Arif Md Rashedul Kabir

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Controlling the Rigidity of Kinesin-Propelled Microtubules in an <i>In Vitro</i> Gliding Assay Using the Deep-Sea Osmolyte Trimethylamine <i>N</i>-Oxide. ACS Omega, 2022, 7, 3796-3803.	3.5	2
2	Cooperative cargo transportation by a swarm of molecular machines. Science Robotics, 2022, 7, eabm0677.	17.6	28
3	A new approach to explore the mechanoresponsiveness of microtubules and its application in studying dynamic soft interfaces. Polymer Journal, 2021, 53, 299-308.	2.7	1
4	Controlling the length of self-assembled microtubes through mechanical stress-induced scission. Chemical Communications, 2021, 57, 468-471.	4.1	1
5	Monopolar flocking of microtubules in collective motion. Biochemical and Biophysical Research Communications, 2021, 563, 73-78.	2.1	7
6	Deformation of microtubules regulates translocation dynamics of kinesin. Science Advances, 2021, 7, eabf2211.	10.3	12
7	Controlling Collective Motion of Kinesin-Driven Microtubules via Patterning of Topographic Landscapes. Nano Letters, 2021, 21, 10478-10485.	9.1	8
8	Complete, rapid and reversible regulation of the motility of a nano-biomolecular machine using an osmolyte trimethylamine-N-oxide. Sensors and Actuators B: Chemical, 2020, 304, 127231.	7.8	4
9	Controlling the kinetics of interaction between microtubules and kinesins over a wide temperature range using the deep-sea osmolyte trimethylamineN-oxide. Chemical Communications, 2020, 56, 1187-1190.	4.1	6
10	Mechanical Stimulationâ€Induced Orientation of Gliding Microtubules in Confined Microwells. Advanced Materials Interfaces, 2020, 7, 1902013.	3.7	3
11	Magnetic Force-Induced Alignment of Microtubules by Encapsulation of CoPt Nanoparticles Using a Tau-Derived Peptide. Nano Letters, 2020, 20, 5251-5258.	9.1	20
12	Cyclic Tau-derived peptides for stabilization of microtubules. Polymer Journal, 2020, 52, 1143-1151.	2.7	15
13	Molecular swarm robots: recent progress and future challenges. Science and Technology of Advanced Materials, 2020, 21, 323-332.	6.1	30
14	Photo-regulated trajectories of gliding microtubules conjugated with DNA. Chemical Communications, 2020, 56, 7953-7956.	4.1	11
15	Regulation of Biomolecular-Motor-Driven Cargo Transport by Microtubules under Mechanical Stress. ACS Applied Bio Materials, 2020, 3, 1875-1883.	4.6	6
16	Synchronous operation of biomolecular engines. Biophysical Reviews, 2020, 12, 401-409.	3.2	15
17	Effect of microtubule immobilization by glutaraldehyde on kinesin-driven cargo transport. Polymer Journal, 2020, 52, 655-660.	2.7	6
18	Breaking of buckled microtubules is mediated by kinesins. Biochemical and Biophysical Research Communications, 2020, 524, 249-254.	2.1	13

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19	Radial alignment of microtubules through tubulin polymerization in an evaporating droplet. PLoS ONE, 2020, 15, e0231352.	2.5	4
20	Comparison of microtubules stabilized with the anticancer drugs cevipabulin and paclitaxel. Polymer Journal, 2020, 52, 969-976.	2.7	4
21	Fluorescent Tau-derived Peptide for Monitoring Microtubules in Living Cells. ACS Omega, 2019, 4, 11245-11250.	3.5	18
22	Stabilization of microtubules by cevipabulin. Biochemical and Biophysical Research Communications, 2019, 516, 760-764.	2.1	9
23	Stabilization of microtubules by encapsulation of the GFP using a Tau-derived peptide. Chemical Communications, 2019, 55, 9072-9075.	4.1	22
24	Adaptation of Patterns of Motile Filaments under Dynamic Boundary Conditions. ACS Nano, 2019, 13, 12452-12460.	14.6	17
25	Artificial Smooth Muscle Model Composed of Hierarchically Ordered Microtubule Asters Mediated by DNA Origami Nanostructures. Nano Letters, 2019, 19, 3933-3938.	9.1	51
26	Construction of artificial cilia from microtubules and kinesins through a well-designed bottom-up approach. Nanoscale, 2018, 10, 6323-6332.	5.6	11
27	DNA-assisted swarm control in a biomolecular motor system. Nature Communications, 2018, 9, 453.	12.8	110
28	Controlling the Length of Microtubules by Manipulating Their Polymerization Condition. ECS Transactions, 2018, 88, 15-21.	0.5	2
29	Liquid Crystalline Colloidal Mixture of Nanosheets and Rods with Dynamically Variable Length. ACS Omega, 2018, 3, 14869-14874.	3.5	7
30	Study of active self-assembly using biomolecular motors. Polymer Journal, 2018, 50, 1139-1148.	2.7	9
31	Molecular Encapsulation Inside Microtubules Based on Tauâ€Derived Peptides. Chemistry - A European Journal, 2018, 24, 14958-14967.	3.3	30
32	Control of swarming of molecular robots. Scientific Reports, 2018, 8, 11756.	3.3	31
33	Role of confinement in the active self-organization of kinesin-driven microtubules. Sensors and Actuators B: Chemical, 2017, 247, 53-60.	7.8	11
34	Motility of Microtubules on the Inner Surface of Water-in-Oil Emulsion Droplets. Langmuir, 2017, 33, 12108-12113.	3.5	5
35	High-Resolution Imaging of a Single Gliding Protofilament of Tubulins by HS-AFM. Scientific Reports, 2017, 7, 6166.	3.3	22
36	A Photoregulated ATP Generation System for In Vitro Motility Assay. Chemistry Letters, 2017, 46, 178-180.	1.3	1

