Chen-Yu Tsao

List of Publications by Year in descending order

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257450 276875 1,766 51 24 41 citations h-index g-index papers 52 52 52 1702 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	Interactive Materials for Bidirectional Redoxâ€Based Communication. Advanced Materials, 2021, 33, e2007758.	21.0	14
2	Single-Step Synthesis of Alginate Microgels Enveloped with a Covalent Polymeric Shell: A Simple Way to Protect Encapsulated Cells. ACS Applied Materials & Samp; Interfaces, 2021, 13, 18432-18442.	8.0	19
3	Simple, rapidly electroassembled thiolated PEGâ€based sensor interfaces enable rapid interrogation of antibody titer and glycosylation. Biotechnology and Bioengineering, 2021, 118, 2744-2758.	3.3	8
4	A Redox-Based Autoinduction Strategy to Facilitate Expression of 5xCys-Tagged Proteins for Electrobiofabrication. Frontiers in Microbiology, 2021, 12, 675729.	3. 5	5
5	Parsed synthesis of pyocyanin via co-culture enables context-dependent intercellular redox communication. Microbial Cell Factories, 2021, 20, 215.	4.0	5
6	Mediated Electrochemistry to Mimic Biology's Oxidative Assembly of Functional Matrices. Advanced Functional Materials, 2020, 30, 2001776.	14.9	17
7	Bacterial co-culture with cell signaling translator and growth controller modules for autonomously regulated culture composition. Nature Communications, 2019, 10, 4129.	12.8	91
8	Redox-Based Synthetic Biology Enables Electrochemical Detection of the Herbicides Dicamba and Roundup via Rewired <i>Escherichia coli</i> . ACS Sensors, 2019, 4, 1180-1184.	7.8	29
9	Coupling Self-Assembly Mechanisms to Fabricate Molecularly and Electrically Responsive Films. Biomacromolecules, 2019, 20, 969-978.	5.4	14
10	Incorporating LsrK Alâ€2 quorum quenching capability in a functionalized biopolymer capsule. Biotechnology and Bioengineering, 2018, 115, 278-289.	3.3	12
11	Selective assembly and functionalization of miniaturized redox capacitor inside microdevices for microbial toxin and mammalian cell cytotoxicity analyses. Lab on A Chip, 2018, 18, 3578-3587.	6.0	24
12	Engineering bacterial motility towards hydrogen-peroxide. PLoS ONE, 2018, 13, e0196999.	2.5	31
13	Focusing quorum sensing signalling by nanoâ€magnetic assembly. Environmental Microbiology, 2018, 20, 2585-2597.	3.8	7
14	Catechol-chitosan redox capacitor for added amplification in electrochemical immunoanalysis. Colloids and Surfaces B: Biointerfaces, 2018, 169, 470-477.	5.0	15
15	Electrodeposition of a magnetic and redox-active chitosan film for capturing and sensing metabolic active bacteria. Carbohydrate Polymers, 2018, 195, 505-514.	10.2	21
16	Biofabricating Functional Soft Matter Using Protein Engineering to Enable Enzymatic Assembly. Bioconjugate Chemistry, 2018, 29, 1809-1822.	3 . 6	14
17	An immune magnetic nano-assembly for specifically amplifying intercellular quorum sensing signals. Colloids and Surfaces B: Biointerfaces, 2018, 172, 197-206.	5.0	6
18	Connecting Biology to Electronics: Molecular Communication via Redox Modality. Advanced Healthcare Materials, 2017, 6, 1700789.	7.6	40

