

Wing Cheung Mak

List of Publications by Year in descending order

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69
papers

1,871
citations

236612

25
h-index

276539

41
g-index

74
all docs

74
docs citations

74
times ranked

2970
citing authors

#	ARTICLE	IF	CITATIONS
1	Lateral-flow technology: From visual to instrumental. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 79, 297-305.	5.8	202
2	Evidence-Based Point-of-Care Diagnostics: Current Status and Emerging Technologies. <i>Annual Review of Analytical Chemistry</i> , 2013, 6, 191-211.	2.8	90
3	An electrochemical immunosensor for cardiac Troponin I using electrospun carboxylated multi-walled carbon nanotube-whiskered nanofibres. <i>Talanta</i> , 2018, 182, 178-186.	2.9	88
4	Do nanoparticles have a future in dermal drug delivery?. <i>Journal of Controlled Release</i> , 2017, 246, 174-182.	4.8	61
5	Soft and flexible material-based affinity sensors. <i>Biotechnology Advances</i> , 2020, 39, 107398.	6.0	60
6	Integrating printed microfluidics with silicon photomultipliers for miniaturised and highly sensitive ATP bioluminescence detection. <i>Biosensors and Bioelectronics</i> , 2018, 99, 464-470.	5.3	58
7	Diffusion Controlled and Temperature Stable Microcapsule Reaction Compartments for High-throughput Microcapsule-PCR. <i>Advanced Functional Materials</i> , 2008, 18, 2930-2937.	7.8	57
8	Biosensor for rapid phosphate monitoring in a sequencing batch reactor (SBR) system. <i>Biosensors and Bioelectronics</i> , 2003, 19, 233-237.	5.3	56
9	Generic Neutravidin Biosensor for Simultaneous Multiplex Detection of MicroRNAs via Electrochemically Encoded Responsive Nanolabels. <i>ACS Sensors</i> , 2019, 4, 326-334.	4.0	56
10	Integrated Printed Microfluidic Biosensors. <i>Trends in Biotechnology</i> , 2019, 37, 1104-1120.	4.9	53
11	An integrated dual functional recognition/amplification bio-label for the one-step impedimetric detection of Micro-RNA-21. <i>Biosensors and Bioelectronics</i> , 2017, 92, 154-161.	5.3	52
12	Processable enzyme-hybrid conductive polymer composites for electrochemical biosensing. <i>Biosensors and Bioelectronics</i> , 2018, 100, 374-381.	5.3	52
13	Electrochemical Bioassay Utilizing Encapsulated Electrochemical Active Microcrystal Biolabels. <i>Analytical Chemistry</i> , 2005, 77, 2835-2841.	3.2	50
14	Matrix-Assisted Colloidosome Reverse-Phase Layer-by-Layer Encapsulating Biomolecules in Hydrogel Microcapsules with Extremely High Efficiency and Retention Stability. <i>Langmuir</i> , 2009, 25, 769-775.	1.6	47
15	Drug Delivery with Topically Applied Nanoparticles: Science Fiction or Reality?. <i>Skin Pharmacology and Physiology</i> , 2013, 26, 227-233.	1.1	42
16	Triggering of drug release of particles in hair follicles. <i>Journal of Controlled Release</i> , 2012, 160, 509-514.	4.8	39
17	Surface-Engineered Contact Lens as an Advanced Theranostic Platform for Modulation and Detection of Viral Infection. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 25487-25494.	4.0	38
18	Novel biosensors for quantitative phytic acid and phytase measurement. <i>Biosensors and Bioelectronics</i> , 2004, 19, 1029-1035.	5.3	36

