Peter Tseng

List of Publications by Year
in descending order

42	1,646	331670 21	289244 40
papers	citations	h-index	g-index

45	45	45	3256
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multiscale, Nanoâ€to Mesostructural Engineering of Silk Biopolymerâ€Interlayer Biosensors for Continuous Comonitoring of Nutrients in Food. Advanced Materials Technologies, 2022, 7, 2100666.	5.8	3
2	Programmable Multiwavelength Radio Frequency Spectrometry of Chemophysical Environments through an Adaptable Network of Flexible and Environmentally Responsive, Passive Wireless Elements. Small Science, 2022, 2, .	9.9	4
3	HEAR: Fog-Enabled Energy-Aware Online Human Eating Activity Recognition. IEEE Internet of Things Journal, 2021, 8, 860-868.	8.7	19
4	Paintâ€On Epidermal Electronics for Onâ€Demand Sensors and Circuits. Advanced Electronic Materials, 2021, 7, .	5.1	9
5	Ultra-Sensitive Radio Frequency Biosensor at an Exceptional Point of Degeneracy Induced by Time Modulation. IEEE Sensors Journal, 2021, 21, 7250-7259.	4.7	13
6	Microelectronicsâ€Free, Augmented Telemetry from Bodyâ€Worn Passive Wireless Sensors. Advanced Materials Technologies, 2021, 6, 2001127.	5.8	8
7	Wireless Qi-Powered, Multinodal and Multisensory Body Area Network for Mobile Health. IEEE Internet of Things Journal, 2021, 8, 7600-7609.	8.7	16
8	Fluidic Infiltrative Assembly of 3D Hydrogel with Heterogeneous Composition and Function. Advanced Functional Materials, 2021, 31, 2103288.	14.9	9
9	Textile-integrated metamaterials for near-field multibody area networks. Nature Electronics, 2021, 4, 808-817.	26.0	54
10	Feature Augmented Hybrid CNN for Stress Recognition Using Wrist-based Photoplethysmography Sensor. , 2021, 2021, 2374-2377.		11
11	Passive and wireless, implantable glucose sensing with phenylboronic acid hydrogel-interlayer RF resonators. Biosensors and Bioelectronics, 2020, 151, 112004.	10.1	53
12	NEWERTRACK: ML-Based Accurate Tracking of In-Mouth Nutrient Sensors Position Using Spectrum-Wide Information. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 3833-3841.	2.7	6
13	Multiâ€Functional Hydrogelâ€Interlayer RF/NFC Resonators as a Versatile Platform for Passive and Wireless Biosensing. Advanced Electronic Materials, 2020, 6, 1901311.	5.1	33
14	Selective Manipulation and Trapping of Magnetically Barcoded Materials. Advanced Materials Interfaces, 2019, 6, 1901312.	3.7	1
15	Functional, RFâ€Trilayer Sensors for Toothâ€Mounted, Wireless Monitoring of the Oral Cavity and Food Consumption. Advanced Materials, 2018, 30, e1703257.	21.0	146
16	Elastomeric sensor surfaces for high-throughput single-cell force cytometry. Nature Biomedical Engineering, 2018, 2, 124-137.	22.5	47
17	Programmable Hydrogel Ionic Circuits for Biologically Matched Electronic Interfaces. Advanced Materials, 2018, 30, e1800598.	21.0	98
18	Directed assembly of bio-inspired hierarchical materials with controlled nanofibrillar architectures. Nature Nanotechnology, 2017, 12, 474-480.	31.5	134

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19	Evaluation of Silk Inverse Opals for â€œSmartâ€•Tissue Culture. ACS Omega, 2017, 2, 470-477.	3.5	13
20	High-throughput physical phenotyping of cell differentiation. Microsystems and Nanoengineering, 2017, 3, 17013.	7.0	57
21	Modulation of Multiscale 3D Lattices through Conformational Control: Painting Silk Inverse Opals with Water and Light. Advanced Materials, 2017, 29, 1702769.	21.0	83
22	Quantitative Magnetic Separation of Particles and Cells Using Gradient Magnetic Ratcheting. Small, 2016, 12, 1891-1899.	10.0	41
23	Multiparameter mechanical and morphometric screening of cells. Scientific Reports, 2016, 6, 37863.	3.3	44
24	Bio-functionalized silk hydrogel microfluidic systems. Biomaterials, 2016, 93, 60-70.	11.4	101
25	Direct Gradient Photolithography of Photodegradable Hydrogels with Patterned Stiffness Control with Submicrometer Resolution. ACS Biomaterials Science and Engineering, 2016, 2, 1309-1318.	5.2	60
26	Silk Fibroinâ€Carbon Nanotube Composite Electrodes for Flexible Biocatalytic Fuel Cells. Advanced Electronic Materials, 2016, 2, 1600190.	5.1	19
27	Flexible and Stretchable Micromagnet Arrays for Tunable Biointerfacing. Advanced Materials, 2015, 27, 1083-1089.	21.0	20
28	Engineering Cortical Neuron Polarity with Nanomagnets on a Chip. ACS Nano, 2015, 9, 3664-3676.	14.6	49
29	Metallization and Biopatterning on Ultra-Flexible Substrates via Dextran Sacrificial Layers. PLoS ONE, 2014, 9, e106091.	2.5	25
30	Substrates with Patterned Extracellular Matrix and Subcellular Stiffness Gradients Reveal Local Biomechanical Responses. Advanced Materials, 2014, 26, 1242-1247.	21.0	43
31	Advances in high-throughput single-cell microtechnologies. Current Opinion in Biotechnology, 2014, 25, 114-123.	6.6	86
32	Preparing Substrates Encoding Cell Patterning and Localized Intracellular Magnetic Particle Stimulus for High-Throughput Experimentation. Methods in Cell Biology, 2014, 120, 201-214.	1.1	2
33	Research highlights: microfluidics meets big data. Lab on A Chip, 2014, 14, 828.	6.0	8
34	Research highlights: microtechnologies for engineering the cellular environment. Lab on A Chip, 2014, 14, 1226.	6.0	11
35	Research highlights: printing the future of microfabrication. Lab on A Chip, 2014, 14, 1491.	6.0	64
36	Research highlights: microfluidics and magnets. Lab on A Chip, 2014, 14, 2882-2886.	6.0	12

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37	Magnetic nanoparticleâ€“mediated massively parallel mechanical modulation of single-cell behavior. Nature Methods, 2012, 9, 1113-1119.	19.0	168
38	High-Performance Lateral-Actuating Magnetic MEMS Switch. Journal of Microelectromechanical Systems, 2011, 20, 842-851.	2.5	23
39	Dynamic Manipulation and Precision Localization of Nanoparticles Internal to Cells. , 2010, , .		0
40	Intracellular patterning of internalized magnetic fluorescent nanoparticles. , 2009, 2009, 5444-7.		1
41	Rapid and Dynamic Intracellular Patterning of Cell-Internalized Magnetic Fluorescent Nanoparticles. Nano Letters, 2009, 9, 3053-3059.	9.1	40
42	CMOS-compatible back-end process for in-plane actuating ferromagnetic MEMS. , 2009, , .		4