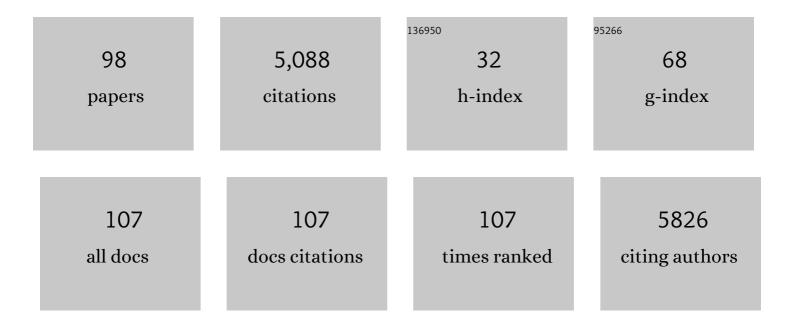
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	lon type and valency differentially drive vimentin tetramers into intermediate filaments or higher order assemblies. Soft Matter, 2021, 17, 870-878.	2.7	8
2	Post-translational modifications soften vimentin intermediate filaments. Nanoscale, 2021, 13, 380-387.	5.6	24
3	Tuning the Mechanical Properties of Poly(Methyl Acrylate) via Surfaceâ€Functionalized Montmorillonite Nanosheets. Macromolecular Materials and Engineering, 2021, 306, 2000595.	3.6	5
4	The Coding and Small Non-coding Hippocampal Synaptic RNAome. Molecular Neurobiology, 2021, 58, 2940-2953.	4.0	10
5	Structural model of the M7G46 Methyltransferase TrmB in complex with tRNA. RNA Biology, 2021, 18, 2466-2479.	3.1	8
6	Vimentin intermediate filaments stabilize dynamic microtubules by direct interactions. Nature Communications, 2021, 12, 3799.	12.8	52
7	Multiscale mechanics and temporal evolution of vimentin intermediate filament networks. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	12
8	Reflections on COVID-19–Induced Online Teaching in Biophysics Courses. The Biophysicist, 2021, 2, 20-22.	0.3	1
9	Exploring early time points of vimentin assembly in flow by fluorescence fluctuation spectroscopy. Lab on A Chip, 2021, 21, 735-745.	6.0	2
10	Combined scanning small-angle X-ray scattering and holography probes multiple length scales in cell nuclei. Journal of Synchrotron Radiation, 2021, 28, 518-529.	2.4	1
11	Time-resolved MIET measurements of blood platelet spreading and adhesion. Nanoscale, 2020, 12, 21306-21315.	5.6	13
12	A minimalist model to measure interactions between proteins and synaptic vesicles. Scientific Reports, 2020, 10, 21086.	3.3	8
13	Tuning intermediate filament mechanics by variation of pH and ion charges. Nanoscale, 2020, 12, 15236-15245.	5.6	20
14	Vesicle adhesion in the electrostatic strong-coupling regime studied by time-resolved small-angle X-ray scattering. Soft Matter, 2020, 16, 4142-4154.	2.7	11
15	Transport and programmed release of nanoscale cargo from cells by using NETosis. Nanoscale, 2020, 12, 9104-9115.	5.6	15
16	A comparative analysis of the mobility of 45 proteins in the synaptic bouton. EMBO Journal, 2020, 39, e104596.	7.8	29
17	Large field-of-view scanning small-angle X-ray scattering of mammalian cells. Journal of Synchrotron Radiation, 2020, 27, 1059-1068.	2.4	1
18	Scanning Small-Angle X-ray Scattering and Coherent X-ray Imaging of Cells. Topics in Applied Physics, 2020, , 405-433.	0.8	1

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19	Direct characterization of cytoskeletal reorganization during blood platelet spreading. Progress in Biophysics and Molecular Biology, 2019, 144, 166-176.	2.9	22
20	A beamline-compatible STED microscope for combined visible-light and X-ray studies of biological matter. Journal of Synchrotron Radiation, 2019, 26, 1144-1151.	2.4	1
21	Lateral Subunit Coupling Determines Intermediate Filament Mechanics. Physical Review Letters, 2019, 123, 188102.	7.8	27
22	Vimentin Intermediate Filaments Undergo Irreversible Conformational Changes during Cyclic Loading. Nano Letters, 2019, 19, 7349-7356.	9.1	36
23	Human blood platelets contract in perpendicular direction to shear flow. Soft Matter, 2019, 15, 2009-2019.	2.7	14
