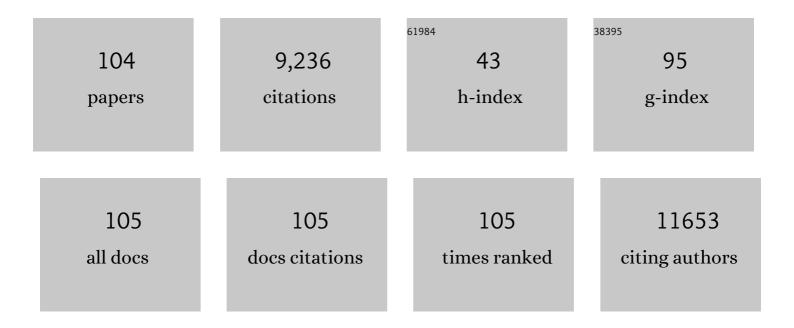
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Cancer cell mechanobiology: a new frontier for cancer research. Journal of the National Cancer Center, 2022, 2, 10-17.	7.4	17
2	Emergence of Inâ€Materio Intelligence from an Incidental Structure of a Singleâ€Walled Carbon Nanotube–Porphyrin Polyoxometalate Random Network. Advanced Intelligent Systems, 2022, 4, .	6.1	22
3	Pacemaker translocations and power laws in 2D stem cell-derived cardiomyocyte cultures. PLoS ONE, 2022, 17, e0263976.	2.5	2
4	Cardio PyMEA: A user-friendly, open-source Python application for cardiomyocyte microelectrode array analysis. PLoS ONE, 2022, 17, e0266647.	2.5	1
5	Programmable Fading Memory in Atomic Switch Systems for Error Checking Applications. Natural Computing Series, 2021, , 273-303.	2.2	1
6	Spoken Digit Classification by In-Materio Reservoir Computing With Neuromorphic Atomic Switch Networks. Frontiers in Nanotechnology, 2021, 3, .	4.8	43
7	Nanoscale Extracellular Vesicles Carry the Mechanobiology Signatures of Breast Cancer Cells. ACS Applied Nano Materials, 2021, 4, 9876-9885.	5.0	9
8	Nanoscale neuromorphic networks and criticality: a perspective. Journal of Physics Complexity, 2021, 2, 042001.	2.2	16
9	Single Cell Mechanotype and Associated Molecular Changes in Urothelial Cell Transformation and Progression. Frontiers in Cell and Developmental Biology, 2020, 8, 601376.	3.7	10
10	Monomolecular covalent honeycomb nanosheets produced by surface-mediated polycondensation between 1,3,5-triamino benzene and benzene-1,3,5-tricarbox aldehyde on Au(111). Nanoscale Advances, 2020, 2, 3202-3208.	4.6	4
11	Artificial Synapses Realized by Atomic Switch Technology. Advances in Atom and Single Molecule Machines, 2020, , 175-199.	0.0	1
12	Emergent dynamics of neuromorphic nanowire networks. Scientific Reports, 2019, 9, 14920.	3.3	93
13	Piezoelectric needle sensor reveals mechanical heterogeneity in human thyroid tissue lesions. Scientific Reports, 2019, 9, 9282.	3.3	12
14	Potential role of MRN-100, an iron-based compound, in upregulating production of cytokine IL-10 in human dendritic cells to promote an anti-inflammatory response in vitro. International Journal of Immunopathology and Pharmacology, 2019, 33, 205873841984493.	2.1	3
15	Self-organization and Emergence ofÂDynamical Structures inÂNeuromorphic Atomic SwitchÂNetworks. , 2019, , 391-427.		4
16	Atomic switch networks as complex adaptive systems. Japanese Journal of Applied Physics, 2018, 57, 03ED02.	1.5	27
17	Inhibition of TRPV1 Channel Activity in Human CD4+ T Cells by Nanodiamond and Nanoplatinum Liquid, DPV576. Nanomaterials, 2018, 8, 770.	4.1	9
18	Marina crystal minerals (MCM) activate human dendritic cells to induce CD4+ and CD8+ T cell responses <i>in vitro</i> . International Journal of Immunopathology and Pharmacology, 2018, 32, 205873841879776.	2.1	3

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19	Two dimensional electrophysiological characterization of human pluripotent stem cell-derived cardiomyocyte system. Scientific Reports, 2017, 7, 43210.	3.3	35
20	Nanocytology as a potential biomarker for cancer. Biomarkers in Medicine, 2017, 11, 213-216.	1.4	13
21	Identification of a Human Airway Epithelial Cell Subpopulation with Altered Biophysical, Molecular, and Metastatic Properties. Cancer Prevention Research, 2017, 10, 514-524.	1.5	9
22	DNA nanomapping using CRISPR-Cas9 as a programmable nanoparticle. Nature Communications, 2017, 8, 1665.	12.8	27
23	Atomic force microscopy correlates antimetastatic potentials of HepG2 cell line with its redox/energy status: effects of curcumin and Khaya senegalensis. Journal of Integrative Medicine, 2017, 15, 214-230.	3.1	13
24	Glucose inhibits cardiac muscle maturation through nucleotide biosynthesis. ELife, 2017, 6, .	6.0	142
25	Self-Organization and Emergence of Dynamic Systems. , 2016, , 163-180.		3
