Fabio Giavazzi

List of Publications by Year
in descending order

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48	1,866	361413	276875
papers	citations	20 h-index	41 g-index

52	52	52	2057
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Functional transcription promoters at DNA double-strand breaks mediate RNA-driven phase separation of damage-response factors. Nature Cell Biology, 2019, 21, 1286-1299.	10.3	233
2	Endocytic reawakening of motility in jammed epithelia. Nature Materials, 2017, 16, 587-596.	27.5	207
3	Emerging applications of label-free optical biosensors. Nanophotonics, 2017, 6, 627-645.	6.0	140
4	Scattering information obtained by optical microscopy: Differential dynamic microscopy and beyond. Physical Review E, 2009, 80, 031403.	2.1	121
5	Unjamming overcomes kinetic and proliferation arrest in terminally differentiated cells and promotes collective motility of carcinoma. Nature Materials, 2019, 18, 1252-1263.	27.5	117
6	Flocking transitions in confluent tissues. Soft Matter, 2018, 14, 3471-3477.	2.7	114
7	Right-handed double-helix ultrashort DNA yields chiral nematic phases with both right- and left-handed director twist. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17497-17502.	7.1	91
8	Characterizing Concentrated, Multiply Scattering, and Actively Driven Fluorescent Systems with Confocal Differential Dynamic Microscopy. Physical Review Letters, 2012, 108, 218103.	7.8	90
9	A fast and simple label-free immunoassay based on a smartphone. Biosensors and Bioelectronics, 2014, 58, 395-402.	10.1	86
10	Digital Fourier microscopy for soft matter dynamics. Journal of Optics (United Kingdom), 2014, 16, 083001.	2.2	84
11	Active diffusion and advection in Drosophila oocytes result from the interplay of actin and microtubules. Nature Communications, 2017, 8, 1520.	12.8	49
12	Viscoelasticity of nematic liquid crystals at a glance. Soft Matter, 2014, 10, 3938-3949.	2.7	42
13	Differential dynamic microscopy microrheology of soft materials: A tracking-free determination of the frequency-dependent loss and storage moduli. Physical Review Materials, 2017, 1, .	2.4	42
14	Giant fluctuations and structural effects in a flocking epithelium. Journal Physics D: Applied Physics, 2017, 50, 384003.	2.8	37
15	Multispot, label-free biodetection at a phantom plasticâ€“water interface. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9350-9355.	7.1	35
16	Structure and dynamics of concentration fluctuations in a non-equilibrium dense colloidal suspension. Soft Matter, 2016, 12, 6588-6600.	2.7	31
17	European Space Agency experiments on thermodiffusion of fluid mixtures in space. European Physical Journal E, 2019, 42, 86.	1.6	28
18	Simultaneous characterization of rotational and translational diffusion of optically anisotropic particles by optical microscopy. Journal of Physics Condensed Matter, 2016, 28, 195201.	1.8	26

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19	Scaling of the spatial power spectrum of excitations at the onset of solutal convection in a nanofluid far from equilibrium. Physical Review E, 2009, 80, 015303.	2.1	24
20	Multi-spot, label-free immunoassay on reflectionless glass. Biosensors and Bioelectronics, 2015, 74, 539-545.	10.1	23
21	Equilibrium and non-equilibrium concentration fluctuations in a critical binary mixture. European Physical Journal E, 2016, 39, 103.	1.6	23
22	Label-free detection of DNA single-base mismatches using a simple reflectance-based optical technique. Physical Chemistry Chemical Physics, 2016, 18, 13395-13402.	2.8	23
23	Image windowing mitigates edge effects in Differential Dynamic Microscopy. European Physical Journal E, 2017, 40, 97.	1.6	21
24	Tracking-Free Determination of Single-Cell Displacements and Division Rates in Confluent Monolayers. Frontiers in Physics, 2018, 6, .	2.1	19
25	Differential dynamic microscopy for the characterization of polymer systems. Journal of Polymer Science, 2022, 60, 1079-1089.	3.8	18
26	Dark field differential dynamic microscopy enables accurate characterization of the roto-translational dynamics of bacteria and colloidal clusters. Journal of Physics Condensed Matter, 2018, 30, 025901.	1.8	15
27	Giant Fluctuations Induced by Thermal Diffusion in Complex Liquids. Microgravity Science and Technology, 2020, 32, 873-887.	1.4	14
28	Mutual Voronoi Tessellation in Spoke Pattern Convection. Physical Review Letters, 2008, 100, 188104.	7.8	12
29	Disentangling collective motion and local rearrangements in 2D and 3D cell assemblies. Soft Matter, 2021, 17, 3550-3559.	2.7	12
30	Multiple dynamic regimes in a coarsening foam. Journal of Physics Condensed Matter, 2021, 33, 024002.	1.8	9
31	Selective Adsorption on Fluorinated Plastic Enables the Optical Detection of Molecular Pollutants in Water. Physical Review Applied, 2016, 5, .	3.8	8
32	Multi-spot, label-free detection of viral infection in complex media by a non-reflecting surface. Sensors and Actuators B: Chemical, 2016, 223, 957-962.	7.8	8
33	Deformation profiles and microscopic dynamics of complex fluids during oscillatory shear experiments. Soft Matter, 2021, 17, 8553-8566.	2.7	8
34	Probing roto-translational diffusion of small anisotropic colloidal particles with a bright-field microscope. European Physical Journal E, 2021, 44, 61.	1.6	7
35	Hecw controls oogenesis and neuronal homeostasis by promoting the liquid state of ribonucleoprotein particles. Nature Communications, 2021, 12, 5488.	12.8	7
36	Reciprocal Space Study of Brownian Yet Non-Gaussian Diffusion of Small Tracers in a Hard-Sphere Glass. Frontiers in Physics, 0, 10, .	2.1	5

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37	Optical generation of Voronoi diagram. Optics Express, 2008, 16, 4819.	3.4	3
38	Fabrication and Optical Modeling of Microâ€Porous Membranes Indexâ€Matched with Water for Onâ€Line Sensing Applications. Macromolecular Materials and Engineering, 2020, 305, 1900701.	3.6	3
39	Bistability of Dielectrically Anisotropic Nematic Crystals and the Adaptation of Endothelial Collectives to Stress Fields. Advanced Science, 2022, , 2102148.	11.2	3
40	Geometry for a penguin-albatross rookery. Physical Review E, 2014, 89, 052706.	2.1	2
41	High-ranking alleviates male local competition in lek mating systems. Scientific Reports, 2018, 8, 15189.	3.3	2
42	Multiscale heterogeneous dynamics in two-dimensional glassy colloids. Journal of Chemical Physics, 2022, 156, 164906.	3.0	2
43	Non-invasive measurement of nuclear relative stiffness from quantitative analysis of microscopy data. European Physical Journal E, 2022, 45, .	1.6	2
44	Optimal leap angle of legged and legless insects in a landscape of uniformly distributed random obstacles. Royal Society Open Science, 2021, 8, 202279.	2.4	1
45	Multi-spot, Label-free Detection of Biomarkers in Complex Media by Reflectionless Surfaces. Procedia Engineering, 2014, 87, 58-61.	1.2	0
46	THERMOPHORETIC CONVECTION OF SILICA NANOPARTICLES. , 2007, , .		0
47	Optical Detection of Surfactants by Means of Reflective Phantom Interface Method. Lecture Notes in Electrical Engineering, 2015, , 33-37.	0.4	0
48	Portable, Multispot, Label-Free Immunoassay on a Phantom Perfluorinated Plastic. Lecture Notes in Electrical Engineering, 2015, , 13-17.	0.4	0