

Ian Y Wong

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

2,269
citations

236612

25
h-index

329751

37
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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. <i>Physical Review Letters</i> , 2004, 92, 178101.	2.9	515
2	Collective and individual migration following the epithelialâ€mesenchymal transition. <i>Nature Materials</i> , 2014, 13, 1063-1071.	13.3	169
3	Multiscale Graphene Topographies Programmed by Sequential Mechanical Deformation. <i>Advanced Materials</i> , 2016, 28, 3564-3571.	11.1	110
4	Nanotechnology: emerging tools for biology and medicine. <i>Genes and Development</i> , 2013, 27, 2397-2408.	2.7	104
5	Wrinkled, wavelength-tunable graphene-based surface topographies for directing cell alignment and morphology. <i>Carbon</i> , 2016, 97, 14-24.	5.4	101
6	Microscopic Structure and Elasticity of Weakly Aggregated Colloidal Gels. <i>Physical Review Letters</i> , 2006, 96, 185502.	2.9	97
7	An Electrostatic Model for DNA Surface Hybridization. <i>Biophysical Journal</i> , 2010, 98, 2954-2963.	0.2	93
8	Directional decisions during neutrophil chemotaxis inside bifurcating channels. <i>Integrative Biology (United Kingdom)</i> , 2010, 2, 639.	0.6	85
9	From Flatland to Spaceland: Higher Dimensional Patterning with Twoâ€Dimensional Materials. <i>Advanced Materials</i> , 2017, 29, 1605096.	11.1	76
10	Stereolithographic printing of ionically-crosslinked alginate hydrogels for degradable biomaterials and microfluidics. <i>Lab on A Chip</i> , 2017, 17, 3474-3488.	3.1	72
11	Multifunctional soft machines based on stimuli-responsive hydrogels: from freestanding hydrogels to smart integrated systems. <i>Materials Today Advances</i> , 2020, 8, 100088.	2.5	67
12	The epithelial-mesenchymal transition and the cytoskeleton in bioengineered systems. <i>Cell Communication and Signaling</i> , 2021, 19, 32.	2.7	64
13	Directed Hybridization and Melting of DNA Linkers using Counterion-Screened Electric Fields. <i>Nano Letters</i> , 2009, 9, 3521-3526.	4.5	61
14	Subsets of human CD4 ⁺ regulatory T cells express the peripheral homing receptor CXCR3. <i>European Journal of Immunology</i> , 2011, 41, 2291-2302.	1.6	59
15	Morphological single cell profiling of the epithelialâ€mesenchymal transition. <i>Integrative Biology (United Kingdom)</i> , 2016, 8, 1133-1144.	0.6	56
16	Hierarchical Metal Oxide Topographies Replicated from Highly Textured Graphene Oxide by Intercalation Templating. <i>ACS Nano</i> , 2016, 10, 10869-10879.	7.3	55
17	3D printed self-adhesive PEGDAâ€PAA hydrogels as modular components for soft actuators and microfluidics. <i>Polymer Chemistry</i> , 2019, 10, 2015-2028.	1.9	47
18	Alginate-graphene oxide hydrogels with enhanced ionic tunability and chemomechanical stability for light-directed 3D printing. <i>Carbon</i> , 2019, 143, 447-456.	5.4	46

#	ARTICLE	IF	CITATIONS
19	Ultrastretchable Graphene-Based Molecular Barriers for Chemical Protection, Detection, and Actuation. <i>ACS Nano</i> , 2018, 12, 234-244.	7.3	43
20	Rapid, topology-based particle tracking for high-resolution measurements of large complex 3D motion fields. <i>Scientific Reports</i> , 2018, 8, 5581.	1.6	36
21	Dynamic actuation using nano-bio interfaces. <i>Materials Today</i> , 2010, 13, 14-22.	8.3	34
22	Clustering and jamming in epithelial-mesenchymal co-cultures. <i>Soft Matter</i> , 2016, 12, 8327-8337.	1.2	33
23	Breast Cancer Cells Transition from Mesenchymal to Amoeboid Migration in Tunable Three-Dimensional Silk-Collagen Hydrogels. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 4341-4354.	2.6	33
24	Antibody-Functionalized Fluid-Permeable Surfaces for Rolling Cell Capture at High Flow Rates. <i>Biophysical Journal</i> , 2012, 102, 721-730.	0.2	32
25	Mechanophenotyping of 3D multicellular clusters using displacement arrays of rendered tractions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 5655-5663.	3.3	27
26	Motility-limited aggregation of mammary epithelial cells into fractal-like clusters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17298-17306.	3.3	26
27	Continuum model of mechanical interactions between biological cells and artificial nanostructures. <i>Biointerphases</i> , 2010, 5, 37-44.	0.6	20
28	Electronically Activated Actin Protein Polymerization and Alignment. <i>Journal of the American Chemical Society</i> , 2008, 130, 7908-7915.	6.6	17
29	Multicellular tumor invasion and plasticity in biomimetic materials. <i>Biomaterials Science</i> , 2017, 5, 1460-1479.	2.6	17
30	Mechanochemical engineering of 2D materials for multiscale biointerfaces. <i>Journal of Materials Chemistry B</i> , 2019, 7, 6293-6309.	2.9	17
31	Dynamic control of biomolecular activity using electrical interfaces. <i>Soft Matter</i> , 2007, 3, 267-274.	1.2	13
32	Discontinuous Nanoporous Membranes Reduce Non-specific Fouling for Immunoaffinity Cell Capture. <i>Small</i> , 2013, 9, 4207-4214.	5.2	11
33	Catching tumour cells in the zone. <i>Nature Nanotechnology</i> , 2017, 12, 191-193.	15.6	9
34	Topological data analysis of collective and individual epithelial cells using persistent homology of loops. <i>Soft Matter</i> , 2021, 17, 4653-4664.	1.2	8
35	Reciprocity of Cell Mechanics with Extracellular Stimuli: Emerging Opportunities for Translational Medicine. <i>Small</i> , 2022, 18, e2107305.	5.2	6
36	Graphene Topographies: Multiscale Graphene Topographies Programmed by Sequential Mechanical Deformation (<i>Adv. Mater.</i> 18/2016). <i>Advanced Materials</i> , 2016, 28, 3603-3603.	11.1	5

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37	3D Printed Monolithic Device for the Microfluidic Capture, Perfusion, and Analysis of Multicellular Spheroids. <i>Frontiers in Medical Technology</i> , 2021, 3, 646441.	1.3	4
38	Singled out: Profiling metabolic and proteomic heterogeneity. <i>Science Translational Medicine</i> , 2015, 7, .	5.8	0
39	A graphene security blanket. <i>Science Translational Medicine</i> , 2015, 7, .	5.8	0
40	Electronics, freshly squeezed. <i>Science Translational Medicine</i> , 2015, 7, .	5.8	0
41	Cells choose the path less potholed. <i>Science Translational Medicine</i> , 2015, 7, .	5.8	0
42	Platelet impersonation. <i>Science Translational Medicine</i> , 2015, 7, .	5.8	0
43	Singled out: Exploring epigenetics. <i>Science Translational Medicine</i> , 2015, 7, .	5.8	0
44	Neutrophils: Harbingers of metastasis?. <i>Science Translational Medicine</i> , 2015, 7, .	5.8	0
45	Use the force. <i>Science Translational Medicine</i> , 2016, 8, .	5.8	0