26	Application of AFM to the Nanomechanics of Cancer. MRS Advances, 2016, 1, 1817-1827.	0.9	7
27	Nanoarchitectonic atomic switch networks for unconventional computing. Japanese Journal of Applied Physics, 2016, 55, 1102B2.	1.5	47
28	High-Speed Atomic Force Microscopy Revealing Contamination in DNA Purification Systems. Analytical Chemistry, 2016, 88, 2527-2532.	6.5	9
29	Exosomes: Nanoscale Packages Contain the Health-state [Status Quo] of the Cells that Secrete them. Journal of Nanomedicine & Nanotechnology, 2015, 06, .	1.1	2
30	Multistate resistive switching in silver nanoparticle films. Science and Technology of Advanced Materials, 2015, 16, 045004.	6.1	26
31	Fine Needle Elastography (FNE) device for biomechanically determining local variations of tissue mechanical properties. Journal of Biomechanics, 2015, 48, 81-88.	2.1	10
32	Self-Organization and Emergence of Dynamic Systems. , 2015, , 1-14.		0
33	Self-organization and Emergence of Dynamical Structures in Neuromorphic Atomic Switch Networks. , 2014, , 173-209.		12
34	Thermodynamic Self-Assembly of Two-Dimensional <i>π</i> -Conjugated Metal–Porphyrin Covalent Organic Frameworks by "On-Site―Equilibrium Polymerization. Journal of Nanoscience and Nanotechnology, 2014, 14, 2211-2216.	0.9	16
35	Positional selectivity of reversible azomethine condensation reactions at solid/liquid interfaces leading to supramolecule formation. Journal of Electroanalytical Chemistry, 2014, 716, 145-149.	3.8	13
36	Self-organized atomic switch networks. Japanese Journal of Applied Physics, 2014, 53, 01AA02.	1.5	20

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37	Nanoscale characterization of effect of l-arginine on Streptococcus mutans biofilm adhesion by atomic force microscopy. Microbiology (United Kingdom), 2014, 160, 1466-1473.	1.8	59
38	The role of Rho GTPase in cell stiffness and cisplatin resistance in ovarian cancer cells. Integrative Biology (United Kingdom), 2014, 6, 611-617.	1.3	68
39	Biophysical and morphological effects of nanodiamond/nanoplatinum solution (DPV576) on metastatic murine breast cancer cellsin vitro. Nanotechnology, 2014, 25, 465101.	2.6	7
40	Atomic Force Microscopic Detection Enabling Multiplexed Low-Cycle-Number Quantitative Polymerase Chain Reaction for Biomarker Assays. Analytical Chemistry, 2014, 86, 6180-6183.	6.5	9
41	Nanostructured Self-Assembly of Inverted Formin 2 (INF2) and F-Actin–INF2 Complexes Revealed by Atomic Force Microscopy. Langmuir, 2014, 30, 7533-7539.	3.5	9
42	Nanofilaments on glioblastoma exosomes revealed by peak force microscopy. Journal of the Royal Society Interface, 2014, 11, 20131150.	3.4	56
43	Benchtop Fabrication of Memristive Atomic Switch Networks. Journal of Nanoscience and Nanotechnology, 2014, 14, 2792-2798.	0.9	7
44	Morphological Transitions from Dendrites to Nanowires in the Electroless Deposition of Silver. Crystal Growth and Design, 2013, 13, 465-469.	3.0	46
45	Immunological Biosensors. , 2013, , 203-207.		1
46	Amplification of Conformational Effects via tert-Butyl Groups: Hexa-tert-butyl Decacyclene on Cu(100) at Room Temperature. Langmuir, 2013, 29, 7309-7317.	3.5	5
47	Graphene MEMS: AFM Probe Performance Improvement. ACS Nano, 2013, 7, 4164-4170.	14.6	74
48	Correlative nanoscale imaging of actin filaments and their complexes. Nanoscale, 2013, 5, 5692.	5.6	7
49	A theoretical and experimental study of neuromorphic atomic switch networks for reservoir computing. Nanotechnology, 2013, 24, 384004.	2.6	178
50	Rigid microenvironments promote cardiac differentiation of mouse and human embryonic stem cells. Science and Technology of Advanced Materials, 2013, 14, 025003.	6.1	60
51	Synaptic plasticity and memory functions achieved in a WO _{3â^'<i>x</i>} -based nanoionics device by using the principle of atomic switch operation. Nanotechnology, 2013, 24, 384003.	2.6	117
