

Hsuan-Chen Wu

List of Publications by Citations

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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.

47
papers

1,323
citations

22
h-index

36
g-index

49
ext. papers

1,510
ext. citations

7.4
avg, IF

4.11
L-index

#	Paper	IF	Citations
47	Autonomous induction of recombinant proteins by minimally rewiring native quorum sensing regulon of <i>E. coli</i> . <i>Metabolic Engineering</i> , 2010 , 12, 291-7	9.7	110
46	Electronic control of gene expression and cell behaviour in <i>Escherichia coli</i> through redox signalling. <i>Nature Communications</i> , 2017 , 8, 14030	17.4	88
45	Engineered biological nanofactories trigger quorum sensing response in targeted bacteria. <i>Nature Nanotechnology</i> , 2010 , 5, 213-7	28.7	78
44	Fluorescence enhancement by surface gratings. <i>Optics Express</i> , 2006 , 14, 10825-30	3.3	76
43	Chitosan to Connect Biology to Electronics: Fabricating the Bio-Device Interface and Communicating Across This Interface. <i>Polymers</i> , 2015 , 7, 1-46	4.5	74
42	Giant wood spider <i>Nephila pilipes</i> alters silk protein in response to prey variation. <i>Journal of Experimental Biology</i> , 2005 , 208, 1053-61	3	72
41	Autonomous bacterial localization and gene expression based on nearby cell receptor density. <i>Molecular Systems Biology</i> , 2013 , 9, 636	12.2	56
40	Biocompatible multi-address 3D cell assembly in microfluidic devices using spatially programmable gel formation. <i>Lab on A Chip</i> , 2011 , 11, 2316-8	7.2	56
39	Electroaddressing Functionalized Polysaccharides as Model Biofilms for Interrogating Cell Signaling. <i>Advanced Functional Materials</i> , 2012 , 22, 519-528	15.6	52
38	Biofabricating Multifunctional Soft Matter with Enzymes and Stimuli-Responsive Materials. <i>Advanced Functional Materials</i> , 2012 , 22, 3004-3012	15.6	50
37	An ALD aluminum oxide passivated Surface Acoustic Wave sensor for early biofilm detection. <i>Sensors and Actuators B: Chemical</i> , 2012 , 163, 136-145	8.5	44
36	Biofabrication of stratified biofilm mimics for observation and control of bacterial signaling. <i>Biomaterials</i> , 2012 , 33, 5136-43	15.6	39
35	Directed assembly of a bacterial quorum. <i>ISME Journal</i> , 2016 , 10, 158-69	11.9	35
34	Optically clear alginate hydrogels for spatially controlled cell entrapment and culture at microfluidic electrode surfaces. <i>Lab on A Chip</i> , 2013 , 13, 1854-8	7.2	33
33	Effect of electrical energy on the efficacy of biofilm treatment using the bioelectric effect. <i>Npj Biofilms and Microbiomes</i> , 2015 , 1, 15016	8.2	30
32	Accessing biology's toolbox for the mesoscale biofabrication of soft matter. <i>Soft Matter</i> , 2013 , 9, 6019	3.6	30
31	Biofabrication of antibodies and antigens via IgG-binding domain engineered with activatable pentatyrosine pro-tag. <i>Biotechnology and Bioengineering</i> , 2009 , 103, 231-40	4.9	29