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19	Protein Particles Formed by Protein Activation and Spontaneous Self-Assembly. <i>Advanced Functional Materials</i> , 2010, 20, 4139-4144.	7.8	35
20	Drug delivery into the skin by degradable particles. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011, 79, 23-27.	2.0	35
21	Modulating Electrode Kinetics for Discrimination of Dopamine by a PEDOT:COOH Interface Doped with Negatively Charged Tricarboxylate. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 34497-34506.	4.0	32
22	Tunable 3D nanofibrous and bio-functionalised PEDOT network explored as a conducting polymer-based biosensor. <i>Biosensors and Bioelectronics</i> , 2020, 159, 112181.	5.3	31
23	Triggered release of model drug from AuNP-doped BSA nanocarriers in hair follicles using IRA radiation. <i>Acta Biomaterialia</i> , 2016, 30, 388-396.	4.1	29
24	Processable and nanofibrous polyaniline:polystyrene-sulphonate (nano-PANI:PSS) for the fabrication of catalyst-free ammonium sensors and enzyme-coupled urea biosensors. <i>Biosensors and Bioelectronics</i> , 2021, 171, 112725.	5.3	29
25	Positively-charged hierarchical PEDOT interface with enhanced electrode kinetics for NADH-based biosensors. <i>Biosensors and Bioelectronics</i> , 2018, 120, 115-121.	5.3	28
26	Conducting Polymer-Reinforced Laser-Irradiated Graphene as a Heterostructured 3D Transducer for Flexible Skin Patch Biosensors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 54456-54465.	4.0	26
27	Structurally responsive oligonucleotide-based single-probe lateral-flow test for detection of miRNA-21 mimics. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 1475-1485.	1.9	25
28	Pure Nanoscale Morphology Effect Enhancing the Energy Storage Characteristics of Processable Hierarchical Polypyrrole. <i>Langmuir</i> , 2015, 31, 11904-11913.	1.6	24
29	Inwards Buildup of Concentric Polymer Layers: A Method for Biomolecule Encapsulation and Microcapsule Encoding. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5189-5193.	7.2	22
30	Bio-PEDOT: Modulating Carboxyl Moieties in Poly(3,4-ethylenedioxythiophene) for Enzyme-Coupled Bioelectronic Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39841-39849.	4.0	22
31	Water-processable polypyrrole microparticle modules for direct fabrication of hierarchical structured electrochemical interfaces. <i>Electrochimica Acta</i> , 2016, 190, 495-503.	2.6	21
32	Biofunctionalized indigo-nanoparticles as biolabels for the generation of precipitated visible signal in immunodipsticks. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3148-3153.	5.3	20
33	Neutravidin biosensor for direct capture of dual-functional biotin-molecular beacon-AuNP probe for sensitive voltammetric detection of microRNA. <i>Sensors and Actuators B: Chemical</i> , 2017, 248, 77-84.	4.0	20
34	Multifactorial modeling and optimization of solution and electrospinning parameters to generate superfine polystyrene nanofibers. <i>Advances in Polymer Technology</i> , 2018, 37, 2743-2755.	0.8	20
35	Fabrication of inflated LbL microcapsules with a "bead-in-a-capsule"™ morphology. <i>Soft Matter</i> , 2009, 5, 4152.	1.2	19
36	Controlled Delivery of Human Cells by Temperature Responsive Microcapsules. <i>Journal of Functional Biomaterials</i> , 2015, 6, 439-453.	1.8	19

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37	Reusable optical bioassay platform with permeability-controlled hydrogel pads for selective saccharide detection. <i>Analytica Chimica Acta</i> , 2008, 607, 204-210.	2.6	18
38	High efficiency single-step biomaterial-based microparticle fabrication via template-directed supramolecular coordination chemistry. <i>Green Chemistry</i> , 2016, 18, 1715-1723.	4.6	18
39	Geometric Flow Control Lateral Flow Immunoassay Devices (GFC-LFIDs): A New Dimension to Enhance Analytical Performance. <i>Research</i> , 2019, 2019, 8079561.	2.8	18
40	Print-and-stick unibody microfluidics coupled surface plasmon resonance (SPR) chip for smartphone imaging SPR (Smart-iSRP). <i>Analytica Chimica Acta</i> , 2022, 1201, 339606.	2.6	18
41	Twinning Lignosulfonate with a Conducting Polymer via Counterion Exchange for Large-Scale Electrical Storage. <i>Advanced Sustainable Systems</i> , 2019, 3, 1900039.	2.7	17
42	Integrated Direct DNA/Protein Patterning and Microfabrication by Focused Ion Beam Milling. <i>Advanced Materials</i> , 2008, 20, 1636-1643.	11.1	16
43	Facile synthesis of highly processable and water dispersible polypyrrole and poly(3,4-ethylenedioxythiophene) microspheres for enhanced supercapacitive performance. <i>European Polymer Journal</i> , 2018, 99, 332-339.	2.6	15
44	Colloid electrochemistry of conducting polymer: towards potential-induced in-situ drug release. <i>Electrochimica Acta</i> , 2017, 228, 407-412.	2.6	14
45	Gradient-dependent release of the model drug TRITC-dextran from FITC-labeled BSA hydrogel nanocarriers in the hair follicles of porcine ear skin. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 116, 12-16.	2.0	14
46	Thermo-rheological responsive microcapsules for time-dependent controlled release of human mesenchymal stromal cells. <i>Biomaterials Science</i> , 2017, 5, 2241-2250.	2.6	13
47	Nanoscale surface engineered living cells with extended substrate spectrum. <i>IET Nanobiotechnology</i> , 2004, 151, 67.	2.1	9
48	Multifunctional protein particles with dual analytical channels for colorimetric enzymatic bioassays and fluorescent immunoassays. <i>Biosensors and Bioelectronics</i> , 2012, 32, 169-176.	5.3	9
49	Bi-functional sulphonate-coupled reduced graphene oxide as an efficient dopant for a conducting polymer with enhanced electrochemical performance. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12829-12839.	2.7	9
50	Integrating an ex-vivo skin biointerface with electrochemical DNA biosensor for direct measurement of the protective effect of UV blocking agents. <i>Biosensors and Bioelectronics</i> , 2019, 128, 159-165.	5.3	8
51	RF Remote Blood Glucose Sensor and a Microfluidic Vascular Phantom for Sensor Validation. <i>Biosensors</i> , 2021, 11, 494.	2.3	8
52	Printable Heterostructured Bioelectronic Interfaces with Enhanced Electrode Reaction Kinetics by Intermicroparticle Network. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 33368-33376.	4.0	7
53	Product-to-intermediate relay achieving complete oxygen reduction reaction (cORR) with Prussian blue integrated nanoporous polymer cathode in fuel cells. <i>Nano Energy</i> , 2020, 78, 105125.	8.2	7
54	Magnetic microsphere sorbent on CaCO ₃ templates: Simple synthesis and efficient extraction of trace carbamate pesticides in fresh produce. <i>Food Chemistry</i> , 2021, 342, 128336.	4.2	7

