

Ingmar Schoen

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

1,616
citations

430874

18
h-index

361022

35
g-index

40
all docs

40
docs citations

40
times ranked

2906
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-time 3D single-molecule localization using experimental point spread functions. <i>Nature Methods</i> , 2018, 15, 367-369.	19.0	234
2	Binding-Activated Localization Microscopy of DNA Structures. <i>Nano Letters</i> , 2011, 11, 4008-4011.	9.1	165
3	Probing Cellular Traction Forces by Micropillar Arrays: Contribution of Substrate Warping to Pillar Deflection. <i>Nano Letters</i> , 2010, 10, 1823-1830.	9.1	153
4	The Yin-Yang of Rigidity Sensing: How Forces and Mechanical Properties Regulate the Cellular Response to Materials. <i>Annual Review of Materials Research</i> , 2013, 43, 589-618.	9.3	106
5	Extracellular Stimulation of Mammalian Neurons Through Repetitive Activation of Na ⁺ Channels by Weak Capacitive Currents on a Silicon Chip. <i>Journal of Neurophysiology</i> , 2008, 100, 346-357.	1.8	101
6	Hybridization kinetics is different inside cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 21649-21654.	7.1	92
7	Molecular architecture of native fibronectin fibrils. <i>Nature Communications</i> , 2015, 6, 7275.	12.8	90
8	The Mechanism of Extracellular Stimulation of Nerve Cells on an Electrolyte-Oxide-Semiconductor Capacitor. <i>Biophysical Journal</i> , 2007, 92, 1096-1111.	0.5	84
9	Probing fibronectin conformation on a protein corona layer around nanoparticles. <i>Nanoscale</i> , 2018, 10, 1228-1233.	5.6	55
10	Improved Side Chain Dynamics in MARTINI Simulations of Protein-Lipid Interfaces. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 2446-2458.	5.3	54
11	Disentangling the multifactorial contributions of fibronectin, collagen and cyclic strain on MMP expression and extracellular matrix remodeling by fibroblasts. <i>Matrix Biology</i> , 2014, 40, 62-72.	3.6	49
12	Robotically controlled microprey to resolve initial attack modes preceding phagocytosis. <i>Science Robotics</i> , 2017, 2, .	17.6	49
13	Site-Specifically-Labeled Antibodies for Super-Resolution Microscopy Reveal <i>In Situ</i> Linkage Errors. <i>ACS Nano</i> , 2021, 15, 12161-12170.	14.6	38
14	Blood group alters platelet binding kinetics to von Willebrand factor and consequently platelet function. <i>Blood</i> , 2019, 133, 1371-1377.	1.4	36
15	Structural Insights How PIP2 Imposes Preferred Binding Orientations of FAK at Lipid Membranes. <i>Journal of Physical Chemistry B</i> , 2017, 121, 3523-3535.	2.6	28
16	Morphometric analysis of spread platelets identifies integrin $\alpha 2 \beta 3$ -specific contractile phenotype. <i>Scientific Reports</i> , 2018, 8, 5428.	3.3	28
17	Nanoscale invaginations of the nuclear envelope: Shedding new light on wormholes with elusive function. <i>Nucleus</i> , 2017, 8, 506-514.	2.2	27
18	Nanopore Diameters Tune Strain in Extruded Fibronectin Fibers. <i>Nano Letters</i> , 2015, 15, 6357-6364.	9.1	26

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19	Violin SuperPlots: visualizing replicate heterogeneity in large data sets. <i>Molecular Biology of the Cell</i> , 2021, 32, 1333-1334.	2.1	25
20	Reduced platelet forces underlie impaired hemostasis in mouse models of <i>MYH9</i> -related disease. <i>Science Advances</i> , 2022, 8, eabn2627.	10.3	21
21	Breast cancer cells mediate endothelial cell activation, promoting von Willebrand factor release, tumor adhesion, and transendothelial migration. <i>Journal of Thrombosis and Haemostasis</i> , 2022, 20, 2350-2365.	3.8	18
22	Phosphorylated fibronectin enhances cell attachment and upregulates mechanical cell functions. <i>PLoS ONE</i> , 2019, 14, e0218893.	2.5	16
23	In Vitro Measurement and Modeling of Platelet Adhesion on VWF-Coated Surfaces in Channel Flow. <i>Biophysical Journal</i> , 2019, 116, 1136-1151.	0.5	16
24	Conformational distribution of surface-adsorbed fibronectin molecules explored by single molecule localization microscopy. <i>Biomaterials Science</i> , 2014, 2, 883.	5.4	15
25	Stretchable Silver Nanowire Microelectrodes for Combined Mechanical and Electrical Stimulation of Cells. <i>Advanced Healthcare Materials</i> , 2016, 5, 2045-2054.	7.6	14
26	In depth characterisation of the biomolecular coronas of polymer coated inorganic nanoparticles with differential centrifugal sedimentation. <i>Scientific Reports</i> , 2021, 11, 6443.	3.3	14
27	Activation of Na ⁺ channels in cell membrane by capacitive stimulation with silicon chip. <i>Applied Physics Letters</i> , 2005, 87, 193901.	3.3	13
28	Platelets drive fibronectin fibrillogenesis using integrin $\alpha 5 \beta 3$. <i>Science Advances</i> , 2022, 8, eabj8331.	10.3	11
29	Nanofiber Topographies Enhance Platelet-Fibrinogen Scaffold Interactions. <i>Advanced Healthcare Materials</i> , 2022, 11, e2200249.	7.6	9
30	Functional Modification of Fibronectin by N-Terminal FXIIIa-Mediated Transamidation. <i>ChemBioChem</i> , 2014, 15, 1481-1486.	2.6	7
31	A handshake between platelets and neutrophils might fuel deep vein thrombosis. <i>Platelets</i> , 2020, 31, 624-626.	2.3	5
32	Localization Precision in Stepwise Photobleaching Experiments. <i>Biophysical Journal</i> , 2014, 107, 2122-2129.	0.5	4
33	PIP2-induced membrane binding of the Vinculin tail competes with its other binding partners. <i>Biophysical Journal</i> , 2021, 120, 4608-4622.	0.5	3
34	Substrate-mediated crosstalk between elastic pillars. <i>Applied Physics Letters</i> , 2010, 97, 023703.	3.3	2
35	Measuring Nanometer Distances Between Fluorescent Labels Step-by-Step. <i>Methods in Molecular Biology</i> , 2017, 1663, 189-203.	0.9	2