

# Fabio Giavazzi

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

1,866  
citations

361413

20  
h-index

276875

41  
g-index

52  
all docs

52  
docs citations

52  
times ranked

2057  
citing authors

#	ARTICLE	IF	CITATIONS
1	Differential dynamic microscopy for the characterization of polymer systems. <i>Journal of Polymer Science</i> , 2022, 60, 1079-1089.	3.8	18
2	Bistability of Dielectrically Anisotropic Nematic Crystals and the Adaptation of Endothelial Collectives to Stress Fields. <i>Advanced Science</i> , 2022, , 2102148.	11.2	3
3	Multiscale heterogeneous dynamics in two-dimensional glassy colloids. <i>Journal of Chemical Physics</i> , 2022, 156, 164906.	3.0	2
4	Non-invasive measurement of nuclear relative stiffness from quantitative analysis of microscopy data. <i>European Physical Journal E</i> , 2022, 45, .	1.6	2
5	Deformation profiles and microscopic dynamics of complex fluids during oscillatory shear experiments. <i>Soft Matter</i> , 2021, 17, 8553-8566.	2.7	8
6	Disentangling collective motion and local rearrangements in 2D and 3D cell assemblies. <i>Soft Matter</i> , 2021, 17, 3550-3559.	2.7	12
7	Probing roto-translational diffusion of small anisotropic colloidal particles with a bright-field microscope. <i>European Physical Journal E</i> , 2021, 44, 61.	1.6	7
8	Optimal leap angle of legged and legless insects in a landscape of uniformly distributed random obstacles. <i>Royal Society Open Science</i> , 2021, 8, 202279.	2.4	1
9	Hecw controls oogenesis and neuronal homeostasis by promoting the liquid state of ribonucleoprotein particles. <i>Nature Communications</i> , 2021, 12, 5488.	12.8	7
10	Multiple dynamic regimes in a coarsening foam. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 024002.	1.8	9
11	Giant Fluctuations Induced by Thermal Diffusion in Complex Liquids. <i>Microgravity Science and Technology</i> , 2020, 32, 873-887.	1.4	14
12	Fabrication and Optical Modeling of Micro-Porous Membranes Indexed-Matched with Water for On-Line Sensing Applications. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 1900701.	3.6	3
13	European Space Agency experiments on thermodiffusion of fluid mixtures in space. <i>European Physical Journal E</i> , 2019, 42, 86.	1.6	28
14	Unjamming overcomes kinetic and proliferation arrest in terminally differentiated cells and promotes collective motility of carcinoma. <i>Nature Materials</i> , 2019, 18, 1252-1263.	27.5	117
15	Functional transcription promoters at DNA double-strand breaks mediate RNA-driven phase separation of damage-response factors. <i>Nature Cell Biology</i> , 2019, 21, 1286-1299.	10.3	233
16	Flocking transitions in confluent tissues. <i>Soft Matter</i> , 2018, 14, 3471-3477.	2.7	114
17	Dark field differential dynamic microscopy enables accurate characterization of the roto-translational dynamics of bacteria and colloidal clusters. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 025901.	1.8	15
18	Tracking-Free Determination of Single-Cell Displacements and Division Rates in Confluent Monolayers. <i>Frontiers in Physics</i> , 2018, 6, .	2.1	19

