Erkan Tuzel

List of Publications by Year
in descending order

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66	1,626	304743	315739
papers	citations	22 h-index	38 g-index

72	72	72	1932
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Measurement of the persistence length of cytoskeletal filaments using curvature distributions. Biophysical Journal, 2022, 121, 1813-1822.	0.5	7
2	Quantitative cell biology of tip growth in moss. Plant Molecular Biology, 2021, 107, 227-244.	3.9	11
3	Myosin XI drives polarized growth by vesicle focusing and local enrichment of F-actin inPhyscomitrium patens. Plant Physiology, 2021, 187, 2509-2529.	4.8	4
4	Kinesin-2 from C.Âreinhardtii Is an Atypically Fast and Auto-inhibited Motor that Is Activated by Heterotrimerization for Intraflagellar Transport. Current Biology, 2020, 30, 1160-1166.e5.	3.9	11
5	Re-track: Software to analyze the retraction and protrusion velocities of neurites, filopodia and other structures. Analytical Biochemistry, 2020, 596, 113626.	2.4	4
6	In vivo Interactions between myosin XI, vesicles, and filamentous actin are fast and transient. Journal of Cell Science, 2020, 133, .	2.0	9
7	Invadopodia-mediated ECM degradation is enriched in the G1 phase of the cell cycle. Journal of Cell Science, 2019, 132, .	2.0	25
8	Three-Dimensional Model of Cooperative Transport of Pairs of Kinesin-1 and â^'2 Motors. Biophysical Journal, 2019, 116, 407a.	0.5	0
9	Binding Kinetics between Membrane-Bound Kinesin Motors and Microtubules. Biophysical Journal, 2019, 116, 411a.	0.5	0
10	Motor Dynamics Underlying Cargo Transport by Pairs of Kinesin-1 and Kinesin-3 Motors. Biophysical Journal, 2019, 116, 1115-1126.	0.5	45
11	Microtubule binding kinetics of membrane-bound kinesin-1 predicts high motor copy numbers on intracellular cargo. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26564-26570.	7.1	22
12	Microfluidics: Guidance and Selfâ€Sorting of Active Swimmers: 3D Periodic Arrays Increase Persistence Length of Human Sperm Selecting for the Fittest (Adv. Sci. 2/2018). Advanced Science, 2018, 5, 1870008.	11.2	0
13	Guidance and Selfâ€Sorting of Active Swimmers: 3D Periodic Arrays Increase Persistence Length of Human Sperm Selecting for the Fittest. Advanced Science, 2018, 5, 1700531.	11.2	53
14	Understanding Boundary Effects and Confocal Optics Enables Quantitative FRAP Analysis in the Confined Geometries of Animal, Plant and Fungal Cells. Biophysical Journal, 2018, 114, 349a-350a.	0.5	2
15	Characterization of Cell Boundary and Confocal Effects Improves Quantitative FRAP Analysis. Biophysical Journal, 2018, 114, 1153-1164.	0.5	12
16	F-Actin Mediated Focusing of Vesicles at the Cell Tip Is Essential for Polarized Growth. Plant Physiology, 2018, 176, 352-363.	4.8	30
17	F-Actin Meditated Focusing of Vesicles at the Cell Tip is Essential for Polarized Growth. Biophysical Journal, 2018, 114, 648a.	0.5	0
18	Eg5 Inhibitors Have Contrasting Effects on Microtubule Stability and Metaphase Spindle Integrity. ACS Chemical Biology, 2017, 12, 1038-1046.	3.4	27

#	Article	IF	Citations
19	Shifting the optimal stiffness for cell migration. Nature Communications, 2017, 8, 15313.	12.8	217
20	Modeling Cargo Transport by Pairs of Kinesin-1 and -3 Motors. Biophysical Journal, 2017, 112, 263a.	0.5	0
21	Eg5 Inhibitors have Contrasting Effects on Microtubule Stability and Spindle Integrity Depending on their Modes of Action. Biophysical Journal, 2017, 112, 427a-428a.	0.5	1
22	Measurement of the Persistence Length of Cytoskeletal Filaments using Curvature Distributions. Biophysical Journal, 2017, 112, 566a.	0.5	0
23	Boundary Effects in FRAP Recovery in the Confined Geometries of Animal, Plant and Fungal Cells. Biophysical Journal, 2017, 112, 583a.	0.5	0
24	Monitoring Neutropenia for Cancer Patients at the Point of Care. Small Methods, 2017, 1, 1700193.	8.6	4
25	Force Generation by Membrane-Associated Myosin-I. Scientific Reports, 2016, 6, 25524.	3.3	28
26	A Perspective on the Role of Myosins as Mechanosensors. Biophysical Journal, 2016, 110, 2568-2576.	0.5	64
27	Force Generation by Membrane-Associated Myosin-I. Biophysical Journal, 2016, 110, 467a.	0.5	0
28	Cooperative Transport by Populations of Fast and Slow Kinesins Uncovers Novel Family-Dependent Motor Characteristics Important for in vivo Function. Biophysical Journal, 2015, 108, 136a.	0.5	0
29	The kinesinâ€like proteins, KAC1/2, regulate actin dynamics underlying chloroplast lightâ€avoidance in Physcomitrella patens. Journal of Integrative Plant Biology, 2015, 57, 106-119.	8.5	27
30	A GPU accelerated virtual scanning confocal microscope. , 2014, , .		1
31	Selection of Functional Human Sperm with Higher DNA Integrity and Fewer Reactive Oxygen Species. Advanced Healthcare Materials, 2014, 3, 1671-1679.	7.6	98
32	Transport by Populations of Fast and Slow Kinesins Uncovers Novel Family-Dependent Motor Characteristics Important for InÂVivo Function. Biophysical Journal, 2014, 107, 1896-1904.	0.5	83
33	Experimental and Computational Investigations into Cooperative Cargo Transport by Mixtures of Kinesins from Different Families. Biophysical Journal, 2013, 104, 325a.	0.5	0
34	Microtubule Dependent Anomalous Diffusion of Chloroplasts in Moss. Biophysical Journal, 2013, 104, 650a-651a.	0.5	0
35	Motility of Self-Assembled Quantum Dot Cargos. Biophysical Journal, 2013, 104, 650a.	0.5	0
36	Apical myosin <scp>XI</scp> anticipates <scp>F</scp>â€actin during polarized growth of <scp>P</scp>hyscomitrella patens cells. Plant Journal, 2013, 73, 417-428.	5.7	47

