

Yusuke Toyama

List of Publications by Year in descending order

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53
papers

5,146
citations

117453

34
h-index

168136

53
g-index

55
all docs

55
docs citations

55
times ranked

3986
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast heating of ultrahigh-density plasma as a step towards laser fusion ignition. <i>Nature</i> , 2001, 412, 798-802.	13.7	873
2	Topological defects in epithelia govern cell death and extrusion. <i>Nature</i> , 2017, 544, 212-216.	13.7	511
3	Fast heating scalable to laser fusion ignition. <i>Nature</i> , 2002, 418, 933-934.	13.7	445
4	Apoptotic Force and Tissue Dynamics During <i>Drosophila</i> Embryogenesis. <i>Science</i> , 2008, 321, 1683-1686.	6.0	251
5	Laser light and hot electron micro focusing using a conical target. <i>Physics of Plasmas</i> , 2004, 11, 3083-3087.	0.7	184
6	Plasma devices to guide and collimate a high density of MeV electrons. <i>Nature</i> , 2004, 432, 1005-1008.	13.7	170
7	Epithelial bridges maintain tissue integrity during collective cell migration. <i>Nature Materials</i> , 2014, 13, 87-96.	13.3	162
8	Nanoscale architecture of cadherin-based cell adhesions. <i>Nature Cell Biology</i> , 2017, 19, 28-37.	4.6	135
9	Characterization of a gamma-ray source based on a laser-plasma accelerator with applications to radiography. <i>Applied Physics Letters</i> , 2002, 80, 2129-2131.	1.5	124
10	Basolateral protrusion and apical contraction cooperatively drive <i>Drosophila</i> germ-band extension. <i>Nature Cell Biology</i> , 2017, 19, 375-383.	4.6	121
11	Gap geometry dictates epithelial closure efficiency. <i>Nature Communications</i> , 2015, 6, 7683.	5.8	118
12	Studies of ultra-intense laser plasma interactions for fast ignition. <i>Physics of Plasmas</i> , 2000, 7, 2014-2022.	0.7	115
13	Mechanics of epithelial closure over non-adherent environments. <i>Nature Communications</i> , 2015, 6, 6111.	5.8	113
14	Plastin increases cortical connectivity to facilitate robust polarization and timely cytokinesis. <i>Journal of Cell Biology</i> , 2017, 216, 1371-1386.	2.3	99
15	Epithelial Cell Packing Induces Distinct Modes of Cell Extrusions. <i>Current Biology</i> , 2016, 26, 2942-2950.	1.8	98
16	Characterization of $7\text{Li}(p,n)7\text{Be}$ neutron yields from laser produced ion beams for fast neutron radiography. <i>Physics of Plasmas</i> , 2004, 11, 3404-3408.	0.7	97
17	Upregulation of Forces and Morphogenic Asymmetries in Dorsal Closure during <i>Drosophila</i> Development. <i>Biophysical Journal</i> , 2007, 92, 2583-2596.	0.2	86
18	Dynamic F-actin movement is essential for fertilization in <i>Arabidopsis thaliana</i> . <i>ELife</i> , 2014, 3, .	2.8	86

