Daniele Vigolo

List of Publications by Year
in descending order

39 papers	1,602 citations	331259 21 h-index	301761 39 g-index
40 all docs	40 docs citations	40 times ranked	1846 citing authors

#	Article	IF	Citations
1	Does Thermophoretic Mobility Depend on Particle Size?. Physical Review Letters, 2008, 100, 108303.	2.9	219
2	Contact Lens Technology: From Fundamentals to Applications. Advanced Healthcare Materials, 2019, 8, e1900368.	3.9	148
3	Thermophoresis and Thermoelectricity in Surfactant Solutions. Langmuir, 2010, 26, 7792-7801.	1.6	141
4	Thermophoresis: microfluidics characterization and separation. Soft Matter, 2010, 6, 3489.	1.2	118
5	Biomolecular condensates undergo a generic shear-mediated liquid-to-solid transition. Nature Nanotechnology, 2020, 15, 841-847.	15.6	101
6	Nanoemulsions obtained via bubble-bursting at a compound interface. Nature Physics, 2014, 10, 606-612.	6.5	85
7	Unexpected trapping of particles at a T junction. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4770-4775.	3.3	74
8	Laser-inscribed contact lens sensors for the detection of analytes in the tear fluid. Sensors and Actuators B: Chemical, 2020, 317, 128183.	4.0	66
9	Thermophoresis of microemulsion droplets: Size dependence of the Soret effect. Physical Review E, 2007, 75, 040401.	0.8	59
10	Integration of paper microfluidic sensors into contact lenses for tear fluid analysis. Lab on A Chip, 2020, 20, 3970-3979.	3.1	49
11	Contact lenses for continuous corneal temperature monitoring. RSC Advances, 2019, 9, 11433-11442.	1.7	44
12	Kinetics of sedimentation in colloidal suspensions. Journal of Physics Condensed Matter, 2008, 20, 494219.	0.7	39
13	A portable device for temperature control along microchannels. Lab on A Chip, 2010, 10, 795.	3.1	37
14	Drop formation in microfluidic cross-junction: jetting to dripping to jetting transition. Microfluidics and Nanofluidics, 2019, 23, 1.	1.0	37
15	Giant thermophoresis of poly(N-isopropylacrylamide) microgel particles. Soft Matter, 2012, 8, 5857.	1.2	36
16	Using Discrete Multi-Physics for studying the dynamics of emboli in flexible venous valves. Computers and Fluids, 2018, 166, 57-63.	1.3	34
17	Modelling and simulation of flow and agglomeration in deep veins valves using discrete multi physics. Computers in Biology and Medicine, 2017, 89, 96-103.	3.9	32
18	Flow dependent performance of microfluidic microbial fuel cells. Physical Chemistry Chemical Physics, 2014, 16, 12535.	1.3	27

#	Article	IF	Citations
19	Investigating the fluid dynamics of rapid processes within microfluidic devices using bright-field microscopy. Lab on A Chip, 2015, 15, 2140-2144.	3.1	23
20	Controllable generation and encapsulation of alginate fibers using droplet-based microfluidics. Lab on A Chip, 2016, 16, 59-64.	3.1	23
21	Continuous Isotropic-Nematic Transition in Amyloid Fibril Suspensions Driven by Thermophoresis. Scientific Reports, 2017, 7, 1211.	1.6	22
22	Labâ€onâ€aâ€Contact Lens Platforms Fabricated by Multiâ€Axis Femtosecond Laser Ablation. Small, 2021, 17, e2102008.	5.2	21
23	An experimental and theoretical investigation of particleâ€"wall impacts in a T-junction. Journal of Fluid Mechanics, 2013, 727, 236-255.	1.4	20
24	Ghost Particle Velocimetry as an alternative to Î¼PIV for micro/milli-fluidic devices. Chemical Engineering Research and Design, 2018, 133, 183-194.	2.7	18
25	Mass Transfer Accompanying Coalescence of Surfactant-Laden and Surfactant-Free Drop in a Microfluidic Channel. Langmuir, 2019, 35, 9184-9193.	1.6	16
26	The role of valve stiffness in the insurgence of deep vein thrombosis. Communications Materials, 2020, 1, 65.	2.9	16
27	Study of drop coalescence and mixing in microchannel using Ghost Particle Velocimetry. Chemical Engineering Research and Design, 2018, 132, 881-889.	2.7	15
28	Effect of surfactant addition and viscosity of the continuous phase on flow fields and kinetics of drop formation in a flow-focusing microfluidic device. Chemical Engineering Science, 2022, 248, 117183.	1.9	13
29	Microfluidic Templating of Spatially Inhomogeneous Protein Microgels. Small, 2020, 16, e2000432.	5.2	11
30	Microfluidics approach to investigate foam hysteretic behaviour. Microfluidics and Nanofluidics, 2019, 23, 1.	1.0	9
31	Realâ€Time PEGDAâ€Based Microgel Generation and Encapsulation in Microdroplets. Advanced Materials Technologies, 2016, 1, 1600028.	3.0	8
32	Deformable and Robust Coreâ€"Shell Protein Microcapsules Templated by Liquidâ€"Liquid Phaseâ€Separated Microdroplets. Advanced Materials Interfaces, 2021, 8, 2101071.	1.9	8
33	Optimisation of bacterial release from a stable microfluidic-generated water-in-oil-in-water emulsion. RSC Advances, 2021, 11, 7738-7749.	1.7	8
34	Micromechanics of soft materials using microfluidics. MRS Bulletin, 2022, 47, 119-126.	1.7	8
35	Facile tuning of the mechanical properties of a biocompatible soft material. Scientific Reports, 2019, 9, 7125.	1.6	4
36	Modelling Particle Agglomeration on through Elastic Valves under Flow. ChemEngineering, 2021, 5, 40.	1.0	4

#	Article	IF	Citations
37	Stretchable Nanostructures as Optomechanical Strain Sensors for Ophthalmic Applications. ACS Applied Polymer Materials, 2021, 3, 5416-5424.	2.0	4
38	Microfluidic Templating: Microfluidic Templating of Spatially Inhomogeneous Protein Microgels (Small 32/2020). Small, 2020, 16, 2070178.	5.2	2
39	Combined Effect of Matrix Topography and Stiffness on Neutrophil Shape and Motility. Advanced Biology, 2022, 6, e2101312.	1.4	2