

Sheng-Tung Huang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102
papers

2,386
citations

30
h-index

43
g-index

106
ext. papers

2,749
ext. citations

5.9
avg, IF

5.28
L-index

#	Paper	IF	Citations
102	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	11.8	3
101	Convenient and ultrasensitive detection of live Salmonella using ratiometric electrochemical molecular substrates. <i>Analytica Chimica Acta</i> , 2022 , 1190, 339244	6.6	0
100	Sansevieria trifasciata biomass-derived activated carbon by supercritical-CO ₂ route: electrochemical detection towards carcinogenic organic pollutant and energy storage application. <i>Electrochimica Acta</i> , 2022 , 140672	6.7	1
99	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	6.6	17
98	Ultrasonic-assisted supercritical-CO electrodeposition of Zn-Co film for high-performance corrosion inhibition: A greener approach. <i>Ultrasonics Sonochemistry</i> , 2021 , 72, 105463	8.9	10
97	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	4.1	1
96	Influence of ultrasonic combined supercritical-CO electrodeposition process on copper film fabrication: Electrochemical evaluation. <i>Ultrasonics Sonochemistry</i> , 2021 , 74, 105555	8.9	6
95	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	6.7	4
94	Anti-poisoning electrode for real-time in-situ monitoring of hydrogen sulfide release. <i>Sensors and Actuators B: Chemical</i> , 2021 , 326, 128844	8.5	5
93	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	11.8	13
92	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	7.8	4
91	Gd doped molybdenum selenide/carbon nanofibers: an excellent electrocatalyst for monitoring endogenous H ₂ S. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 2871-2879	6.8	1
90	High-performance polyvinylpyrrolidone capped copper coatings via ultrasonic-assisted supercritical-CO ₂ electrodeposition: Electrochemical evaluation. <i>Surface and Coatings Technology</i> , 2021 , 409, 126926	4.4	5
89	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	6.7	6
88	Surfactant-induced morphological evolution of Cu(II) metal organic frameworks: Applicable in picomolar quantification of bilirubin. <i>Applied Surface Science</i> , 2021 , 557, 149827	6.7	2
87	Simultaneous electrochemical determination of DNA nucleobases using AgNPs embedded covalent organic framework. <i>Mikrochimica Acta</i> , 2021 , 188, 358	5.8	3
86	Simple and selective optical biosensor using Ultrasonicator synthesis of 5-((anthracen-9-ylmethylene) amino)-2,3-dihydrophthalazine-1,4-dione for direct detection of ascorbic acid in vegetables and fruits. <i>Food Chemistry</i> , 2020 , 332, 127150	8.5	4

85	Electrochemical polymerization of para-chloroaniline as highly redox-active poly(para-chloroaniline) on graphitized mesoporous carbon surface. <i>Electrochimica Acta</i> , 2020 , 349, 136376	6.7	4
84	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	6.6	15
83	Growth of large-scale MoS nanosheets on double layered ZnCoO for real-time HS monitoring in live cells. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 7453-7465	7.3	12
82	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,	6.3	8
81	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	11.8	6
80	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	5.8	8
79	Clickable and Photo-Erasable Surface Functionalities by Using Vapor-Deposited Polymer Coatings. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 1753-1761	5.5	3
78	Fluorine-Modified Rutaecarpine Exerts Cyclooxygenase-2 Inhibition and Anti-inflammatory Effects in Lungs. <i>Frontiers in Pharmacology</i> , 2019 , 10, 91	5.6	12
77	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	8.5	30
76	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	5.6	20
75	Wasted Derived Chitosans for Smear Layer Removal in Endodontic Treatment. <i>Polymers</i> , 2019 , 11,	4.5	1
74	Bisintercalating DNA redox reporters for real-time electrochemical qLAMP. <i>Biosensors and Bioelectronics</i> , 2019 , 129, 277-283	11.8	5
73	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	5.3	50
72	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	6.7	5
71	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	4.1	8
70	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	6.7	15
69	An Integrated Real-time Electrochemical LAMP Device for Pathogenic Bacteria Detection in Food. <i>Electroanalysis</i> , 2018 , 30, 2397-2404	3	7
68	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	8.5	35

