Eugenia Corvera Poire

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Contact line dynamics of pulsatile fluid interfaces modulated by patterned substrates. Physics of Fluids, 2022, 34, 052001.	4.0	0
2	Pulsatile parallel flow of air and a viscoelastic fluid with multiple characteristic times. An application to mucus in the trachea and the frequency of cough. Journal of Physics Condensed Matter, 2022, 34, 314003.	1.8	2
3	Singular behavior of microfluidic pulsatile flow due to dynamic curving of air-fluid interfaces. Physical Review Fluids, 2021, 6, .	2.5	7
4	Estimating Central Pulse Pressure From Blood Flow by Identifying the Main Physical Determinants of Pulse Pressure Amplification. Frontiers in Physiology, 2021, 12, 608098.	2.8	10
5	A continuum model to study fluid dynamics within oscillating elastic nanotubes. Journal of Fluid Mechanics, 2021, 916, .	3.4	4
6	Experimental Resonances in Viscoelastic Microfluidics. Frontiers in Physics, 2021, 9, .	2.1	8
7	Cooperation and competition of viscoelastic fluids and elastomeric microtubes subject to pulsatile forcing. Physical Review Fluids, 2020, 5, .	2.5	5
8	Dynamic response of a compressible binary fluid mixture. Physical Review Fluids, 2020, 5, .	2.5	7
9	Resonances in the response of fluidic networks inherent to the cooperation between elasticity and bifurcations. Royal Society Open Science, 2019, 6, 190661.	2.4	5
10	Enhanced imbibition from the cooperation between wetting and inertia via pulsatile forcing. Physics of Fluids, 2019, 31, .	4.0	6
11	Stream of droplets as an actuator for oscillatory flows in microfluidics. Microfluidics and Nanofluidics, 2019, 23, 1.	2.2	9
12	An analytical framework to determine flow velocities within nanotubes from their vibration frequencies. Physics of Fluids, 2018, 30, 122001.	4.0	7
13	When do redundant fluidic networks outperform non-redundant ones?. Europhysics Letters, 2017, 117, 64002.	2.0	5
14	Microfluidic flow spectrometer. Journal of Micromechanics and Microengineering, 2017, 27, 077001.	2.6	7
15	Resonances of Newtonian fluids in elastomeric microtubes. Physics of Fluids, 2017, 29, 122003.	4.0	10
16	A Novel Analytical Approach to Pulsatile Blood Flow in the Arterial Network. Annals of Biomedical Engineering, 2016, 44, 3047-3068.	2.5	29
17	Obstructions in Vascular Networks: Relation Between Network Morphology and Blood Supply. PLoS ONE, 2015, 10, e0128111.	2.5	12
18	Flow and anastomosis in vascular networks. Journal of Theoretical Biology, 2013, 317, 257-270.	1.7	14

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19	Controlling Viscoelastic Flow in Microchannels with Slip. Langmuir, 2011, 27, 2075-2079.	3.5	19
20	Pinning and Avalanches in Hydrophobic Microchannels. Physical Review Letters, 2011, 106, 194501.	7.8	27
21	Tumor Angiogenesis and Vascular Patterning: A Mathematical Model. PLoS ONE, 2011, 6, e19989.	2.5	104
22	A plausible explanation for heart rates in mammals. Journal of Theoretical Biology, 2010, 265, 599-603.	1.7	20
23	Frequency-Induced Stratification in Viscoelastic Microfluidics. Langmuir, 2010, 26, 15084-15086.	3.5	8
24	Experiments of periodic forcing of Saffman-Taylor fingers. Physical Review E, 2008, 77, 036207.	2.1	1
25	Dynamic Characterization of Permeabilities and Flows in Microchannels. Physical Review Letters, 2008, 101, 224501.	7.8	16
26	Controlling viscoelastic flow by tuning frequency during occlusions. Physical Review E, 2007, 76, 026301.	2.1	23
27	Maximizing the dynamic permeability during occlusions. European Physical Journal: Special Topics, 2007, 143, 95-100.	2.6	1
28	Pattern Formation and Morphology Evolution in Langmuir Monolayers. Journal of Physical Chemistry B, 2006, 110, 4824-4835.	2.6	33
29	Phase field approach to spatial perturbations in normal Saffman-Taylor fingers. Physical Review E, 2006, 73, 066308.	2.1	5
30	Fluctuations in Saffman-Taylor fingers with quenched disorder. Physical Review E, 2006, 73, 046302.	2.1	5
31	Growth and morphology in Langmuir monolayers. Europhysics Letters, 2006, 74, 799-805.	2.0	8
32	Lateral instability in normal viscous fingers. Physical Review E, 2005, 71, 016312.	2.1	7
33	Viscoelastic fingering with a pulsed pressure signal. Journal of Physics Condensed Matter, 2004, 16, S2055-S2060.	1.8	6
34	Phase-field model of Hele-Shaw flows in the high-viscosity contrast regime. Physical Review E, 2003, 68, 046310.	2.1	21
35	Phase equilibria of confined liquid crystals. Molecular Physics, 2002, 100, 2597-2604.	1.7	17
36	Morphological instability at the early stages of heteroepitaxial growth on vicinal surfaces. Journal of Physics Condensed Matter, 2002, 14, L49-L55.	1.8	0

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37	Viscous fingering in non-Newtonian fluids. Journal of Fluid Mechanics, 2002, 469, 237-256.	3.4	144
38	Self organized array of quantum nanostructures via a strain induced morphological instability. Materials Research Society Symposia Proceedings, 2001, 696, 1.	0.1	0
39	Self Organized Array of Quantum Nanostructures Via a Strain Induced Morphological Instability. Materials Research Society Symposia Proceedings, 2001, 707, 331.	0.1	0
40	Pushing a non-Newtonian fluid in a Hele-Shaw cell: From fingers to needles. Physics of Fluids, 1999, 11, 1757-1767.	4.0	57
41	Finger Behavior of a Shear Thinning Fluid in a Hele-Shaw Cell. Physical Review Letters, 1998, 81, 2048-2051.	7.8	42
42	Saffman-Taylor fingers with anisotropic surface tension. Physica A: Statistical Mechanics and Its Applications, 1995, 220, 48-59.	2.6	2
43	Steady states for viscous fingers with anisotropic surface tension. Physical Review E, 1995, 52, 4063-4067.	2.1	5
44	Linear-solvability condition in the Saffman-Taylor problem. Physical Review E, 1993, 48, 964-968.	2.1	1
45	Application of finite-size scaling to the Pink model for lipid bilayers. Physical Review E, 1993, 47, 696-703.	2.1	15
46	Analytical solution of the mean-spherical approximation for a system of hard spheres with a surface adhesion. Physical Review A, 1989, 39, 371-373.	2.5	34