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19	Large-scale curvature sensing by directional actin flow drives cellular migration mode switching. <i>Nature Physics</i> , 2019, 15, 393-402.	6.5	78
20	Fast ignitor research at the Institute of Laser Engineering, Osaka University. <i>Physics of Plasmas</i> , 2001, 8, 2268-2274.	0.7	72
21	Investigating the nature of active forces in tissues reveals how contractile cells can form extensible monolayers. <i>Nature Materials</i> , 2021, 20, 1156-1166.	13.3	69
22	Laser generated proton beam focusing and high temperature isochoric heating of solid matter. <i>Physics of Plasmas</i> , 2007, 14, .	0.7	67
23	Cell Ingression and Apical Shape Oscillations during Dorsal Closure in <i>Drosophila</i> . <i>Biophysical Journal</i> , 2012, 102, 969-979.	0.2	67
24	DNA damage causes rapid accumulation of phosphoinositides for ATR signaling. <i>Nature Communications</i> , 2017, 8, 2118.	5.8	66
25	Calcium Wave Promotes Cell Extrusion. <i>Current Biology</i> , 2020, 30, 670-681.e6.	1.8	66
26	Actomyosin purse strings: Renewable resources that make morphogenesis robust and resilient. <i>HFSP Journal</i> , 2008, 2, 220-237.	2.5	65
27	Cell Boundary Elongation by Non-autonomous Contractility in Cell Oscillation. <i>Current Biology</i> , 2016, 26, 2388-2396.	1.8	64
28	Ion acceleration from the shock front induced by hole boring in ultraintense laser-plasma interactions. <i>Physical Review E</i> , 2004, 70, 046414.	0.8	60
29	Progress of fast ignitor studies and Petawatt laser construction at Osaka University. <i>Physics of Plasmas</i> , 2002, 9, 2202-2207.	0.7	54
30	Shaping the zebrafish myotome by intertissue friction and active stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 25430-25439.	3.3	53
31	Integrated implosion/heating studies for advanced fast ignition. <i>Physics of Plasmas</i> , 2004, 11, 2746-2753.	0.7	50
32	Enhancement of energetic electrons and protons by cone guiding of laser light. <i>Physical Review E</i> , 2005, 71, 036403.	0.8	45
33	Aurora-A Breaks Symmetry in Contractile Actomyosin Networks Independently of Its Role in Centrosome Maturation. <i>Developmental Cell</i> , 2019, 48, 631-645.e6.	3.1	44
34	Remodeling of adhesion and modulation of mechanical tensile forces during apoptosis in <i>Drosophila</i> epithelium. <i>Development (Cambridge)</i> , 2017, 144, 95-105.	1.2	40
35	Fast ignition relevant study of the flux of high intensity laser-generated electrons via a hollow cone into a laser-imploded plasma. <i>Physics of Plasmas</i> , 2008, 15, 022701.	0.7	38
36	Fast plasma heating in a cone-attached geometry towards fusion ignition. <i>Nuclear Fusion</i> , 2004, 44, S276-S283.	1.6	36

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37	Apoptotic force: Active mechanical function of cell death during morphogenesis. <i>Development Growth and Differentiation</i> , 2011, 53, 269-276.	0.6	36
38	Adhesion-mediated heterogeneous actin organization governs apoptotic cell extrusion. <i>Nature Communications</i> , 2021, 12, 397.	5.8	34
39	Desmosomal Junctions Govern Tissue Integrity and Actomyosin Contractility in Apoptotic Cell Extrusion. <i>Current Biology</i> , 2020, 30, 682-690.e5.	1.8	33
40	Emergent properties during dorsal closure in <i>Drosophila</i> morphogenesis. <i>Physical Biology</i> , 2008, 5, 015004.	0.8	30
41	Broad-range neutron spectra identification in ultraintense laser interactions with carbon-deuterated plasma. <i>Physics of Plasmas</i> , 2005, 12, 110703.	0.7	29
42	Syncytial germline architecture is actively maintained by contraction of an internal actomyosin corset. <i>Nature Communications</i> , 2018, 9, 4694.	5.8	29
43	<i>Drosophila</i> morphogenesis: Tissue force laws and the modeling of dorsal closure. <i>HFSP Journal</i> , 2009, 3, 441-460.	2.5	28
44	Ti K α radiography of Cu-doped plastic microshell implosions via spherically bent crystal imaging. <i>Applied Physics Letters</i> , 2005, 86, 191501.	1.5	27
45	Experimental characterization of short-wavelength Ni-like soft-x-ray lasing toward the water window. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1999, 16, 2295.	0.9	19
46	Progress and perspectives of fast ignition. <i>Plasma Physics and Controlled Fusion</i> , 2004, 46, B41-B49.	0.9	18
47	Fast heating of super-solid density plasmas towards laser fusion ignition. <i>Plasma Physics and Controlled Fusion</i> , 2002, 44, B109-B119.	0.9	14
48	Interplay between caspase, Yes-associated protein, and mechanics: A possible switch between life and death?. <i>Current Opinion in Cell Biology</i> , 2020, 67, 141-146.	2.6	8
49	Three-dimensional forces beyond actomyosin contraction: lessons from fly epithelial deformation. <i>Current Opinion in Genetics and Development</i> , 2018, 51, 96-102.	1.5	7
50	Development of multichannel wave-coincidence neutron spectrometer for fast ignition experiments. <i>Review of Scientific Instruments</i> , 2006, 77, 10E727.	0.6	3
51	Prepulse Effect for Recombining Plasma Produced by Ultrashort High-Intensity Lasers. <i>Japanese Journal of Applied Physics</i> , 2001, 40, 1443-1447.	0.8	1
52	wERKing the Waves in Collective Cell Migration. <i>Developmental Cell</i> , 2020, 53, 621-622.	3.1	1
53	Hyaluronan-Mediated Motility Receptor Governs Chromosome Segregation by Regulating Microtubules Sliding Within the Bridging Fiber. <i>Advanced Biology</i> , 2021, 5, 2000493.	1.4	1