

Eleonora Secchi

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,508
citations

516710

16
h-index

477307

29
g-index

40
all docs

40
docs citations

40
times ranked

1914
citing authors

#	ARTICLE	IF	CITATIONS
1	Massive radius-dependent flow slippage in carbon nanotubes. <i>Nature</i> , 2016, 537, 210-213.	27.8	537
2	Magnetic cilia carpets with programmable metachronal waves. <i>Nature Communications</i> , 2020, 11, 2637.	12.8	172
3	Scaling Behavior for Ionic Transport and its Fluctuations in Individual Carbon Nanotubes. <i>Physical Review Letters</i> , 2016, 116, 154501.	7.8	158
4	Not Just Going with the Flow: The Effects of Fluid Flow on Bacteria and Plankton. <i>Annual Review of Cell and Developmental Biology</i> , 2019, 35, 213-237.	9.4	71
5	The effect of flow on swimming bacteria controls the initial colonization of curved surfaces. <i>Nature Communications</i> , 2020, 11, 2851.	12.8	66
6	Biopolymer gels with "physical" cross-links: gelation kinetics, aging, heterogeneous dynamics, and macroscopic mechanical properties. <i>Soft Matter</i> , 2013, 9, 3931.	2.7	55
7	Environmental, Microbiological, and Immunological Features of Bacterial Biofilms Associated with Implanted Medical Devices. <i>Clinical Microbiology Reviews</i> , 2022, 35, e0022120.	13.6	43
8	What buoyancy really is. A generalized Archimedes' principle for sedimentation and ultracentrifugation. <i>Soft Matter</i> , 2012, 8, 7112.	2.7	37
9	Ghost Particle Velocimetry: Accurate 3D Flow Visualization Using Standard Lab Equipment. <i>Physical Review Letters</i> , 2013, 111, 048101.	7.8	36
10	Dynamic arrest and aging of biomolecular condensates are modulated by low-complexity domains, RNA and biochemical activity. <i>Nature Communications</i> , 2022, 13, .	12.8	35
11	The structural role of bacterial eDNA in the formation of biofilm streamers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2113723119.	7.1	30
12	Time-evolution scenarios for short-range depletion gels subjected to the gravitational stress. <i>Soft Matter</i> , 2014, 10, 5296.	2.7	22
13	Encounter rates between bacteria and small sinking particles. <i>New Journal of Physics</i> , 2020, 22, 043016.	2.9	22
14	Formation and acceleration of uniformly filled ellipsoidal electron bunches obtained via space-charge-driven expansion from a cesium-telluride photocathode. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2013, 16, .	1.8	21
15	External and internal gelation of pectin solutions: microscopic dynamics versus macroscopic rheology. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 464106.	1.8	20
16	Mapping the local viscosity of non-Newtonian fluids flowing through disordered porous structures. <i>Scientific Reports</i> , 2020, 10, 11733.	3.3	19
17	The unbearable heaviness of colloids: facts, surprises, and puzzles in sedimentation. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 284109.	1.8	18
18	Intermittent turbulence in flowing bacterial suspensions. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160175.	3.4	17

#	ARTICLE	IF	CITATIONS
19	On the general concept of buoyancy in sedimentation and ultracentrifugation. <i>Physical Biology</i> , 2013, 10, 045005.	1.8	14
20	Competition between growth and shear stress drives intermittency in preferential flow paths in porous medium biofilms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	14
21	Polysaccharide-based hydrogels with tunable composition as 3D cell culture systems. <i>International Journal of Artificial Organs</i> , 2018, 41, 213-222.	1.4	13
22	Spatially: resolved heterogeneous dynamics in a strong colloidal gel. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 194120.	1.8	12
23	Equilibrium concentration profiles and sedimentation kinetics of colloidal gels under gravitational stress. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 284103.	1.8	11
24	The role of surface adhesion on the macroscopic wrinkling of biofilms. <i>ELife</i> , 0, 11, .	6.0	11
25	A microfluidic platform for characterizing the structure and rheology of biofilm streamers. <i>Soft Matter</i> , 2022, 18, 3878-3890.	2.7	10
26	The Landau-€Squire plume. <i>Journal of Fluid Mechanics</i> , 2017, 826, .	3.4	9
27	Sedimentation equilibrium and the generalized Archimedes' principle. <i>Journal of Chemical Physics</i> , 2013, 138, 114907.	3.0	8
28	Localization in Flow of Non-Newtonian Fluids Through Disordered Porous Media. <i>Frontiers in Physics</i> , 2021, 9, .	2.1	7
29	Sequential capillarity-assisted particle assembly in a microfluidic channel. <i>Lab on A Chip</i> , 2021, 21, 888-895.	6.0	6
30	An interdisciplinary and application-oriented approach to teach microfluidics. <i>Biomicrofluidics</i> , 2021, 15, 014104.	2.4	3
31	Patterning of Microorganisms and Microparticles through Sequential Capillarity-assisted Assembly. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	0
32	Transport of <i>Pseudomonas aeruginosa</i> in Polymer Solutions. <i>Frontiers in Physics</i> , 0, 10, .	2.1	0