67	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	7.8	19
66	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	3.9	16
65	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	3.9	11
64	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	11.8	44
63	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	5.8	16
62	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	8.5	8
61	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	6.6	4
60	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	4.9	86
59	Recent advancement in biosensors technology for animal and livestock health management. <i>Biosensors and Bioelectronics</i> , 2017 , 98, 398-407	11.8	88
58	Synthetic Fluororutaecarpine Inhibits Inflammatory Stimuli and Activates Endothelial Transient Receptor Potential Vanilloid-Type 1. <i>Molecules</i> , 2017 , 22,	4.8	6
57	A switchable electrochemical redox ratiometric substrate based on ferrocene for highly selective and sensitive fluoride detection. <i>RSC Advances</i> , 2016 , 6, 71727-71732	3.7	16
56	Design of controlled multi-probe coupled assay via bioinspired signal amplification approach for mercury detection. <i>RSC Advances</i> , 2016 , 6, 58485-58492	3.7	8
55	A Sensitive Ratiometric Long-Wavelength Fluorescent Probe for Selective Determination of Cysteine/Homocysteine. <i>Journal of Fluorescence</i> , 2016 , 26, 1489-95	2.4	7
54	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	3	36
53	Designing anthraquinone-pyrrole redox intercalating probes for electrochemical gene detection. <i>Biosensors and Bioelectronics</i> , 2016 , 79, 294-9	11.8	5
52	Electropolymerization of cobalt tetraamino-phthalocyanine at reduced graphene oxide for electrochemical determination of cysteine and hydrazine. <i>RSC Advances</i> , 2016 , 6, 38463-38469	3.7	27
51	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	5.8	83
50	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	3.1	22

49	A simple electrochemical platform based on pectin stabilized gold nanoparticles for picomolar detection of biologically toxic amitrole. <i>Analyst, The</i> , 2015 , 140, 5764-71	5	22
48	A new electrochemical substrate for rapid and sensitive in vivo monitoring of β -galactosidase gene expressions. <i>Analyst, The</i> , 2015 , 140, 6040-6	5	10
47	Tri-layered chitosan scaffold as a potential skin substitute. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2015 , 26, 855-67	3.5	17
46	Glucose biosensor based on glucose oxidase immobilized at gold nanoparticles decorated graphene-carbon nanotubes. <i>Enzyme and Microbial Technology</i> , 2015 , 78, 40-5	3.8	96
45	Cinnamomum osmophloeum extracts inhibit growth of Helicobacter pylori and postinfectious interleukin-8 expression in human gastric epithelial cells. <i>RSC Advances</i> , 2015 , 5, 22097-22105	3.7	4
44	Chemical linkage functions of poly(ether imide)s on the resistive switching memory effects. <i>Organic Electronics</i> , 2015 , 16, 148-163	3.5	8
43	Design and synthesis of ultrasensitive off-on fluoride detecting fluorescence probe via autoinductive signal amplification. <i>Analyst, The</i> , 2015 , 140, 346-52	5	38
42	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 ¹	8.1	45
41	Electrochemical OFF-ON ratiometric chemodosimeters for the selective and rapid detection of fluoride. <i>Talanta</i> , 2015 , 131, 121-6	6.2	14
40	Conjugation of monocarboxybetaine molecules on amino-poly-p-xylylene films to reduce protein adsorption and cell adhesion. <i>Langmuir</i> , 2014 , 30, 14257-62	4	5
39	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	3.9	36
38	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, 60-6	3.8	45
37	A rapid fluorescence detecting platform: applicable to sense carnitine and chloramphenicol in food samples. <i>RSC Advances</i> , 2014 , 4, 64112-64118	3.7	14
36	Colorimetric and bare-eye determination of fluoride using gold nanoparticle agglomeration probes. <i>Mikrochimica Acta</i> , 2013 , 180, 801-806	5.8	41
35	Surface conjugation of zwitterionic polymers to inhibit cell adhesion and protein adsorption. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 107, 152-9	6	56
34	Low-cytotoxic synthetic bromorutaecarpine exhibits anti-inflammation and activation of transient receptor potential vanilloid type 1 activities. <i>BioMed Research International</i> , 2013 , 2013, 795095	3	4
33	Vapor-based synthesis of maleimide-functionalized coating for biointerface engineering. <i>Chemical Communications</i> , 2012 , 48, 10969-71	5.8	33
32	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	6.8	20

