

Danny K Y Wong

List of Publications by Year in descending order

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64
papers

2,231
citations

159585

30
h-index

223800

46
g-index

64
all docs

64
docs citations

64
times ranked

2892
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Recent strategies to minimise fouling in electrochemical detection systems. <i>Reviews in Analytical Chemistry</i> , 2016, 35, 1-28. | 3.2 | 195 |
| 2 | A nanotube array immunosensor for direct electrochemical detection of antigen-antibody binding. <i>Sensors and Actuators B: Chemical</i> , 2007, 123, 177-182. | 7.8 | 104 |
| 3 | Square wave voltammetry versus electrochemical impedance spectroscopy as a rapid detection technique at electrochemical immunosensors. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1467-1473. | 10.1 | 91 |
| 4 | A photoelectrochemical aptasensor based on a 3D flower-like TiO ₂ -MoS ₂ -gold nanoparticle heterostructure for detection of kanamycin. <i>Biosensors and Bioelectronics</i> , 2018, 112, 193-201. | 10.1 | 89 |
| 5 | Quantum-Dot-Functionalized Poly(styrene-co-acrylic acid) Microbeads: Step-Wise Self-Assembly, Characterization, and Applications for Sub-femtomolar Electrochemical Detection of DNA Hybridization. <i>Advanced Functional Materials</i> , 2010, 20, 1173-1179. | 14.9 | 82 |
| 6 | Self-Assembled Layer of Thiolated Protein G as an Immunosensor Scaffold. <i>Analytical Chemistry</i> , 2007, 79, 350-354. | 6.5 | 72 |
| 7 | Hydrogen peroxide detection at a horseradish peroxidase biosensor with a Au nanoparticle-dotted titanate nanotube hydrophobic ionic liquid scaffold. <i>Biosensors and Bioelectronics</i> , 2012, 32, 188-194. | 10.1 | 68 |
| 8 | An Indirect Perfluorosulfonated Ionomer-Coated Electrochemical Immunosensor for the Detection of the Protein Human Chorionic Gonadotrophin. <i>Analytical Chemistry</i> , 1999, 71, 4088-4094. | 6.5 | 67 |
| 9 | Enantiomeric differentiation of a wide range of pharmacologically active substances by capillary electrophoresis using modified β -cyclodextrins. <i>Journal of Chromatography A</i> , 1994, 686, 293-307. | 3.7 | 66 |
| 10 | A TiO ₂ nanosheet-g-C ₃ N ₄ composite photoelectrochemical enzyme biosensor excitable by visible irradiation. <i>Analytica Chimica Acta</i> , 2017, 984, 86-95. | 5.4 | 66 |
| 11 | A kinetic model for the dissolution mechanism of copper in acidic sulfate solutions. <i>Electrochimica Acta</i> , 1993, 38, 2121-2127. | 5.2 | 61 |
| 12 | Detection signal amplification strategies at nanomaterial-based photoelectrochemical biosensors. <i>Journal of Materials Chemistry B</i> , 2020, 8, 7880-7893. | 5.8 | 61 |
| 13 | High sensitivity carbon nanotube tower electrodes. <i>Sensors and Actuators B: Chemical</i> , 2006, 120, 298-304. | 7.8 | 57 |
| 14 | Electrocatalytic detection of phenolic estrogenic compounds at NiTPPS carbon nanotube composite electrodes. <i>Analytica Chimica Acta</i> , 2011, 689, 212-218. | 5.4 | 57 |
| 15 | Direct application strategy to immobilise a thioctic acid self-assembled monolayer on a gold electrode. <i>Analytica Chimica Acta</i> , 2004, 504, 243-251. | 5.4 | 55 |
| 16 | Gold Nanoparticle Encapsulated-Tubular TiO ₂ Nanocluster As a Scaffold for Development of Thiolated Enzyme Biosensors. <i>Analytical Chemistry</i> , 2013, 85, 4350-4356. | 6.5 | 50 |
| 17 | Conducting polypyrrole films as a potential tool for electrochemical treatment of azo dyes in textile wastewaters. <i>Journal of Hazardous Materials</i> , 2015, 283, 164-170. | 12.4 | 48 |
| 18 | Picogram-detection of estradiol at an electrochemical immunosensor with a gold nanoparticle Protein G-(LC-SPDP)-scaffold. <i>Talanta</i> , 2009, 77, 1437-1443. | 5.5 | 47 |