30	Lattice deformation and thermal stability of crystals in spider silk. <i>International Journal of Biological Macromolecules</i> , 2004 , 34, 325-31	7.9	28
29	Distal modulation of bacterial cell-cell signalling in a synthetic ecosystem using partitioned microfluidics. <i>Lab on A Chip</i> , 2015 , 15, 1842-51	7.2	26
28	Nano-guided cell networks as conveyors of molecular communication. <i>Nature Communications</i> , 2015 , 6, 8500	17.4	25
27	Colloidal Properties of Nanoerythroosomes Derived from Bovine Red Blood Cells. <i>Langmuir</i> , 2016 , 32, 171-9	4	23
26	Chitosan biotinylation and electrodeposition for selective protein assembly. <i>Macromolecular Bioscience</i> , 2008 , 8, 451-7	5.5	23
25	Evolved Quorum sensing regulator, LsrR, for altered switching functions. <i>ACS Synthetic Biology</i> , 2014 , 3, 210-9	5.7	22
24	Functionalizing Soft Matter for Molecular Communication. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 320-328	5.5	21
23	Electroaddressing agarose using Fmoc-phenylalanine as a temporary scaffold. <i>Langmuir</i> , 2011 , 27, 7380-4		20
22	Air bubble-initiated biofabrication of freestanding, semi-permeable biopolymer membranes in PDMS microfluidics. <i>Biochemical Engineering Journal</i> , 2014 , 89, 2-9	4.2	19
21	Quorum Sensing Desynchronization Leads to Bimodality and Patterned Behaviors. <i>PLoS Computational Biology</i> , 2016 , 12, e1004781	5	19
20	Conferring biological activity to native spider silk: A biofunctionalized protein-based microfiber. <i>Biotechnology and Bioengineering</i> , 2017 , 114, 83-95	4.9	17
19	Chitosan fibers: versatile platform for nickel-mediated protein assembly. <i>Biomacromolecules</i> , 2008 , 9, 1417-23	6.9	17
18	Rational design of a controller cell to manipulate protein and phenotype expression. <i>Metabolic Engineering</i> , 2015 , 30, 61-68	9.7	16
17	Engineering bacterial motility towards hydrogen-peroxide. <i>PLoS ONE</i> , 2018 , 13, e0196999	3.7	16
16	Bioelectronic control of a microbial community using surface-assembled electrogenetic cells to route signals. <i>Nature Nanotechnology</i> , 2021 , 16, 688-697	28.7	14
15	Controlling localization of Escherichia coli populations using a two-part synthetic motility circuit: An accelerator and brake. <i>Biotechnology and Bioengineering</i> , 2017 , 114, 2883-2895	4.9	12
14	Electrospun Hydrophobic Polyaniline/Silk Fibroin Electrochromic Nanofibers with Low Electrical Resistance. <i>Polymers</i> , 2020 , 12,	4.5	12
13	Integrated biofabrication for electro-addressed in-film bioprocessing. <i>Biotechnology Journal</i> , 2012 , 7, 428-39	5.6	10

12	Biofabricating Functional Soft Matter Using Protein Engineering to Enable Enzymatic Assembly. <i>Bioconjugate Chemistry</i> , 2018 , 29, 1809-1822	6.3	8
11	Tuning cell cycle of insect cells for enhanced protein production. <i>Journal of Biotechnology</i> , 2013 , 168, 55-61	3.7	7
10	A simple and reusable bilayer membrane-based microfluidic device for the study of gradient-mediated bacterial behaviors. <i>Biomicrofluidics</i> , 2017 , 11, 044114	3.2	5
9	Gene Silencing in Insect Cells Using RNAi. <i>Methods in Molecular Biology</i> , 2016 , 1350, 469-76	1.4	3
8	Plasmid-encoded protein attenuates Escherichia coli swimming velocity and cell growth, not reprogrammed regulatory functions. <i>Biotechnology Progress</i> , 2019 , 35, e2778	2.8	2
7	Hydrothermal Effect on Mechanical Properties of Spidroin. <i>Polymers</i> , 2020 , 12,	4.5	2
6	Fluorescence enhancement by surface gratings 2006 ,		1
5	Tubular Bioreactor for Probing Baculovirus Infection and Protein Production. <i>Methods in Molecular Biology</i> , 2016 , 1350, 461-7	1.4	1
4	Biofabricating a Silk Scaffold as a Functional Microbial Trap. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 7041-7050	5.5	1
3	A Facile Measurement for Monitoring Dragline Silk Dope Concentration in upon Spinning. <i>Materials</i> , 2018 , 11,	3.5	1
2	Localized Proteolysis for the Construction of Intracellular Asymmetry in. <i>ACS Synthetic Biology</i> , 2021 , 10, 1830-1836	5.7	0
1	Evaluating Baculovirus Infection Using Green Fluorescent Protein and Variants. <i>Methods in Molecular Biology</i> , 2016 , 1350, 447-59	1.4	