Peter Tseng

List of Publications by Year
in descending order

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42 papers	1,646 citations	331670 21 h-index	289244 40 g-index
45 all docs	45 docs citations	45 times ranked	3256 citing authors

#	Article	IF	Citations
1	Magnetic nanoparticleâ€“mediated massively parallel mechanical modulation of single-cell behavior. Nature Methods, 2012, 9, 1113-1119.	19.0	168
2	Functional, RFâ€Trilayer Sensors for Toothâ€Mounted, Wireless Monitoring of the Oral Cavity and Food Consumption. Advanced Materials, 2018, 30, e1703257.	21.0	146
3	Directed assembly of bio-inspired hierarchical materials with controlled nanofibrillar architectures. Nature Nanotechnology, 2017, 12, 474-480.	31.5	134
4	Bio-functionalized silk hydrogel microfluidic systems. Biomaterials, 2016, 93, 60-70.	11.4	101
5	Programmable Hydrogel Ionic Circuits for Biologically Matched Electronic Interfaces. Advanced Materials, 2018, 30, e1800598.	21.0	98
6	Advances in high-throughput single-cell microtechnologies. Current Opinion in Biotechnology, 2014, 25, 114-123.	6.6	86
7	Modulation of Multiscale 3D Lattices through Conformational Control: Painting Silk Inverse Opals with Water and Light. Advanced Materials, 2017, 29, 1702769.	21.0	83
8	Research highlights: printing the future of microfabrication. Lab on A Chip, 2014, 14, 1491.	6.0	64
9	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
10	High-throughput physical phenotyping of cell differentiation. Microsystems and Nanoengineering, 2017, 3, 17013.	7.0	57
11	Textile-integrated metamaterials for near-field multibody area networks. Nature Electronics, 2021, 4, 808-817.	26.0	54
12	Passive and wireless, implantable glucose sensing with phenylboronic acid hydrogel-interlayer RF resonators. Biosensors and Bioelectronics, 2020, 151, 112004.	10.1	53
13	Engineering Cortical Neuron Polarity with Nanomagnets on a Chip. ACS Nano, 2015, 9, 3664-3676.	14.6	49
14	Elastomeric sensor surfaces for high-throughput single-cell force cytometry. Nature Biomedical Engineering, 2018, 2, 124-137.	22.5	47
15	Multiparameter mechanical and morphometric screening of cells. Scientific Reports, 2016, 6, 37863.	3.3	44
16	Substrates with Patterned Extracellular Matrix and Subcellular Stiffness Gradients Reveal Local Biomechanical Responses. Advanced Materials, 2014, 26, 1242-1247.	21.0	43
17	Quantitative Magnetic Separation of Particles and Cells Using Gradient Magnetic Ratcheting. Small, 2016, 12, 1891-1899.	10.0	41
18	Rapid and Dynamic Intracellular Patterning of Cell-Internalized Magnetic Fluorescent Nanoparticles. Nano Letters, 2009, 9, 3053-3059.	9.1	40

#	Article	IF	Citations
19	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
20	Metallization and Biopatterning on Ultra-Flexible Substrates via Dextran Sacrificial Layers. PLoS ONE, 2014, 9, e106091.	2.5	25
21	High-Performance Lateral-Actuating Magnetic MEMS Switch. Journal of Microelectromechanical Systems, 2011, 20, 842-851.	2.5	23
22	Flexible and Stretchable Micromagnet Arrays for Tunable Biointerfacing. Advanced Materials, 2015, 27, 1083-1089.	21.0	20
23	Silk Fibroinâ€Carbon Nanotube Composite Electrodes for Flexible Biocatalytic Fuel Cells. Advanced Electronic Materials, 2016, 2, 1600190.	5.1	19
24	HEAR: Fog-Enabled Energy-Aware Online Human Eating Activity Recognition. IEEE Internet of Things Journal, 2021, 8, 860-868.	8.7	19
25	Wireless Qi-Powered, Multinodal and Multisensory Body Area Network for Mobile Health. IEEE Internet of Things Journal, 2021, 8, 7600-7609.	8.7	16
26	Evaluation of Silk Inverse Opals for â€œSmartâ€•Tissue Culture. ACS Omega, 2017, 2, 470-477.	3.5	13
27	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
28	Research highlights: microfluidics and magnets. Lab on A Chip, 2014, 14, 2882-2886.	6.0	12
29	Research highlights: microtechnologies for engineering the cellular environment. Lab on A Chip, 2014, 14, 1226.	6.0	11
30	Feature Augmented Hybrid CNN for Stress Recognition Using Wrist-based Photoplethysmography Sensor. , 2021, 2021, 2374-2377.		11
31	Paintâ€On Epidermal Electronics for Onâ€Demand Sensors and Circuits. Advanced Electronic Materials, 2021, 7, .	5.1	9
32	Fluidic Infiltrative Assembly of 3D Hydrogel with Heterogeneous Composition and Function. Advanced Functional Materials, 2021, 31, 2103288.	14.9	9
33	Research highlights: microfluidics meets big data. Lab on A Chip, 2014, 14, 828.	6.0	8
34	Microelectronicsâ€Free, Augmented Telemetry from Bodyâ€Worn Passive Wireless Sensors. Advanced Materials Technologies, 2021, 6, 2001127.	5.8	8
35	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
36	CMOS-compatible back-end process for in-plane actuating ferromagnetic MEMS. , 2009, , .		4

#	Article	IF	Citations
37	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
38	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
39	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
40	Intracellular patterning of internalized magnetic fluorescent nanoparticles. , 2009, 2009, 5444-7.		1
41	Selective Manipulation and Trapping of Magnetically Barcoded Materials. Advanced Materials Interfaces, 2019, 6, 1901312.	3.7	1
42	Dynamic Manipulation and Precision Localization of Nanoparticles Internal to Cells. , 2010, , .		0