52	Image Analysis and Length Estimation of Biomolecules Using AFM. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 1200-1207.	3.2	14
53	On-Demand Nanodevice with Electrical and Neuromorphic Multifunction Realized by Local Ion Migration. ACS Nano, 2012, 6, 9515-9521.	14.6	186
54	Correlative nanomechanical profiling with super-resolution F-actin imaging reveals novel insights into mechanisms of cisplatin resistance in ovarian cancer cells. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 757-766.	3.3	92

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55	<i>In Situ</i> STM Investigation of Aromatic Poly(azomethine) Arrays Constructed by "On-Site― Equilibrium Polymerization. Langmuir, 2012, 28, 13844-13851.	3.5	31
56	Molecular Cooperativity of Drebrin1-300 Binding and Structural Remodeling of F-Actin. Biophysical Journal, 2012, 103, 275-283.	0.5	36
57	Neuromorphic Atomic Switch Networks. PLoS ONE, 2012, 7, e42772.	2.5	146
58	DNA Builds and Strengthens the Extracellular Matrix in Myxococcus xanthus Biofilms by Interacting with Exopolysaccharides. PLoS ONE, 2012, 7, e51905.	2.5	57
59	Controlling the Synaptic Plasticity of a Cu ₂ S Gapâ€Type Atomic Switch. Advanced Functional Materials, 2012, 22, 3606-3613.	14.9	160
60	Emergent Criticality in Complex Turing Bâ€īype Atomic Switch Networks. Advanced Materials, 2012, 24, 286-293.	21.0	182
61	The Quest for Characterizing Exosomes: Circulating Nano-Sized Vesicles. Journal of Nanomedicine & Nanotechnology, 2012, 03, .	1.1	8
62	Continuity of Graphene on Polycrystalline Copper. Nano Letters, 2011, 11, 251-256.	9.1	175
63	Sensory and short-term memory formations observed in a Ag2S gap-type atomic switch. Applied Physics Letters, 2011, 99, .	3.3	63
64	Green tea extract selectively targets nanomechanics of live metastatic cancer cells. Nanotechnology, 2011, 22, 215101.	2.6	70
65	Atomic Force Microscopy Reveals Drebrin Induced Remodeling of F-Actin with Subnanometer Resolution. Nano Letters, 2011, 11, 825-827.	9.1	87
66	Rapid, Massively Parallel Single-Cell Drug Response Measurements via Live Cell Interferometry. Biophysical Journal, 2011, 101, 1025-1031.	0.5	55
67	Atomic-Scale Characterization of Graphene Grown on Copper (100) Single Crystals. Journal of the American Chemical Society, 2011, 133, 12536-12543.	13.7	154
68	Thermodynamically Controlled Self-Assembly of Covalent Nanoarchitectures in Aqueous Solution. ACS Nano, 2011, 5, 3923-3929.	14.6	162
69	Short-term plasticity and long-term potentiation mimicked in single inorganic synapses. Nature Materials, 2011, 10, 591-595.	27.5	1,480
70	Quantitative Nanostructural and Single-Molecule Force Spectroscopy Biomolecular Analysis of Human-Saliva-Derived Exosomes. Langmuir, 2011, 27, 14394-14400.	3.5	174
71	Memristive operations demonstrated by gap-type atomic switches. Applied Physics A: Materials Science and Processing, 2011, 102, 811-815.	2.3	43
72	Structural-Mechanical Characterization of Nanoparticle Exosomes in Human Saliva, Using Correlative AFM, FESEM, and Force Spectroscopy. ACS Nano, 2010, 4, 1921-1926.	14.6	312

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73	Learning Abilities Achieved by a Single Solidâ€State Atomic Switch. Advanced Materials, 2010, 22, 1831-1834.	21.0	274
74	Nanocharacterization in Dentistry. International Journal of Molecular Sciences, 2010, 11, 2523-2545.	4.1	46
75	Localized Nanoscopic Surface Measurements of Nickel-Modified Mica for Single-Molecule DNA Sequence Sampling. ACS Applied Materials & Interfaces, 2010, 2, 3249-3256.	8.0	15
76	Evaluation of bacteria-induced enamel demineralization using optical profilometry. Dental Materials, 2009, 25, 1517-1526.	3.5	26
77	Applicability of AFM in cancer detection. Nature Nanotechnology, 2009, 4, 72-73.	31.5	86
78	Mechanical Interferometry of Nanoscale Motion and Local Mechanical Properties of Living Zebrafish Embryos. ACS Nano, 2009, 3, 2090-2094.	14.6	11
