Chen-Yu Huang

List of Publications by Year
in descending order

38	1,024	623188	414034
papers	citations	14 h-index	32 g-index

38	38	38	1945
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biomaterial-Free Three-Dimensional Bioprinting of Cardiac Tissue using Human Induced Pluripotent Stem Cell Derived Cardiomyocytes. Scientific Reports, 2017, 7, 4566.	1.6	197
2	3D bioprinting using stem cells. Pediatric Research, 2018, 83, 223-231.	1.1	179
3	Comparison of cell behavior on pva/pva-gelatin electrospun nanofibers with random and aligned configuration. Scientific Reports, 2016, 6, 37960.	1.6	110
4	Enhancement of human iPSC-derived cardiomyocyte maturation by chemical conditioning in a 3D environment. Journal of Molecular and Cellular Cardiology, 2020, 138, 1-11.	0.9	80
5	Role of virtual reality in congenital heart disease. Congenital Heart Disease, 2018, 13, 357-361.	0.0	67
6	3D and 4D Bioprinting of the Myocardium: Current Approaches, Challenges, and Future Prospects. BioMed Research International, 2018, 2018, 1-11.	0.9	65
7	Tissue engineered vascular grafts: current state of the field. Expert Review of Medical Devices, 2017, 14, 383-392.	1.4	61
8	In vivo therapeutic applications of cell spheroids. Biotechnology Advances, 2018, 36, 494-505.	6.0	58
9	Anisotropic Wettability of Biomimetic Micro/Nano Dualâ€Scale Inclined Cones Fabricated by Ferrofluidâ€Molding Method. Advanced Functional Materials, 2015, 25, 2670-2676.	7.8	33
10	Rapid Prototyping of an Open-Surface Microfluidic Platform Using Wettability-Patterned Surfaces Prepared by an Atmospheric-Pressure Plasma Jet. ACS Omega, 2019, 4, 16292-16299.	1.6	19
11	Single cell detection using 3D magnetic rolled-up structures. Lab on A Chip, 2013, 13, 4225.	3.1	17
12	Compare Analysis for the Nanotoxicity Effects of Different Amounts of Endocytic Iron Oxide Nanoparticles at Single Cell Level. PLoS ONE, 2014, 9, e96550.	1.1	16
13	Anti-integrin and integrin detection using the heat dissipation of surface plasmon resonance. Applied Physics Letters, 2013, 102, .	1.5	15
14	Concentric Magnetic Structures for Magnetophoretic Bead Collection, Cell Trapping and Analysis of Cell Morphological Changes Caused by Local Magnetic Forces. PLoS ONE, 2015, 10, e0135299.	1.1	14
15	pH-responsive magnetic micelles gelatin-g-poly(NIPAAm-co-DMAAm-co-UA)-g-dextran/Fe₃O₄ as a hydrophilic drug carrier. RSC Advances, 2017, 7, 28207-28212.	1.7	9
16	Cell Culture Arrangement Using Ferromagnetic Diamond-Shaped Thin Films. IEEE Transactions on Magnetics, 2013, 49, 3453-3455.	1.2	8
17	Magnetic Micro/Nano Structures for Biological Manipulation. Spin, 2016, 06, 1650005.	0.6	8
18	Dextran-g-lauric acid as IKK complex inhibitor carrier. RSC Advances, 2017, 7, 56247-56255.	1.7	8

#	Article	IF	Citations
19	Comparing the magnetic property of shell thickness controlled of Ag-Ni core-shell nanoparticles. Journal of Applied Physics, 2014, 115, 17B528.	1.1	7
20	Surface Roughness Effects on Magnetization Reversal of Magnetic Ring Elements. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	6
21	Thermoelectric Property of Nickel Nanowires Enhanced by Resistance. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	6
22	Cell Patterning Using Magnetic Concentric Rectangular Thin Films for Biochip Application. IEEE Transactions on Magnetics, 2013, 49, 3496-3499.	1.2	5
23	Study of polyvinyl alcohol nanofibrous membrane by electrospinning as a magnetic nanoparticle delivery approach. Journal of Applied Physics, 2014, 115, 17B908.	1.1	5
24	Honeycomb-shaped magnetic multilayer thin films for cell trapping. RSC Advances, 2016, 6, 24299-24303.	1.7	4
25	A Net Mold-based Method of Scaffold-free Three-Dimensional Cardiac Tissue Creation. Journal of Visualized Experiments, 2018, , .	0.2	4
26	Surface plasmon induced enhancement with magneto-optical layer. Journal of Applied Physics, 2014, 115, 17E313.	1.1	3
27	Optimization of Magnetic Labeling Process for Intracellular Hyperthermia in Cervical Cancer Cells. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	3
28	Cell culture arrays using micron-sized ferromagnetic ring-shaped thin films. Journal of Applied Physics, 2015, 117, 17B309.	1.1	3
29	Fabrication and Mechanical Properties Measurements of 3D Microtissues for the Study of Cellâ€“Matrix Interactions. Methods in Molecular Biology, 2018, 1722, 303-328.	0.4	3
30	Self-Assembled Hexagonal Superparamagnetic Cone Structures for Fabrication of Cell Cluster Arrays. ACS Applied Materials & Interfaces, 2021, 13, 10667-10673.	4.0	3
31	Alternating magnetic field assisted magnetization reversal in ferromagnetic antidot. Journal of Applied Physics, 2014, 115, 17B906.	1.1	2
32	Biomimetic Surfaces: Anisotropic Wettability of Biomimetic Micro/Nano Dualâ€Scale Inclined Cones Fabricated by Ferrofluidâ€Molding Method (Adv. Funct. Mater. 18/2015). Advanced Functional Materials, 2015, 25, 2669-2669.	7.8	2
33	Cell Trapping by Local Magnetic Force Using Sinewave Magnetic Structure. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	2
34	Magnetic cantilever actuator with sharpened magnetic thin film ellipses. Journal of Applied Physics, 2015, 117, 17B740.	1.1	2
35	Intracellular Nanoparticle-Mediated Hyperthermia of Microscopic Tumours. , 2016, , .		0
36	Cell Manipulation Using Magnetic Honeycomb Structure. , 2016, , .		0

#	Article	IF	Citations
37	New Approach for Quantitative Single-Cell Analysis of Magnetic Labelling Efficacy. , 2016, , .		0
38	Improvement of Maturation State of Human Induced Pluripotent Stem Cell-Derived 3D Cardiac Microtissues by Defined Chemical Factors. Biophysical Journal, 2019, 116, 464a-465a.	0.2	0