31	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, 3511-6	11.8	52
30	Inhibition of AMPK-associated autophagy enhances caffeic acid phenethyl ester-induced cell death in C6 glioma cells. <i>Planta Medica</i> , 2011 , 77, 907-14	3.1	15
29	C60 fullerene-pentoxifylline dyad nanoparticles enhance autophagy to avoid cytotoxic effects caused by the β -amyloid peptide. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2011 , 7, 107-14	6	65
28	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	6.4	38
27	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	6.4	55
26	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, 7329-34	7.8	7
25	The synthesis and optical characterization of novel iminocoumarin derivatives. <i>Dyes and Pigments</i> , 2010 , 86, 6-14	4.6	25
24	Hydrophilic ester-bearing chlorogenic acid binds to a novel domain to inhibit xanthine oxidase. <i>Planta Medica</i> , 2009 , 75, 1237-40	3.1	23
23	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
22	Novel iminocoumarin dyes as photosensitizers for dye-sensitized solar cell. <i>Solar Energy</i> , 2009 , 83, 574-583	5.8	46
21	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, 1793-8	11.8	25
20	Synthesis, optical and electrochemical properties of new hyperbranched poly(triphenylamine amide)s. <i>Polymer</i> , 2008 , 49, 4087-4093	3.9	25
19	High glass transition and thermal stability of new pyridine-containing polyimides: Effect of protonation on fluorescence. <i>Polymer</i> , 2008 , 49, 1538-1546	3.9	84
18	Development and biological evaluation of C(60) fulleropyrrolidine-thalidomide dyad as a new anti-inflammation agent. <i>Bioorganic and Medicinal Chemistry</i> , 2008 , 16, 8619-26	3.4	25
17	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, 120-6	6.6	56
16	Synthesis and anti-inflammation evaluation of new C60 fulleropyrrolidines bearing biologically active xanthine. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 99-103	2.9	18
15	Antitumor activity of a novel bis-aziridinylnaphthoquinone (AZ4) mediating cell cycle arrest and apoptosis in non-small cell lung cancer cell line NCI-H460. <i>Acta Pharmacologica Sinica</i> , 2007 , 28, 559-66	8	5
14	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, 1541-51	7.8	40

13	New latent fluorophore for DT diaphorase. <i>Organic Letters</i> , 2006 , 8, 265-8	6.2	44
12	6-Acyl-4-aryl/alkyl-5,7-dihydroxycoumarins as anti-inflammatory agents. <i>Bioorganic and Medicinal Chemistry</i> , 2006 , 14, 4402-9	3.4	62
11	Inhibitory effects of a rice hull constituent on tumor necrosis factor alpha, prostaglandin E2, and cyclooxygenase-2 production in lipopolysaccharide-activated mouse macrophages. <i>Annals of the New York Academy of Sciences</i> , 2005 , 1042, 387-95	6.5	34
10	Isovitexin suppresses lipopolysaccharide-mediated inducible nitric oxide synthase through inhibition of NF-kappa B in mouse macrophages. <i>Planta Medica</i> , 2005 , 71, 748-53	3.1	75
9	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	3.8	9
8	Efficient entry to 1-benzoxepine ring skeleton via tandem SN2/Wittig reaction. Total synthesis of NADH: ubiquinone oxidoreductase (complex I) antagonist pterulinic acid. <i>Tetrahedron</i> , 2003 , 59, 1277-1284	2.4	15
7	Synthesis and biological evaluation of novel bis-aziridinyl-naphthoquinone derivatives. <i>Oncology Research</i> , 2003 , 13, 199-204	4.8	2
6	Efficient synthesis of redox-switched naphthoquinone thiol-crown ethers and their biological activity evaluation. <i>Bioorganic and Medicinal Chemistry</i> , 2002 , 10, 1947-52	3.4	72
5	Total synthesis of NADH:ubiquinone oxidoreductase (complex I) antagonist pterulone and its analogue. <i>Tetrahedron Letters</i> , 2001 , 42, 7473-7475	2	12
4	Total synthesis of endothelin-converting enzyme antagonist WS75624 B. <i>Tetrahedron Letters</i> , 1998 , 39, 9335-9338	2	8
3	Carboxylate ions are strong allosteric ligands for the HisB10 sites of the R-state insulin hexamer. <i>Biochemistry</i> , 1997 , 36, 9878-88	3.2	13
2	Lifetime of an Aliphatic Iminium Ion in Aqueous Solution. <i>Journal of the American Chemical Society</i> , 1995 , 117, 6631-6632	16.4	23
1	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, 324-30	6.5	43