Ian Y Wong

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6912001/publications.pdf

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45 papers	2,269 citations	236925 25 h-index	330143 37 g-index
48 all docs	48 docs citations	48 times ranked	3871 citing authors

#	Article	IF	Citations
1	Anomalous Diffusion Probes Microstructure Dynamics of Entangled F-Actin Networks. Physical Review Letters, 2004, 92, 178101.	7.8	515
2	Collective and individual migration following the epithelialâ€“mesenchymal transition. Nature Materials, 2014, 13, 1063-1071.	27.5	169
3	Multiscale Graphene Topographies Programmed by Sequential Mechanical Deformation. Advanced Materials, 2016, 28, 3564-3571.	21.0	110
4	Nanotechnology: emerging tools for biology and medicine. Genes and Development, 2013, 27, 2397-2408.	5.9	104
5	Wrinkled, wavelength-tunable graphene-based surface topographies for directing cell alignment and morphology. Carbon, 2016, 97, 14-24.	10.3	101
6	Microscopic Structure and Elasticity of Weakly Aggregated Colloidal Gels. Physical Review Letters, 2006, 96, 185502.	7.8	97
7	An Electrostatic Model for DNA Surface Hybridization. Biophysical Journal, 2010, 98, 2954-2963.	0.5	93
8	Directional decisions during neutrophil chemotaxis inside bifurcating channels. Integrative Biology (United Kingdom), 2010, 2, 639.	1.3	85
9	From Flatland to Spaceland: Higher Dimensional Patterning with Twoâ€Dimensional Materials. Advanced Materials, 2017, 29, 1605096.	21.0	76
10	Stereolithographic printing of ionically-crosslinked alginate hydrogels for degradable biomaterials and microfluidics. Lab on A Chip, 2017, 17, 3474-3488.	6.0	72
11	Multifunctional soft machines based on stimuli-responsive hydrogels: from freestanding hydrogels to smart integrated systems. Materials Today Advances, 2020, 8, 100088.	5.2	67
12	The epithelial-mesenchymal transition and the cytoskeleton in bioengineered systems. Cell Communication and Signaling, 2021, 19, 32.	6.5	64
13	Directed Hybridization and Melting of DNA Linkers using Counterion-Screened Electric Fields. Nano Letters, 2009, 9, 3521-3526.	9.1	61
14	Subsets of human CD4⁺ regulatory T cells express the peripheral homing receptor CXCR3. European Journal of Immunology, 2011, 41, 2291-2302.	2.9	59
15	Morphological single cell profiling of the epithelialâ€“mesenchymal transition. Integrative Biology (United Kingdom), 2016, 8, 1133-1144.	1.3	56
16	Hierarchical Metal Oxide Topographies Replicated from Highly Textured Graphene Oxide by Intercalation Templating. ACS Nano, 2016, 10, 10869-10879.	14.6	55
17	3D printed self-adhesive PEGDAâ€“PAA hydrogels as modular components for soft actuators and microfluidics. Polymer Chemistry, 2019, 10, 2015-2028.	3.9	47
18	Alginate-graphene oxide hydrogels with enhanced ionic tunability and chemomechanical stability for light-directed 3D printing. Carbon, 2019, 143, 447-456.	10.3	46

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19	Ultrastretchable Graphene-Based Molecular Barriers for Chemical Protection, Detection, and Actuation. ACS Nano, 2018, 12, 234-244.	14.6	43
20	Rapid, topology-based particle tracking for high-resolution measurements of large complex 3D motion fields. Scientific Reports, 2018, 8, 5581.	3.3	36
21	Dynamic actuation using nano-bio interfaces. Materials Today, 2010, 13, 14-22.	14.2	34
22	Clustering and jamming in epithelialâ€“mesenchymal co-cultures. Soft Matter, 2016, 12, 8327-8337.	2.7	33
23	Breast Cancer Cells Transition from Mesenchymal to Amoeboid Migration in Tunable Three-Dimensional Silkâ€“Collagen Hydrogels. ACS Biomaterials Science and Engineering, 2019, 5, 4341-4354.	5.2	33
24	Antibody-Functionalized Fluid-Permeable Surfaces for Rolling Cell Capture at High Flow Rates. Biophysical Journal, 2012, 102, 721-730.	0.5	32
25	Mechanophenotyping of 3D multicellular clusters using displacement arrays of rendered tractions. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5655-5663.	7.1	27
26	Motility-limited aggregation of mammary epithelial cells into fractal-like clusters. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17298-17306.	7.1	26
27	Continuum model of mechanical interactions between biological cells and artificial nanostructures. Biointerphases, 2010, 5, 37-44.	1.6	20
28	Electronically Activated Actin Protein Polymerization and Alignment. Journal of the American Chemical Society, 2008, 130, 7908-7915.	13.7	17
29	Multicellular tumor invasion and plasticity in biomimetic materials. Biomaterials Science, 2017, 5, 1460-1479.	5.4	17
30	Mechanochemical engineering of 2D materials for multiscale biointerfaces. Journal of Materials Chemistry B, 2019, 7, 6293-6309.	5.8	17
31	Dynamic control of biomolecular activity using electrical interfaces. Soft Matter, 2007, 3, 267-274.	2.7	13
32	Discontinuous Nanoporous Membranes Reduce Nonâ€Specific Fouling for Immunoaffinity Cell Capture. Small, 2013, 9, 4207-4214.	10.0	11
33	Catching tumour cells in the zone. Nature Nanotechnology, 2017, 12, 191-193.	31.5	9
34	Topological data analysis of collective and individual epithelial cells using persistent homology of loops. Soft Matter, 2021, 17, 4653-4664.	2.7	8
35	Reciprocity of Cell Mechanics with Extracellular Stimuli: Emerging Opportunities for Translational Medicine. Small, 2022, 18, e2107305.	10.0	6
36	Graphene Topographies: Multiscale Graphene Topographies Programmed by Sequential Mechanical Deformation (Adv. Mater. 18/2016). Advanced Materials, 2016, 28, 3603-3603.	21.0	5

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37	3D Printed Monolithic Device for the Microfluidic Capture, Perfusion, and Analysis of Multicellular Spheroids. Frontiers in Medical Technology, 2021, 3, 646441.	2.5	4
38	Singled out: Profiling metabolic and proteomic heterogeneity. Science Translational Medicine, 2015, 7, .	12.4	0
39	A graphene security blanket. Science Translational Medicine, 2015, 7, .	12.4	0
40	Electronics, freshly squeezed. Science Translational Medicine, 2015, 7, .	12.4	0
41	Cells choose the path less potholed. Science Translational Medicine, 2015, 7, .	12.4	0
42	Platelet impersonation. Science Translational Medicine, 2015, 7, .	12.4	0
43	Singled out: Exploring epigenetics. Science Translational Medicine, 2015, 7, .	12.4	0
44	Neutrophils: Harbingers of metastasis?. Science Translational Medicine, 2015, 7, .	12.4	0
45	Use the force. Science Translational Medicine, 2016, 8, .	12.4	0