24	Mutation-induced alterations of intra-filament subunit organization in vimentin filaments revealed by SAXS. Soft Matter, 2019, 15, 1999-2008.	2.7	14
25	Helical Superstructure of Intermediate Filaments. Physical Review Letters, 2019, 122, 098101.	7.8	5
26	STXM analysis: Preparing to go live @ 750â€Hz. AIP Conference Proceedings, 2019, , .	0.4	1
27	Cyclic olefin copolymer as an X-ray compatible material for microfluidic devices. Lab on A Chip, 2018, 18, 171-178.	6.0	33
28	Scanning Small-Angle-X-Ray Scattering for Imaging Biological Cells. Microscopy and Microanalysis, 2018, 24, 336-339.	0.4	1
29	Correlative microscopy approach for biology using X-ray holography, X-ray scanning diffraction and STED microscopy. Nature Communications, 2018, 9, 3641.	12.8	33
30	Dynamics of force generation by spreading platelets. Soft Matter, 2018, 14, 6571-6581.	2.7	35
31	Effect of ionic strength on the structure and elongational kinetics of vimentin filaments. Soft Matter, 2018, 14, 8445-8454.	2.7	13
32	Viscoelastic properties of vimentin originate from nonequilibrium conformational changes. Science Advances, 2018, 4, eaat1161.	10.3	52
33	Rapid Acquisition of Xâ€Ray Scattering Data from Dropletâ€Encapsulated Protein Systems. ChemPhysChem, 2017, 18, 1220-1223.	2.1	14
34	Nonlinear Loading-Rate-Dependent Force Response of Individual Vimentin Intermediate Filaments to Applied Strain. Physical Review Letters, 2017, 118, 048101.	7.8	84
35	Imaging of Biological Materials and Cells by X-ray Scattering and Diffraction. ACS Nano, 2017, 11, 8542-8559.	14.6	57
36	Election of the German Committee for Research with Synchrotron Radiation (KFS). Synchrotron Radiation News, 2017, 30, 32-32.	0.8	0

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37	Competitive Counterion Binding Regulates the Aggregation Onset of Vimentin Intermediate Filaments. Israel Journal of Chemistry, 2016, 56, 614-621.	2.3	17
38	The filament forming reactions of vimentin tetramers studied in a serial-inlet microflow device by small angle x-ray scattering. Biomicrofluidics, 2016, 10, 024108.	2.4	20
39	Topographic Cues Reveal Two Distinct Spreading Mechanisms in Blood Platelets. Scientific Reports, 2016, 6, 22357.	3.3	34
40	Lateral association and elongation of vimentin intermediate filament proteins: A time-resolved light-scattering study. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11152-11157.	7.1	31
41	Emerging Investigators 2016: discovery science meets technology. Lab on A Chip, 2016, 16, 2974-2976.	6.0	0
42	Calpain-mediated cleavage of collapsin response mediator protein-2 drives acute axonal degeneration. Scientific Reports, 2016, 6, 37050.	3.3	27
43	Following DNA Compaction During the Cell Cycle by X-ray Nanodiffraction. ACS Nano, 2016, 10, 10661-10670.	14.6	8
44	Impact of the crystallization condition on importin-β conformation. Acta Crystallographica Section D: Structural Biology, 2016, 72, 705-717.	2.3	12
45	X-rays Reveal the Internal Structure of Keratin Bundles in Whole Cells. ACS Nano, 2016, 10, 3553-3561.	14.6	32
46	Contribution of myosin II activity to cell spreading dynamics. Soft Matter, 2016, 12, 500-507.	2.7	5
47	Intermediate filament mechanics in vitro and in the cell: from coiled coils to filaments, fibers and networks. Current Opinion in Cell Biology, 2015, 32, 82-91.	5.4	134