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|----|---|------|-----------|
| 19 | Electrocatalytic detection of estradiol at a carbon nanotube Ni(Cyclam) composite electrode fabricated based on a two-factorial design. <i>Analytica Chimica Acta</i> , 2007, 594, 184-191. | 5.4 | 45 |
| 20 | Voltammetric studies of carbon disk electrodes with submicrometer-sized structural diameters. <i>Analytical Chemistry</i> , 1995, 67, 4086-4090. | 6.5 | 44 |
| 21 | Strategic Applications of Nanomaterials as Sensing Platforms and Signal Amplification Markers at Electrochemical Immunosensors. <i>Electroanalysis</i> , 2016, 28, 1730-1749. | 2.9 | 44 |
| 22 | An in Vivo Probe Based on Mechanically Strong but Structurally Small Carbon Electrodes with an Appreciable Surface Area. <i>Analytical Chemistry</i> , 2001, 73, 4793-4800. | 6.5 | 43 |
| 23 | Extraction of silver by polypyrrole films upon a base-acid treatment. <i>Analytica Chimica Acta</i> , 1998, 364, 41-51. | 5.4 | 41 |
| 24 | Evaluation of hydrogenated physically small carbon electrodes in resisting fouling during voltammetric detection of dopamine. <i>Sensors and Actuators B: Chemical</i> , 2007, 128, 299-305. | 7.8 | 37 |
| 25 | Minimizing Fouling at Hydrogenated Conical-Tip Carbon Electrodes during Dopamine Detection in Vivo. <i>Analytical Chemistry</i> , 2014, 86, 2443-2450. | 6.5 | 37 |
| 26 | ENHANCING DIRECT ELECTRON TRANSFER OF GLUCOSE OXIDASE USING A GOLD NANOPARTICLE TITANATE NANOTUBE NANOCOMPOSITE ON A BIOSENSOR. <i>Electrochimica Acta</i> , 2015, 163, 64-70. | 5.2 | 37 |
| 27 | Fabrication and characterization of carbon nanotube array electrodes with gold nanoparticle tips. <i>Sensors and Actuators B: Chemical</i> , 2008, 133, 208-212. | 7.8 | 34 |
| 28 | Pulse voltammetry in single cells using platinum microelectrodes. <i>Analytical Chemistry</i> , 1992, 64, 1264-1268. | 6.5 | 33 |
| 29 | Anodic stripping voltammetry at mercury films deposited on ultrasmall carbon-ring electrodes. <i>Analytical Chemistry</i> , 1990, 62, 2697-2702. | 6.5 | 32 |
| 30 | Characterization of the voltammetric response at intracellular carbon ring electrodes. <i>Electroanalysis</i> , 1991, 3, 87-95. | 2.9 | 31 |
| 31 | Detection of estradiol at an electrochemical immunosensor with a Cu UPD DTBP-Protein G scaffold. <i>Biosensors and Bioelectronics</i> , 2012, 35, 56-62. | 10.1 | 31 |
| 32 | A label-free electrochemical DNA biosensor based on a Zr(IV)-coordinated DNA duplex immobilised on a carbon nanofibre chitosan layer. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 2817-2826. | 3.7 | 27 |
| 33 | Recent Advances in Biosensing for Neurotransmitters and Disease Biomarkers using Microelectrodes. <i>ChemElectroChem</i> , 2017, 4, 822-833. | 3.4 | 27 |
| 34 | Detection of cortisol at a gold nanoparticle Protein G-DTBP-scaffold modified electrochemical immunosensor. <i>Analyst</i> , 2011, 136, 5204. | 3.5 | 24 |
| 35 | Evaluation of a carbon nanotube-titanate nanotube nanocomposite as an electrochemical biosensor scaffold. <i>Biosensors and Bioelectronics</i> , 2015, 66, 208-215. | 10.1 | 22 |
| 36 | Carbon Nanotubes Grown on Stainless Steel to Form Plate and Probe Electrodes for Chemical/Biological Sensing. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 891-897. | 0.9 | 21 |