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19	High-ranking alleviates male local competition in lek mating systems. <i>Scientific Reports</i> , 2018, 8, 15189.	3.3	2
20	Endocytic reawakening of motility in jammed epithelia. <i>Nature Materials</i> , 2017, 16, 587-596.	27.5	207
21	Emerging applications of label-free optical biosensors. <i>Nanophotonics</i> , 2017, 6, 627-645.	6.0	140
22	Giant fluctuations and structural effects in a flocking epithelium. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 384003.	2.8	37
23	Active diffusion and advection in <i>Drosophila</i> oocytes result from the interplay of actin and microtubules. <i>Nature Communications</i> , 2017, 8, 1520.	12.8	49
24	Image windowing mitigates edge effects in Differential Dynamic Microscopy. <i>European Physical Journal E</i> , 2017, 40, 97.	1.6	21
25	Differential dynamic microscopy microrheology of soft materials: A tracking-free determination of the frequency-dependent loss and storage moduli. <i>Physical Review Materials</i> , 2017, 1, .	2.4	42
26	Simultaneous characterization of rotational and translational diffusion of optically anisotropic particles by optical microscopy. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 195201.	1.8	26
27	Structure and dynamics of concentration fluctuations in a non-equilibrium dense colloidal suspension. <i>Soft Matter</i> , 2016, 12, 6588-6600.	2.7	31
28	Selective Adsorption on Fluorinated Plastic Enables the Optical Detection of Molecular Pollutants in Water. <i>Physical Review Applied</i> , 2016, 5, .	3.8	8
29	Equilibrium and non-equilibrium concentration fluctuations in a critical binary mixture. <i>European Physical Journal E</i> , 2016, 39, 103.	1.6	23
30	Label-free detection of DNA single-base mismatches using a simple reflectance-based optical technique. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 13395-13402.	2.8	23
31	Multi-spot, label-free detection of viral infection in complex media by a non-reflecting surface. <i>Sensors and Actuators B: Chemical</i> , 2016, 223, 957-962.	7.8	8
32	Multi-spot, label-free immunoassay on reflectionless glass. <i>Biosensors and Bioelectronics</i> , 2015, 74, 539-545.	10.1	23
33	Optical Detection of Surfactants by Means of Reflective Phantom Interface Method. <i>Lecture Notes in Electrical Engineering</i> , 2015, , 33-37.	0.4	0
34	Portable, Multispot, Label-Free Immunoassay on a Phantom Perfluorinated Plastic. <i>Lecture Notes in Electrical Engineering</i> , 2015, , 13-17.	0.4	0
35	Multi-spot, Label-free Detection of Biomarkers in Complex Media by Reflectionless Surfaces. <i>Procedia Engineering</i> , 2014, 87, 58-61.	1.2	0
36	Geometry for a penguin-albatross rookery. <i>Physical Review E</i> , 2014, 89, 052706.	2.1	2

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37	A fast and simple label-free immunoassay based on a smartphone. <i>Biosensors and Bioelectronics</i> , 2014, 58, 395-402.	10.1	86
38	Viscoelasticity of nematic liquid crystals at a glance. <i>Soft Matter</i> , 2014, 10, 3938-3949.	2.7	42
39	Digital Fourier microscopy for soft matter dynamics. <i>Journal of Optics (United Kingdom)</i> , 2014, 16, 083001.	2.2	84
40	Multispot, label-free biodetection at a phantom plastic-water interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9350-9355.	7.1	35
41	Characterizing Concentrated, Multiply Scattering, and Actively Driven Fluorescent Systems with Confocal Differential Dynamic Microscopy. <i>Physical Review Letters</i> , 2012, 108, 218103.	7.8	90
42	Right-handed double-helix ultrashort DNA yields chiral nematic phases with both right- and left-handed director twist. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 17497-17502.	7.1	91
43	Scaling of the spatial power spectrum of excitations at the onset of solutal convection in a nanofluid far from equilibrium. <i>Physical Review E</i> , 2009, 80, 015303.	2.1	24
44	Scattering information obtained by optical microscopy: Differential dynamic microscopy and beyond. <i>Physical Review E</i> , 2009, 80, 031403.	2.1	121
45	Optical generation of Voronoi diagram. <i>Optics Express</i> , 2008, 16, 4819.	3.4	3
46	Mutual Voronoi Tessellation in Spoke Pattern Convection. <i>Physical Review Letters</i> , 2008, 100, 188104.	7.8	12
47	THERMOPHORETIC CONVECTION OF SILICA NANOPARTICLES. , 2007, , .		0
48	Reciprocal Space Study of Brownian Yet Non-Gaussian Diffusion of Small Tracers in a Hard-Sphere Glass. <i>Frontiers in Physics</i> , 0, 10, .	2.1	5