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List of Publications by Year
in descending order

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49 papers	2,047 citations	304743 22 h-index	233421 45 g-index
49 all docs	49 docs citations	49 times ranked	3191 citing authors

#	Article	IF	Citations
1	DNA-Decorated Carbon Nanotubes for Chemical Sensing. Nano Letters, 2005, 5, 1774-1778.	9.1	471
2	Fabrication and electrical characterization of polyaniline-based nanofibers with diameter below 30 nm. Applied Physics Letters, 2003, 83, 3800-3802.	3.3	196
3	Silk Hydrogels as Soft Substrates for Neural Tissue Engineering. Advanced Functional Materials, 2013, 23, 5140-5149.	14.9	157
4	Elasticity Maps of Living Neurons Measured by Combined Fluorescence and Atomic Force Microscopy. Biophysical Journal, 2012, 103, 868-877.	0.5	147
5	Programmable 3D silk bone marrow niche for platelet generation ex vivo and modeling of megakaryopoiesis pathologies. Blood, 2015, 125, 2254-2264.	1.4	140
6	Predictive modelling-based design and experiments for synthesis and spinning of bioinspired silk fibres. Nature Communications, 2015, 6, 6892.	12.8	118
7	Quantitative Analysis of Scanning Conductance Microscopy. Nano Letters, 2004, 4, 859-862.	9.1	93
8	Neuron Biomechanics Probed by Atomic Force Microscopy. International Journal of Molecular Sciences, 2013, 14, 16124-16140.	4.1	69
9	Sequenceâ€“Structureâ€“Property Relationships of Recombinant Spider Silk Proteins: Integration of Biopolymer Design, Processing, and Modeling. Advanced Functional Materials, 2013, 23, 241-253.	14.9	61
10	Thiophene-Based Conjugated Polymers with Photolabile Solubilizing Side Chains. Macromolecules, 2015, 48, 959-966.	4.8	51
11	A new path to platelet production through matrix sensing. Haematologica, 2017, 102, 1150-1160.	3.5	51
12	Positioning and guidance of neurons on gold surfaces by directed assembly of proteins using Atomic Force Microscopy. Biomaterials, 2009, 30, 3397-3404.	11.4	45
13	Kelvin probe microscopy and electronic transport measurements in reduced graphene oxide chemical sensors. Nanotechnology, 2013, 24, 245502.	2.6	37
14	Stimuliâ€Responsive Freeâ€Standing Layerâ€Byâ€Layer Films. Advanced Materials, 2016, 28, 715-721.	21.0	36
15	Load Rate and Temperature Dependent Mechanical Properties of the Cortical Neuron and Its Pericellular Layer Measured by Atomic Force Microscopy. Langmuir, 2016, 32, 1111-1119.	3.5	31
16	Temperature response of the neuronal cytoskeleton mapped via atomic force and fluorescence microscopy. Physical Biology, 2013, 10, 056002.	1.8	30
17	Distance Dependence of Neuronal Growth on Nanopatterned Gold Surfaces. Langmuir, 2011, 27, 233-239.	3.5	28
18	Neuronal alignment on asymmetric textured surfaces. Applied Physics Letters, 2012, 101, 143701.	3.3	27

