

# Amrinder S Nain

## List of Publications by Year in descending order

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41  
papers

1,494  
citations

394421

19  
h-index

330143

37  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1820  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative biophysical metrics for rapid evaluation of ovarian cancer metastatic potential. <i>Molecular Biology of the Cell</i> , 2022, 33, mbcE21080419.	2.1	4
2	Tunneling Nanotubes between Cells Migrating in ECM Mimicking Fibrous Environments. <i>Cancers</i> , 2022, 14, 1989.	3.7	9
3	Dynamic Heterochromatin States in Anisotropic Nuclei of Cells on Aligned Nanofibers. <i>ACS Nano</i> , 2022, 16, 10754-10767.	14.6	9
4	Single Cell Forces after Electroporation. <i>ACS Nano</i> , 2021, 15, 2554-2568.	14.6	20
5	Cell Fragment Formation, Migration, and Force Exertion on Extracellular Mimicking Fiber Nanonets. <i>Advanced Biology</i> , 2021, 5, e2000592.	2.5	5
6	Rules of contact inhibition of locomotion for cells on suspended nanofibers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	25
7	ECM in Differentiation: A Review of Matrix Structure, Composition and Mechanical Properties. <i>Annals of Biomedical Engineering</i> , 2020, 48, 1071-1089.	2.5	104
8	Bioenergetics underlying single-cell migration on aligned nanofiber scaffolds. <i>American Journal of Physiology - Cell Physiology</i> , 2020, 318, C476-C485.	4.6	21
9	Force-exerting perpendicular lateral protrusions in fibroblastic cell contraction. <i>Communications Biology</i> , 2020, 3, 390.	4.4	22
10	Inositol polyphosphate multikinase is a metformin target that regulates cell migration. <i>FASEB Journal</i> , 2019, 33, 14137-14146.	0.5	16
11	Cancer Cells Sense Fibers by Coiling on them in a Curvature-Dependent Manner. <i>IScience</i> , 2019, 19, 905-915.	4.1	26
12	Integrating nanofibers with biochemical gradients to investigate physiologically-relevant fibroblast chemotaxis. <i>Lab on A Chip</i> , 2019, 19, 3641-3651.	6.0	6
13	Crosshatch nanofiber networks of tunable interfiber spacing induce plasticity in cell migration and cytoskeletal response. <i>FASEB Journal</i> , 2019, 33, 10618-10632.	0.5	40
14	Tracking the origins of size dependency in the mechanical properties of polymeric nanofibers at the atomistic scale. <i>Polymer</i> , 2019, 175, 118-128.	3.8	17
15	Design of Nanofiber Coatings for Mitigation of Microbial Adhesion: Modeling and Application to Medical Catheters. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 15477-15486.	8.0	8
16	Cell Migration in 1D and 2D Nanofiber Microenvironments. <i>Annals of Biomedical Engineering</i> , 2018, 46, 392-403.	2.5	42
17	Design of Fiber Networks for Studying Metastatic Invasion. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1092, 289-318.	1.6	2
18	Effect of electrode sub-micron surface feature size on current generation of <i>Shewanella oneidensis</i> in microbial fuel cells. <i>Journal of Power Sources</i> , 2017, 347, 270-276.	7.8	17

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19	Aligned fibers direct collective cell migration to engineer closing and nonclosing wound gaps. <i>Molecular Biology of the Cell</i> , 2017, 28, 2579-2588.	2.1	40
20	Cancer Protrusions on a Tigtrope: Nanofiber Curvature Contrast Quantitates Single Protrusion Dynamics. <i>ACS Nano</i> , 2017, 11, 12037-12048.	14.6	34
21	Nanonet force microscopy for measuring forces in single smooth muscle cells of the human aorta. <i>Molecular Biology of the Cell</i> , 2017, 28, 1894-1900.	2.1	14
22	Aligned Nanofiber Topography Directs the Tenogenic Differentiation of Mesenchymal Stem Cells. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 59.	2.5	22
23	Nanonet Force Microscopy for Measuring Cell Forces. <i>Biophysical Journal</i> , 2016, 111, 197-207.	0.5	36
24	Capturing relevant extracellular matrices for investigating cell migration. <i>F1000Research</i> , 2015, 4, 1408.	1.6	29
25	Role of Suspended Fiber Structural Stiffness and Curvature on Single-Cell Migration, Nucleus Shape, and Focal-Adhesion-Cluster Length. <i>Biophysical Journal</i> , 2014, 107, 2604-2611.	0.5	57
26	Aligned assembly of nano and microscale polystyrene tubes with controlled morphology. <i>Polymer</i> , 2014, 55, 3008-3014.	3.8	7
27	Suspended Micro/Nanofiber Hierarchical Biological Scaffolds Fabricated Using Non-Electrospinning STEP Technique. <i>Langmuir</i> , 2014, 30, 13641-13649.	3.5	73
28	Aligned and suspended fiber force probes for drug testing at single cell resolution. <i>Biofabrication</i> , 2014, 6, 045006.	7.1	7
29	Polymeric nanofibers: isodiametric design space and methodology for depositing aligned nanofiber arrays in single and multiple layers. <i>Polymer Journal</i> , 2013, 45, 695-700.	2.7	36
30	Shape-dependent cell migration and focal adhesion organization on suspended and aligned nanofiber scaffolds. <i>Acta Biomaterialia</i> , 2013, 9, 7169-7177.	8.3	95
31	MISP: The missing link between extracellular matrix and astral microtubules. <i>Cell Cycle</i> , 2013, 12, 1821-1821.	2.6	3
32	Cell-Fiber Interactions on Aligned and Suspended Nanofiber Scaffolds. <i>Journal of Biomaterials and Tissue Engineering</i> , 2013, 3, 355-368.	0.1	21
33	Controlling bacterial adhesion to surfaces using topographical cues: a study of the interaction of <i>Pseudomonas aeruginosa</i> with nanofiber-textured surfaces. <i>Soft Matter</i> , 2012, 8, 10254.	2.7	60
34	Direct and cell signaling-based, geometry-induced neuronal differentiation of neural stem cells. <i>Integrative Biology (United Kingdom)</i> , 2011, 3, 1207.	1.3	27
35	Bioprinting of growth factors onto aligned sub-micron fibrous scaffolds for simultaneous control of cell differentiation and alignment. <i>Biomaterials</i> , 2011, 32, 8097-8107.	11.4	179
36	Note: Aligned deposition and modal characterization of micron and submicron poly(methyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td	1.3	1

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37	Dry Spinning Based Spinneret Based Tunable Engineered Parameters (STEP) Technique for Controlled and Aligned Deposition of Polymeric Nanofibers. Macromolecular Rapid Communications, 2009, 30, 1406-1412.	3.9	81
38	Control of Cell Behavior by Aligned Micro/Nanofibrous Biomaterial Scaffolds Fabricated by Spinneret-Based Tunable Engineered Parameters (STEP) Technique. Small, 2008, 4, 1153-1159.	10.0	67
39	Dry spinning polymeric nano/microfiber arrays using glass micropipettes with controlled porosities and fiber diameters. , 2007, , .		0
40	Drawing suspended polymer micro-/nanofibers using glass micropipettes. Applied Physics Letters, 2006, 89, 183105.	3.3	149
41	Development of a System for In Vitro Neck Muscle Force Replication in Whole Cervical Spine Experiments. Spine, 2001, 26, 2214-2219.	2.0	55