 203, 114049.	5.3	13
78	A new electrochemical substrate for rapid and sensitive in vivo monitoring of β -galactosidase gene expressions. <i>Analyst</i> , 2015, 140, 6040-6046.	1.7	12
79	Axial Coordination Site-Turned Surface Confinement, Electron Transfer, and Bio-Electrocatalytic Applications of a Hemin Complex on Graphitic Carbon Nanomaterial-Modified Electrodes. <i>ACS Omega</i> , 2018, 3, 5435-5444.	1.6	12
80	<i>Sansevieria trifasciata</i> biomass-derived activated carbon by supercritical-CO ₂ route: Electrochemical detection towards carcinogenic organic pollutant and energy storage application. <i>Electrochimica Acta</i> , 2022, 424, 140672.	2.6	11
81	Total synthesis of endothelin-converting enzyme antagonist WS75624 B. <i>Tetrahedron Letters</i> , 1998, 39, 9335-9338.	0.7	10
82	A Novel Bis-aziridinyl naphthoquinone with Anti-Solid Tumor Activity in which Induced Apoptosis is Associated with Altered Expression Of Bcl-2 Protein. <i>ChemBioChem</i> , 2004, 5, 797-803.	1.3	10
83	A Sensitive Ratiometric Long-Wavelength Fluorescent Probe for Selective Determination of Cysteine/Homocysteine. <i>Journal of Fluorescence</i> , 2016, 26, 1489-1495.	1.3	10
84	Synthetic Fluororutaecarpine Inhibits Inflammatory Stimuli and Activates Endothelial Transient Receptor Potential Vanilloid-Type 1. <i>Molecules</i> , 2017, 22, 656.	1.7	10
85	electrochemical immobilization of [Mn(bpy) ₂ (H ₂ O) ₂] ²⁺ complex on MWCNT modified electrode and its electrocatalytic H ₂ O ₂ oxidation and reduction reactions: A Mn-Pseudocatalase enzyme bio-mimicking electron-transfer functional model. <i>Journal of Electroanalytical Chemistry</i> , 2018, 812, 10-21.	1.9	10
86	Simple and selective optical biosensor using Ultrasonicator synthesis of 5-((anthracen-9-ylmethylene)) Tj ETQq0 0 0 rgBT /Overlock 10 T Food Chemistry, 2020, 332, 127150.	4.2	10
87	Design and Synthesis of a Long-Wavelength Latent Fluorogenic Substrate for Salicylate Hydroxylase: A Useful Fluorimetric Indicator for Analyte Determination by Dehydrogenase-Coupled Biosensors. <i>Analytical Chemistry</i> , 2010, 82, 7329-7334.	3.2	9
88	Chemical linkage functions of poly(ether imide)s on the resistive switching memory effects. <i>Organic Electronics</i> , 2015, 16, 148-163.	1.4	9
89	Design of controlled multi-probe coupled assay via bioinspired signal amplification approach for mercury detection. <i>RSC Advances</i> , 2016, 6, 58485-58492.	1.7	9
90	Bisintercalating DNA redox reporters for real-time electrochemical qLAMP. <i>Biosensors and Bioelectronics</i> , 2019, 129, 277-283.	5.3	9

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91	Metal and heteroatoms-free carbon soot obtained from atmospheric combustion of naphthalene for sensitive dissolved oxygen reduction reaction and sensing in neutral media. <i>Electrochimica Acta</i> , 2019, 296, 407-417.	2.6	9
92	Convenient and ultrasensitive detection of live <i>Salmonella</i> using ratiometric electrochemical molecular substrates. <i>Analytica Chimica Acta</i> , 2022, 1190, 339244.	2.6	8
93	Synthesis of robust electrochemical substrate and fabrication of immobilization free biosensors for rapid sensing of salicylate and β -hydroxybutyrate in whole blood. <i>Analytica Chimica Acta</i> , 2017, 990, 78-83.	2.6	7
94	Electrochemical polymerization of para-chloroaniline as highly redox-active poly(para-chloroaniline) on graphitized mesoporous carbon surface. <i>Electrochimica Acta</i> , 2020, 349, 136376.	2.6	7
95	Designing anthraquinone- π -pyrrole redox intercalating probes for electrochemical gene detection. <i>Biosensors and Bioelectronics</i> , 2016, 79, 294-299.	5.3	6
96	Antitumor activity of a novel bis-aziridinyl naphthoquinone (AZ4) mediating cell cycle arrest and apoptosis in non-small cell lung cancer cell line NCI-H460. <i>Acta Pharmacologica Sinica</i> , 2007, 28, 559-566.	2.8	5
97	Conjugation of Monocarboxybetaine Molecules on Amino-Poly-p-xylylene Films to Reduce Protein Adsorption and Cell Adhesion. <i>Langmuir</i> , 2014, 30, 14257-14262.	1.6	5
98	Cinnamomum osmophloeum extracts inhibit growth of <i>Helicobacter pylori</i> and postinfectious interleukin-8 expression in human gastric epithelial cells. <i>RSC Advances</i> , 2015, 5, 22097-22105.	1.7	5
99	Clickable and Photo-Erasable Surface Functionalities by Using Vapor-Deposited Polymer Coatings. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 1753-1761.	2.6	5
100	Low-Cytotoxic Synthetic Bromorutaecarpine Exhibits Anti-Inflammation and Activation of Transient Receptor Potential Vanilloid Type 1 Activities. <i>BioMed Research International</i> , 2013, 2013, 1-8.	0.9	4
101	Gd doped molybdenum selenide/carbon nanofibers: an excellent electrocatalyst for monitoring endogenous H_2S . <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 2871-2879.	3.0	4
102	Wasted <i>Ganoderma tsugae</i> Derived Chitosans for Smear Layer Removal in Endodontic Treatment. <i>Polymers</i> , 2019, 11, 1795.	2.0	3
103	Synthesis and biological evaluation of novel bis-aziridinyl naphthoquinone derivatives. <i>Oncology Research</i> , 2003, 13, 199-204.	0.6	2
104	Real-Time Electrochemical LAMP for DNA Detection of <i>Salmonella</i> SPP. , 2018, , .		1
105	Efficient Entry to 1-Benzoxepine Ring Skeleton via Tandem SN_2 /Wittig Reaction. Total Synthesis of NADH: Ubiquinone Oxidoreductase (Complex I) Antagonist Pterulinic Acid.. <i>ChemInform</i> , 2003, 34, no.	0.1	0