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37	Understanding the emergence of collective motion of microtubules driven by kinesins: role of concentration of microtubules and depletion force. RSC Advances, 2017, 7, 13191-13197.	3.6	37
38	Sensing surface mechanical deformation using active probes driven by motor proteins. Nature Communications, 2016, 7, 12557.	12.8	46
39	Buckling of microtubules on elastic media via breakable bonds. Biochemical and Biophysical Research Communications, 2016, 480, 132-138.	2.1	3
40	Mechanical oscillation of dynamic microtubule rings. RSC Advances, 2016, 6, 69149-69155.	3.6	6
41	Construction and Gilding of Metal-Organic Frameworks and Microtubule Conjugates. ChemistrySelect, 2016, 1, 5358-5362.	1.5	4
42	Cytoskeletal motor-driven active self-assembly in in vitro systems. Soft Matter, 2016, 12, 988-997.	2.7	42
43	Enhanced dynamic instability of microtubules in a ROS free inert environment. Biophysical Chemistry, 2016, 211, 1-8.	2.8	21
44	Intelligence of reconstructed biomolecular motor system. , 2016, , .		0
45	Buckling of Microtubules on a 2D Elastic Medium. Scientific Reports, 2015, 5, 17222.	3.3	40
46	Drag force on micron-sized objects with different surface morphologies in a flow with a small Reynolds number. Polymer Journal, 2015, 47, 564-570.	2.7	9
47	Controlling the Bias of Rotational Motion of Ring-Shaped Microtubule Assembly. Biomacromolecules, 2015, 16, 374-378.	5.4	16
48	Effect of length and rigidity of microtubules on the size of ring-shaped assemblies obtained through active self-organization. Soft Matter, 2015, 11, 1151-1157.	2.7	31
49	Depletion force induced collective motion of microtubules driven by kinesin. Nanoscale, 2015, 7, 18054-18061.	5.6	60
50	Formation of ring-shaped microtubule assemblies through active self-organization on dynein. Polymer Journal, 2014, 46, 220-225.	2.7	13
51	Biomolecular Motor Modulates Mechanical Property of Microtubule. Biomacromolecules, 2014, 15, 1797-1805.	5.4	42
52	Growth of ring-shaped microtubule assemblies through stepwise active self-organisation. Soft Matter, 2013, 9, 7061.	2.7	26
53	Active self-organization of microtubules in an inert chamber system. Polymer Journal, 2012, 44, 607-611.	2.7	23
54	Formation of ring-shaped assembly of microtubules with a narrow size distribution at an airâ€“buffer interface. Soft Matter, 2012, 8, 10863.	2.7	30

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55	Controlled Clockwiseâ€“Counterclockwise Motion of the Ring-Shaped Microtubules Assembly. Biomacromolecules, 2011, 12, 3394-3399.	5.4	21
56	Prolongation of the Active Lifetime of a Biomolecular Motor for in Vitro Motility Assay by Using an Inert Atmosphere. Langmuir, 2011, 27, 13659-13668.	3.5	54
57	How to Integrate Biological Motors towards Bioâ€Actuators Fueled by ATP. Macromolecular Bioscience, 2011, 11, 1314-1324.	4.1	15
58	Fluctuation in the Sliding Movement of Kinesin-Driven Microtubules Is Regulated Using the Deep-Sea Osmolyte Trimethylamine <i>N</i>-Oxide. ACS Omega, 0, , .	3.5	0