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55	Bioinspired protein microparticles fabrication by peptide mediated disulfide interchange. RSC Advances, 2014, 4, 11802-11810.	1.7	6
56	Electrochemical performance of nanofibrous highly flexible electrodes enhanced by different structural configurations. Composites Science and Technology, 2018, 155, 81-90.	3.8	6
57	Low-cost and rapid prototyping of integrated electrochemical microfluidic platforms using consumer-grade off-the-shelf tools and materials. Lab on A Chip, 2022, 22, 1779-1792.	3.1	6
58	Integrated Multichannel Electrochemicalâ€“Quartz Crystal Microbalance Sensors for Liquid Sensing. IEEE Access, 2020, 8, 3668-3676.	2.6	5
59	Probing Zincâ€“Proteinâ€“Chelant Interactions Using Gold Nanoparticles Functionalized with Zincâ€“Responsive Polypeptides. Particle and Particle Systems Characterization, 2014, 31, 1127-1133.	1.2	4
60	Evaluation on the Intrinsic Physicoelectrochemical Attributes and Engineering of Micro-, Nano-, and 2D-Structured Allotropic Carbon-Based Papers for Flexible Electronics. Langmuir, 2021, , .	1.6	4
61	Real time observation of diffusion and bioaffinity binding processes in single polyelectrolyte-coated microcapsules: A fluorescence-based approach. Colloids and Surfaces B: Biointerfaces, 2007, 60, 125-130.	2.5	3
62	Potentialâ€“modulated Electrocapacitive Properties of Soft Microstructured Polypyrrole. Electroanalysis, 2017, 29, 203-207.	1.5	3
63	Fabrication of Protein Microparticles and Microcapsules with Biomolecular Tools. Zeitschrift Fur Physikalische Chemie, 2018, 232, 759-771.	1.4	3
64	Intercalating methyl blue to molecular beacon for sensitive detection of salivary TNF-Î± towards early diagnosis of oral cancer. Sensors & Diagnostics, 0, , .	1.9	3
65	Precise and rapid solvent-assisted geometric protein self-patterning with submicron spatial resolution for scalable fabrication of microelectronic biosensors. Biosensors and Bioelectronics, 2021, 177, 112968.	5.3	2
66	Theranostic Contact Lens for Modulation and Detection of Viral Infection Richard Newell. Procedia Technology, 2017, 27, 16.	1.1	1
67	Multifactorial design of poly(lactide-co-glycolic acid) capsules with various release properties for differently sized filling agents. Journal of Applied Polymer Science, 2013, 130, 4219-4228.	1.3	0
68	Functional Microparticles â€“ LEGOâ€“for Printable Bioelectronics Richard Newell. Procedia Technology, 2017, 27, 3.	1.1	0
69	Spatiotemporal extracellular matrix modeling for in situ cell niche studies. Stem Cells, 2021, 39, 1751-1765.	1.4	0