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37	Exhaustion of Racing Sperm in Natureâ€Mimicking Microfluidic Channels During Sorting. Small, 2013, 9, 3374-3384.	10.0	96
38	Microfluidic Sorting: Exhaustion of Racing Sperm in Natureâ€Mimicking Microfluidic Channels During Sorting (Small 20/2013). Small, 2013, 9, 3366-3366.	10.0	0
39	Accelerating a novel particle-based fluid simulation on the GPU. , 2013, , .		2
40	Motor transport of self-assembled cargos in crowded environments. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20814-20819.	7.1	82
41	Quantitative analysis of organelle distribution and dynamics in Physcomitrella patens protonemal cells. BMC Plant Biology, 2012, 12, 70.	3.6	48
42	Coarse-Grained Model of Cooperative Chloroplast Transport in Moss. Biophysical Journal, 2012, 102, 378a.	0.5	0
43	Microtubule Motor Traffic Jams. Biophysical Journal, 2012, 102, 368a.	0.5	0
44	Coarse-Grained Modeling of Organelle Motility in Living Cells. Biophysical Journal, 2011, 100, 600a.	0.5	0
45	Organelle Dynamics: A Tale of Fusing Nucleoli. Current Biology, 2011, 21, R395-R397.	3.9	2
46	Loop formation of microtubules during gliding at high density. Journal of Physics Condensed Matter, 2011, 23, 374104.	1.8	55
47	Actin Interacting Protein1 and Actin Depolymerizing Factor Drive Rapid Actin Dynamics inPhyscomitrella patensÂ. Plant Cell, 2011, 23, 3696-3710.	6.6	70
48	Dynamics of thermally driven capillary waves for two-dimensional droplets. Journal of Chemical Physics, 2010, 132, 174701.	3.0	12
49	Myosin XI Is Essential for Tip Growth inPhyscomitrella patensÂ. Plant Cell, 2010, 22, 1868-1882.	6.6	142
50	Taking another look with fluorescence microscopy: Image processing techniques in Langmuir monolayers for the twenty-first century. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 1289-1300.	2.6	30
51	Lipid Monolayer Line Tension Measurements and Model Convolution. Biophysical Journal, 2010, 98, 275a.	0.5	0
52	Anterograde Microtubule Transport Drives Microtubule Bending in LLC-PK1 Epithelial Cells. Molecular Biology of the Cell, 2009, 20, 2943-2953.	2.1	83
53	Modeling of Motor Mediated Microtubule Bending. Biophysical Journal, 2009, 96, 572a.	0.5	0
54	Lipid Monolayer Experiments and Simulations to Extract Line Tension. Biophysical Journal, 2009, 96, 349a.	0.5	0

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55	Static and dynamic properties of a particle-based algorithm for non-ideal fluids and binary mixtures. Progress in Computational Fluid Dynamics, 2008, 8, 138.	0.2	3
56	Mesoscopic model for the fluctuating hydrodynamics of binary and ternary mixtures. Europhysics Letters, 2007, 80, 40010.	2.0	31
57	Analysis of Microtubule Curvature. Methods in Cell Biology, 2007, 83, 237-268.	1.1	40
58	Consistent particle-based algorithm with a non-ideal equation of state. Europhysics Letters, 2006, 73, 664-670.	2.0	41
59	Constructing thermodynamically consistent models with a non-ideal equation of state. Mathematics and Computers in Simulation, 2006, 72, 232-236.	4.4	12
60	Hydrophobic models of protein folding and the thermodynamics of chain-boundary interactions. Brazilian Journal of Physics, 2003, 33, 573-588.	1.4	3
61	Monitoring Diffusion of Reptating Polymer Chains by a Direct Energy Transfer Method: A Monte Carlo Simulation. Macromolecular Theory and Simulations, 2002, 11, 678.	1.4	2
62	Strategies for the evolution of sex. Physical Review E, 2001, 64, 061908.	2.1	9
63	Dissipative Dynamics and the Statistics of Energy States of a Hookean Model for Protein Folding. Journal of Statistical Physics, 2000, 100, 405-422.	1.2	2
64	TESTING A HYPOTHESIS FOR THE EVOLUTION OF SEX. International Journal of Modern Physics C, 2000, 11, 973-986.	1.7	13
65	Glassy dynamics of protein folding. Physical Review E, 2000, 61, R1040-R1043.	2.1	7
66	THE DISSIPATIVE DYNAMICS AND RELAXATION BEHAVIOR OF A GENERIC MODEL FOR HYDROPHOBIC COLLAPSE. , 2000, , 205-227.		0