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|----|---|------|-----------|
| 37 | Recent developments in electrochemical immunoassays and immunosensors. , 2008, , 115-143. | | 21 |
| 38 | Comparative study of thiolated Protein G scaffolds and signal antibody conjugates in the development of electrochemical immunosensors. <i>Biosensors and Bioelectronics</i> , 2007, 23, 633-639. | 10.1 | 19 |
| 39 | Harmonic impedance spectroscopy. Theory and experimental results for reversible and quasi-reversible redox systems. <i>The Journal of Physical Chemistry</i> , 1995, 99, 2134-2142. | 2.9 | 17 |
| 40 | Spontaneous release of large packets of noradrenaline from sympathetic nerve terminals in rat mesenteric arteries in vitro. <i>British Journal of Pharmacology</i> , 2000, 131, 1507-1511. | 5.4 | 17 |
| 41 | Amplified oxygen reduction signal at a Pt-Sn-modified TiO ₂ nanocomposite on an electrochemical aptasensor. <i>Biosensors and Bioelectronics</i> , 2019, 142, 111525. | 10.1 | 17 |
| 42 | Amplified detection signal at a photoelectrochemical aptasensor with a poly(diphenylbutadiene)-BiOBr heterojunction and Au-modified CeO ₂ octahedrons. <i>Biosensors and Bioelectronics</i> , 2022, 197, 113742. | 10.1 | 17 |
| 43 | Investigations of the feasibility of constructing a polypyrrole-mercury/mercury chloride reference electrode. <i>Polymer</i> , 1997, 38, 2561-2565. | 3.8 | 16 |
| 44 | Application of an ELISA-type screen printed electrode-based potentiometric assay to the detection of <i>Cryptosporidium parvum</i> oocysts. <i>Journal of Microbiological Methods</i> , 2013, 95, 182-185. | 1.6 | 16 |
| 45 | Electrochemical Study of Amiodarone Charge-Transfer Complexes. <i>Analytical Chemistry</i> , 1994, 66, 1198-1203. | 6.5 | 15 |
| 46 | Evaluation of physically small p-phenylacetate-modified carbon electrodes against fouling during dopamine detection in vivo. <i>Electrochimica Acta</i> , 2013, 101, 225-231. | 5.2 | 14 |
| 47 | Intracellular Voltammetry at Ultrasmall Platinum Electrodes. <i>Microchemical Journal</i> , 1993, 47, 308-316. | 4.5 | 12 |
| 48 | A Carbon Nanotube Needle Biosensor. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 2293-2300. | 0.9 | 12 |
| 49 | Diffusion-limited chronoamperometry at conical-tip microelectrodes. <i>Electrochimica Acta</i> , 2010, 55, 1272-1277. | 5.2 | 11 |
| 50 | Electrochemical purification of fluoride melts. <i>Journal of Non-Crystalline Solids</i> , 1992, 140, 297-300. | 3.1 | 9 |
| 51 | Extraction of mercury and silver into base-acid treated polypyrrole films: A possible pollution control technology. <i>Journal of Polymer Research</i> , 2001, 8, 151-157. | 2.4 | 9 |
| 52 | An amperometric immunosensor with a thiolated Protein G scaffold. <i>Electrochemistry Communications</i> , 2008, 10, 1020-1023. | 4.7 | 9 |
| 53 | An intimately bonded titanate nanotubeâ€“polyanilineâ€“gold nanoparticle ternary composite as a scaffold for electrochemical enzyme biosensors. <i>Analytica Chimica Acta</i> , 2016, 911, 59-68. | 5.4 | 9 |
| 54 | Improved dye entrapmentâ€“liberation performance at electrochemically synthesised polypyrroleâ€“reduced graphene oxide nanocomposite films. <i>Journal of Applied Electrochemistry</i> , 2017, 47, 777-788. | 2.9 | 9 |

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|----|--|-----|-----------|
| 55 | Hydrogenating carbon electrodes by n-butylsilane reduction to achieve an antifouling surface for selective dopamine detection. <i>Sensors and Actuators B: Chemical</i> , 2021, 327, 128881. | 7.8 | 7 |
| 56 | An electrochemical and spectrophotometric study of some charge-transfer complexes involving drug molecules in acetonitrile. <i>Electroanalysis</i> , 1996, 8, 66-74. | 2.9 | 6 |
| 57 | Effective activation of physically small carbon electrodes by n-butylsilane reduction. <i>Electrochemistry Communications</i> , 2016, 64, 35-41. | 4.7 | 6 |
| 58 | Electrochemical oxidation of 5-hydroxytryptamine and 5-hydroxyindoleacetic acid by integrated pulse linear scan voltammetry at ultrasmall gold ring electrodes. <i>Electroanalysis</i> , 1992, 4, 865-869. | 2.9 | 4 |
| 59 | Use of Acetylene for the Fabrication of a Glass Capillary Carbon Microelectrode. <i>Electrochemistry</i> , 2000, 68, 924-926. | 1.4 | 4 |
| 60 | Toxic interactions between clozapine and ampicillin. <i>Analytica Chimica Acta</i> , 1996, 319, 353-360. | 5.4 | 3 |
| 61 | Antifouling characteristics of a carbon electrode surface hydrogenated by n-butylsilane reduction. <i>Electrochimica Acta</i> , 2019, 305, 137-144. | 5.2 | 3 |
| 62 | Microscale immunosensors for biological agents. , 2005, 5718, 142. | | 2 |
| 63 | Kinetic model and thermodynamic study of Acid Red 1 entrapment at electropolymerised polypyrrole films. <i>Journal of Colloid and Interface Science</i> , 2015, 457, 188-194. | 9.4 | 1 |
| 64 | Surface characteristics of triethylsilane and phenylsilane hydrogenated structurally small carbon electrodes. <i>Diamond and Related Materials</i> , 2021, 114, 108322. | 3.9 | 0 |