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19	A simple and reusable bilayer membrane-based microfluidic device for the study of gradient-mediated bacterial behaviors. Biomicrofluidics, 2017, 11, 044114.	2.4	6
20	Using a Redox Modality to Connect Synthetic Biology to Electronics: Hydrogelâ€Based Chemoâ€Electro Signal Transduction for Molecular Communication. Advanced Healthcare Materials, 2017, 6, 1600908.	7.6	44
21	Conferring biological activity to native spider silk: A biofunctionalized proteinâ€based microfiber. Biotechnology and Bioengineering, 2017, 114, 83-95.	3.3	20
22	Quorum Sensing Desynchronization Leads to Bimodality and Patterned Behaviors. PLoS Computational Biology, 2016, 12, e1004781.	3.2	26
23	Data on biochemical fluxes generated from biofabricated enzyme complexes assembled through engineered tags and microbial transglutaminase. Data in Brief, 2016, 8, 1031-1035.	1.0	4
24	Modular construction of multi-subunit protein complexes using engineered tags and microbial transglutaminase. Metabolic Engineering, 2016, 38, 1-9.	7.0	17
25	Directed assembly of a bacterial quorum. ISME Journal, 2016, 10, 158-169.	9.8	44
26	Electrochemical Measurement of the \hat{l}^2 -Galactosidase Reporter from Live Cells: A Comparison to the Miller Assay. ACS Synthetic Biology, 2016, 5, 28-35.	3.8	44
27	Distal modulation of bacterial cell–cell signalling in a synthetic ecosystem using partitioned microfluidics. Lab on A Chip, 2015, 15, 1842-1851.	6.0	34
28	Functionalizing Soft Matter for Molecular Communication. ACS Biomaterials Science and Engineering, 2015, 1, 320-328.	5.2	24
29	Nano-guided cell networks as conveyors of molecular communication. Nature Communications, 2015, 6, 8500.	12.8	33
30	Evolved Quorum Sensing Regulator, LsrR, for Altered Switching Functions. ACS Synthetic Biology, 2014, 3, 210-219.	3.8	28
31	Developing a cell-based sensor for the detection of Autoinducer-2. , 2013, , .		0
32	Optically clear alginate hydrogels for spatially controlled cell entrapment and culture at microfluidic electrode surfaces. Lab on A Chip, 2013, 13, 1854.	6.0	39
33	Autonomous bacterial localization and gene expression based on nearby cell receptor density. Molecular Systems Biology, 2013, 9, 636.	7.2	65
34	Development of the quorum sensing biotechnological toolbox. Current Opinion in Chemical Engineering, 2012, 1, 396-402.	7.8	11
35	Construction of a cell-based sensor for the detection of autoinducer-2., 2012,,.		0
36	Biofabricating Multifunctional Soft Matter with Enzymes and Stimuliâ€Responsive Materials. Advanced Functional Materials, 2012, 22, 3004-3012.	14.9	54

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37	Integrated biofabrication for electroâ€addressed inâ€film bioprocessing. Biotechnology Journal, 2012, 7, 428-439.	3.5	13
38	Biofabrication of stratified biofilm mimics for observation and control of bacterial signaling. Biomaterials, 2012, 33, 5136-5143.	11.4	46
39	Electroaddressing Functionalized Polysaccharides as Model Biofilms for Interrogating Cell Signaling. Advanced Functional Materials, 2012, 22, 519-528.	14.9	61
40	Biocompatible multi-address 3D cell assembly in microfluidic devices using spatially programmable gel formation. Lab on A Chip, 2011, 11, 2316.	6.0	68
41	LuxS Coexpression Enhances Yields of Recombinant Proteins in <i>Escherichia coli</i> in Part through Posttranscriptional Control of GroEL. Applied and Environmental Microbiology, 2011, 77, 2141-2152.	3.1	18
42	Autonomous induction of recombinant proteins by minimally rewiring native quorum sensing regulon of E. coli. Metabolic Engineering, 2010, 12, 291-297.	7.0	125
43	Cross Species Quorum Quenching Using a Native Al-2 Processing Enzyme. ACS Chemical Biology, 2010, 5, 223-232.	3.4	103
44	Biological Nanofactories Target and Activate Epithelial Cell Surfaces for Modulating Bacterial Quorum Sensing and Interspecies Signaling. ACS Nano, 2010, 4, 6923-6931.	14.6	21
45	Biological nanofactories facilitate spatially selective capture and manipulation of quorum sensing bacteria in a bioMEMS device. Lab on A Chip, 2010, 10, 1128.	6.0	35
46	Electroaddressing of Cell Populations by Coâ€Deposition with Calcium Alginate Hydrogels. Advanced Functional Materials, 2009, 19, 2074-2080.	14.9	115
47	Biofabrication of antibodies and antigens via IgGâ€binding domain engineered with activatable pentatyrosine proâ€ŧag. Biotechnology and Bioengineering, 2009, 103, 231-240.	3.3	30
48	Chitosan Fibers: Versatile Platform for Nickel-Mediated Protein Assembly. Biomacromolecules, 2008, 9, 1417-1423.	5.4	19
49	Magnetic nanofactories: Localized synthesis and delivery of quorum-sensing signaling molecule autoinducer-2 to bacterial cell surfaces. Metabolic Engineering, 2007, 9, 228-239.	7.0	30
50	A stochastic model of Escherichia coli Alâ€⊋ quorum signal circuit reveals alternative synthesis pathways. Molecular Systems Biology, 2006, 2, 67.	7.2	53
51	Cyclic AMP (cAMP) and cAMP Receptor Protein Influence both Synthesis and Uptake of Extracellular Autoinducer 2 in Escherichia coli. Journal of Bacteriology, 2005, 187, 2066-2076.	2.2	164