48	Physical properties of cytoplasmic intermediate filaments. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 3053-3064.	4.1	85
49	The Structure of Gold-Nanoparticle Networks Cross-Linked by Di- and Multifunctional RAFT Oligomers. Langmuir, 2015, 31, 10573-10582.	3.5	15
50	Assembly of Simple Epithelial Keratin Filaments: Deciphering the Ion Dependence in Filament Organization. Biomacromolecules, 2015, 16, 3313-3321.	5.4	20
51	Open channel block of NMDA receptors by diphenhydramine. Neuropharmacology, 2015, 99, 459-470.	4.1	12
52	Editorial — Special issue on mechanobiology. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 2975-2976.	4.1	1
53	Revealing the Structure of Stereociliary Actin by X-ray Nanoimaging. ACS Nano, 2014, 8, 12228-12237.	14.6	19
54	Mechanics of Individual Keratin Bundles in Living Cells. Biophysical Journal, 2014, 107, 2693-2699.	0.5	38

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55	Direct Observation of Subunit Exchange along Mature Vimentin Intermediate Filaments. Biophysical Journal, 2014, 107, 2923-2931.	0.5	49
56	Scanning X-Ray Nanodiffraction on Living Eukaryotic Cells in Microfluidic Environments. Physical Review Letters, 2014, 112, .	7.8	71
57	Tracking reactions in microflow. Microfluidics and Nanofluidics, 2014, 16, 39-45.	2.2	10
58	Micro-topography influences blood platelet spreading. Soft Matter, 2014, 10, 2365-2371.	2.7	11
59	Dynamics of counterion-induced attraction between vimentin filaments followed in microfluidic drops. Lab on A Chip, 2014, 14, 2681-2687.	6.0	34
60	Impact of ion valency on the assembly of vimentin studied by quantitative small angle X-ray scattering. Soft Matter, 2014, 10, 2059-2068.	2.7	26
61	Microfluidic devices for X-ray studies on hydrated cells. Lab on A Chip, 2013, 13, 212-215.	6.0	63
62	Influence of microfluidic shear on keratin networks in living cells. New Journal of Physics, 2013, 15, 045025.	2.9	9
63	Microfluidics—from fundamental research to industrial applications. Journal Physics D: Applied Physics, 2013, 46, 110301.	2.8	3
64	New Developments in Hard X-ray Fluorescence Microscopy for In-situ Investigations of Trace Element Distributions in Aqueous Systems of Soil Colloids. Journal of Physics: Conference Series, 2013, 463, 012005.	0.4	2
65	X-ray nano-diffraction on cytoskeletal networks. New Journal of Physics, 2012, 14, 085013.	2.9	43
66	Vimentin networks at tunable ion-concentration in microfluidic drops. Biomicrofluidics, 2012, 6, 022009.	2.4	27
67	Intermediate Filaments in Small Configuration Spaces. Physical Review Letters, 2012, 108, 088101.	7.8	62
68	X-RAY STUDIES OF BIOLOGICAL MATTER IN MICROFLUIDIC ENVIRONMENTS. Modern Physics Letters B, 2012, 26, 1230018.	1.9	37
69	Mobility Gradient Induces Cross-Streamline Migration of Semiflexible Polymers. ACS Macro Letters, 2012, 1, 541-545.	4.8	44
70	Promethazine inhibits NMDA-induced currents – New pharmacological aspects of an old drug. Neuropharmacology, 2012, 63, 280-291.	4.1	15
71	Force field evolution during human blood platelet activation. Journal of Cell Science, 2012, 125, 3914-20.	2.0	55
72	Tunable Silk: Using Microfluidics to Fabricate Silk Fibers with Controllable Properties. Biomacromolecules, 2011, 12, 1504-1511.	5.4	154