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19	Effect of sequence features on assembly of spider silk block copolymers. Journal of Structural Biology, 2014, 186, 412-419.	2.8	27
20	Effects of Surface Asymmetry on Neuronal Growth. PLoS ONE, 2014, 9, e106709.	2.5	26
21	Quantitative analysis of mechanical and electrostatic properties of poly(lactic) acid fibers and poly(lactic) acidâ€"carbon nanotube composites using atomic force microscopy. Nanotechnology, 2015, 26, 105702.	2.6	25
22	DNA-decorated carbon nanotubes for chemical sensing. Physica Status Solidi (B): Basic Research, 2006, 243, 3252-3256.	1.5	24
23	Variations of Elastic Modulus and Cell Volume with Temperature for Cortical Neurons. Langmuir, 2019, 35, 10965-10976.	3.5	21
24	Anomalous diffusion for neuronal growth on surfaces with controlled geometries. PLoS ONE, 2019, 14, e0216181.	2.5	16
25	Cytoprotection of Human Progenitor and Stem Cells through Encapsulation in Alginate Templated, Dual Crosslinked Silk and Silkâ€"Gelatin Composite Hydrogel Microbeads. Advanced Healthcare Materials, 2022, 11, .	7.6	15
26	Neuronal growth as diffusion in an effective potential. Physical Review E, 2013, 88, 042707.	2.1	14
27	Role of geometrical cues in neuronal growth. Physical Review E, 2019, 99, 022408.	2.1	13
28	High Frequency Scanning Gate Microscopy and Local Memory Effect of Carbon Nanotube Transistors. Nano Letters, 2005, 5, 893-896.	9.1	12
29	Effect of Terminal Modification on the Molecular Assembly and Mechanical Properties of Proteinâ€Based Block Copolymers. Macromolecular Bioscience, 2017, 17, 1700095.	4.1	10
30	Neuron dynamics on directional surfaces. Soft Matter, 2019, 15, 9931-9941.	2.7	9
31	Youngâ€™s Modulus of Cortical and P19 Derived Neurons Measured by Atomic Force Microscopy. Materials Research Society Symposia Proceedings, 2012, 1420, 7.	0.1	8
32	Silk-ionomer and silk-tropoelastin hydrogels as charged three-dimensional culture platforms for the regulation of hMSC response. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 2549-2564.	2.7	6
33	Neuronal Growth and Formation of Neuron Networks on Directional Surfaces. Biomimetics, 2021, 6, 41.	3.3	6
34	Quantitative characterization of dielectric properties of nanoparticles using electrostatic force microscopy. AIP Advances, 2020, 10, 115118.	1.3	4
35	Axonal growth on surfaces with periodic geometrical patterns. PLoS ONE, 2021, 16, e0257659.	2.5	4
36	Feedback-controlled dynamics of neuronal cells on directional surfaces. Biophysical Journal, 2022, 121, 769-781.	0.5	4

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37	Semi-automatic quantification of neurite fasciculation in high-density neurite images by the neurite directional distribution analysis (NDDA). Journal of Neuroscience Methods, 2014, 228, 100-109.	2.5	3
38	Quantitative characterization of dielectric properties of polymer fibers and polymer composites using electrostatic force microscopy. Nanotechnology, 2020, 31, 505713.	2.6	3
39	Cytoskeletal Dynamics of Neurons Measured by Combined Fluorescence and Atomic Force Microscopy. MRS Advances, 2018, 3, 1463-1468.	0.9	2
40	Neuronal dynamics on patterned substrates measured by fluorescence microscopy. MRS Communications, 2018, 8, 487-492.	1.8	2
41	Scanning Conductance Microscopy and High Frequency Scanning Gate Microscopy of Carbon Nanotubes and Polyethylene based Nanofibers. Materials Research Society Symposia Proceedings, 2004, 838, 229.	0.1	1
42	Electrostatic Force Microscopy of Nanofibers and Carbon Nanotubes: Quantitative Analysis Using Theory and Experiment. Materials Research Society Symposia Proceedings, 2007, 1025, 1.	0.1	1
43	Controlling Neuronal Growth on Au Surfaces by Directed Assembly of Proteins. Materials Research Society Symposia Proceedings, 2009, 1236, 1.	0.1	1
44	Electronic Transport and Doping Effects in Reduced Graphene Oxide Measured by Scanning Probe Microscopy. Materials Research Society Symposia Proceedings, 2013, 1505, 1.	0.1	1
45	High Resolution Mapping of Cytoskeletal Dynamics in Neurons via Combined Atomic Force Microscopy and Fluorescence Microscopy. Materials Research Society Symposia Proceedings, 2013, 1527, 1.	0.1	1
46	Scanning Conductance Microscopy of Carbon Nanotubes and Polyethylene Oxide Nanofibers. AIP Conference Proceedings, 2004, , .	0.4	0
47	Single Stranded DNA Decorated Carbon Nanotube Transistors for Chemical Sensing. Materials Research Society Symposia Proceedings, 2005, 900, 1.	0.1	0
48	Controlling neuronal growth and connectivity via directed self-assembly of proteins. Materials Research Society Symposia Proceedings, 2013, 1498, 207-212.	0.1	0
49	Quantification of Axonal Outgrowth on a Surface with Asymmetric Topography. Materials Research Society Symposia Proceedings, 2014, 1621, 243-248.	0.1	0