79	Dynamic mechanical oscillations during metamorphosis of the monarch butterfly. Journal of the Royal Society Interface, 2009, 6, 29-37.	3.4	16
80	In Situ Mechanical Interferometry of Matrigel Films. Langmuir, 2009, 25, 36-39.	3.5	42
81	A breakthrough therapy for dentin hypersensitivity: how dental products containing 8% arginine and calcium carbonate work to deliver effective relief of sensitive teeth. Journal of Clinical Dentistry, 2009, 20, 23-31.	0.9	83
82	AFM-based analysis of human metastatic cancer cells. Nanotechnology, 2008, 19, 384003.	2.6	329
83	Live Cell Interferometry Reveals Cellular Dynamism During Force Propagation. ACS Nano, 2008, 2, 841-846.	14.6	56
84	High throughput cell nanomechanics with mechanical imaging interferometry. Nanotechnology, 2008, 19, 235101.	2.6	31
85	Atomic force microscope observation of branching in single transcript molecules derived from human cardiac muscle. Nanotechnology, 2008, 19, 384021.	2.6	1
86	Nanomechanical properties of piezoresistive cantilevers: Theory and experiment. Journal of Applied Physics, 2008, 104, 103527.	2.5	5
87	Observations of image contrast and dimerization of decacyclene by low temperature scanning tunneling microscopy. Journal of Chemical Physics, 2007, 127, 174703.	3.0	4
88	Single molecule transcription profiling with AFM. Nanotechnology, 2007, 18, 044032.	2.6	17
89	Nanomechanical properties of glucans and associated cell-surface adhesion of Streptococcus mutans probed by atomic force microscopy under in situ conditions. Microbiology (United Kingdom), 2007, 153, 3124-3132.	1.8	77
90	Distinct contributions of microtubule subtypes to cell membrane shape and stability. Nanomedicine: Nanotechnology, Biology, and Medicine, 2007, 3, 43-52.	3.3	58

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91	Nanomechanical analysis of cells from cancer patients. Nature Nanotechnology, 2007, 2, 780-783.	31.5	1,650
92	Self-organized and highly ordered domain structures within swarms ofMyxococcus xanthus. Cytoskeleton, 2006, 63, 141-148.	4.4	22
93	Functional characterization of cell-wall-associated protein WapA in Streptococcus mutans. Microbiology (United Kingdom), 2006, 152, 2395-2404.	1.8	61
94	Atomic force microscopy study of the structure–function relationships of the biofilm-forming bacteriumStreptococcus mutans. Nanotechnology, 2006, 17, S1-S7.	2.6	46
95	Thin film interference in the optomechanical response of micromechanical silicon cantilevers. Applied Physics Letters, 2006, 89, 241916.	3.3	13
96	Time dependence of the frequency and amplitude of the local nanomechanical motion of yeast. Nanomedicine: Nanotechnology, Biology, and Medicine, 2005, 1, 178-183.	3.3	53
97	Nanoscale visualization and characterization of Myxococcus xanthus cells with atomic force microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 6484-6489.	7.1	112
98	Local Nanomechanical Motion of the Cell Wall of Saccharomyces cerevisiae. Science, 2004, 305, 1147-1150.	12.6	328
99	Complementary TEM and AFM Force Spectroscopy to Characterize the Nanomechanical Properties of Nanoparticle Chain Aggregates. Nano Letters, 2004, 4, 2287-2292.	9.1	57
100	lsochromat spectroscopy of photons emitted from metal surfaces in an STM. Annalen Der Physik, 1993, 505, 133-140.	2.4	42
101	Photon emission in scanning tunneling microscopy: Interpretation of photon maps of metallic systems. Physical Review B, 1993, 48, 4746-4754.	3.2	115
102	The role of proximity plasmon modes on noble metal surfaces in scanning tunneling microscopy. Surface Science, 1992, 269-270, 556-559.	1.9	36
103	Enhanced photon emission from the STM: a general property of metal surfaces. Ultramicroscopy, 1992, 42-44, 355-359.	1.9	29
104	Inelastic tunneling excitation of tip-induced plasmon modes on noble-metal surfaces. Physical Review Letters, 1991, 67, 3796-3799.	7.8	424