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73	Dynamics of intermediate filament assembly followed in micro-flow by small angle X-ray scattering. Lab on A Chip, 2011, 11, 708.	6.0	70
74	Intranasal Application of Xenon Reduces Opioid Requirement and Postoperative Pain in Patients Undergoing Major Abdominal Surgery. Anesthesiology, 2011, 115, 398-407.	2.5	30
75	Anucleate platelets generate progeny. Blood, 2010, 115, 3801-3809.	1.4	164
76	Orientation of biomolecular assemblies in a microfluidic jet. New Journal of Physics, 2010, 12, 043056.	2.9	12
77	Xenon-induced changes in CNS sensitization to pain. NeuroImage, 2010, 49, 720-730.	4.2	26
78	Nanomechanics of vimentin intermediate filament networks. Soft Matter, 2010, 6, 1910.	2.7	28
79	An in vitro model system for cytoskeletal confinement. Cytoskeleton, 2009, 66, 771-776.	4.4	19
80	Influence of Internal Capsid Pressure on Viral Infection by Phage λ. Biophysical Journal, 2009, 97, 1525-1529.	0.5	34
81	Dropspots: a picoliter array in a microfluidic device. Lab on A Chip, 2009, 9, 44-49.	6.0	229
82	Internal Capsid-Pressure Dependence of Viral Infection by Phage Lambda. Biophysical Journal, 2009, 96, 421a.	0.5	0
83	Droplet-Based Microfluidic Platforms for the Encapsulation and Screening of Mammalian Cells and Multicellular Organisms. Chemistry and Biology, 2008, 15, 427-437.	6.0	620
84	Characterization of single semiflexible filaments under geometric constraints. European Physical Journal E, 2008, 25, 439-449.	1.6	32
85	Drop-based microfluidic devices for encapsulation of single cells. Lab on A Chip, 2008, 8, 1110.	6.0	470
86	Biocompatible surfactants for water-in-fluorocarbon emulsions. Lab on A Chip, 2008, 8, 1632.	6.0	589
87	Etomidate reduces glutamate uptake in rat cultured glial cells: involvement of PKA. British Journal of Pharmacology, 2008, 155, 925-933.	5.4	18
88	Controlled encapsulation of single-cells into monodisperse picolitre drops. Lab on A Chip, 2008, 8, 1262.	6.0	444
89	An In Situ Study of Collagen Self-Assembly Processes. Biomacromolecules, 2008, 9, 199-207.	5.4	56
90	FLUCTUATIONS OF SINGLE CONFINED ACTIN FILAMENTS. Biophysical Reviews and Letters, 2007, 02, 155-166.	0.8	18

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91	Highly Packed and Oriented DNA Mesophases Identified Using in Situ Microfluidic X-ray Microdiffraction. Biomacromolecules, 2007, 8, 2167-2172.	5.4	48
92	Visualization of Flow-Aligned Type I Collagen Self-Assembly in Tunable pH Gradients. Langmuir, 2007, 23, 357-359.	3.5	54
93	Rapid increase of glial glutamate uptake via blockade of the protein kinase A pathway. Glia, 2007, 55, 1699-1707.	4.9	32
94	Rapid Prototyping of X-Ray Microdiffraction Compatible Continuous Microflow Foils. Small, 2007, 3, 96-100.	10.0	30
95	Evolution of DNA compaction in microchannels. Journal of Physics Condensed Matter, 2006, 18, S639-S652.	1.8	24
96	Microfluidics of soft matter investigated by small-angle X-ray scattering. Journal of Synchrotron Radiation, 2005, 12, 745-750.	2.4	61
97	Brownian motion of actin filaments in confining microchannels. Journal of Physics Condensed Matter, 2005, 17, S4091-S4104.	1.8	52
98	Microaligned collagen matrices by hydrodynamic focusing: controlling the pH-induced self-assembly. Materials Research Society Symposia Proceedings, 2005, 898, 1.	0.1	0