

# Eugenia Corvera Poire

## List of Publications by Year in descending order

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46  
papers

770  
citations

566801

15  
h-index

525886

27  
g-index

49  
all docs

49  
docs citations

49  
times ranked

576  
citing authors

#	ARTICLE	IF	CITATIONS
1	Viscous fingering in non-Newtonian fluids. <i>Journal of Fluid Mechanics</i> , 2002, 469, 237-256.	1.4	144
2	Tumor Angiogenesis and Vascular Patterning: A Mathematical Model. <i>PLoS ONE</i> , 2011, 6, e19989.	1.1	104
3	Pushing a non-Newtonian fluid in a Hele-Shaw cell: From fingers to needles. <i>Physics of Fluids</i> , 1999, 11, 1757-1767.	1.6	57
4	Finger Behavior of a Shear Thinning Fluid in a Hele-Shaw Cell. <i>Physical Review Letters</i> , 1998, 81, 2048-2051.	2.9	42
5	Analytical solution of the mean-spherical approximation for a system of hard spheres with a surface adhesion. <i>Physical Review A</i> , 1989, 39, 371-373.	1.0	34
6	Pattern Formation and Morphology Evolution in Langmuir Monolayers. <i>Journal of Physical Chemistry B</i> , 2006, 110, 4824-4835.	1.2	33
7	A Novel Analytical Approach to Pulsatile Blood Flow in the Arterial Network. <i>Annals of Biomedical Engineering</i> , 2016, 44, 3047-3068.	1.3	29
8	Pinning and Avalanches in Hydrophobic Microchannels. <i>Physical Review Letters</i> , 2011, 106, 194501.	2.9	27
9	Controlling viscoelastic flow by tuning frequency during occlusions. <i>Physical Review E</i> , 2007, 76, 026301.	0.8	23
10	Phase-field model of Hele-Shaw flows in the high-viscosity contrast regime. <i>Physical Review E</i> , 2003, 68, 046310.	0.8	21
11	A plausible explanation for heart rates in mammals. <i>Journal of Theoretical Biology</i> , 2010, 265, 599-603.	0.8	20
12	Controlling Viscoelastic Flow in Microchannels with Slip. <i>Langmuir</i> , 2011, 27, 2075-2079.	1.6	19
13	Phase equilibria of confined liquid crystals. <i>Molecular Physics</i> , 2002, 100, 2597-2604.	0.8	17
14	Dynamic Characterization of Permeabilities and Flows in Microchannels. <i>Physical Review Letters</i> , 2008, 101, 224501.	2.9	16
15	Application of finite-size scaling to the Pink model for lipid bilayers. <i>Physical Review E</i> , 1993, 47, 696-703.	0.8	15
16	Flow and anastomosis in vascular networks. <i>Journal of Theoretical Biology</i> , 2013, 317, 257-270.	0.8	14
17	Obstructions in Vascular Networks: Relation Between Network Morphology and Blood Supply. <i>PLoS ONE</i> , 2015, 10, e0128111.	1.1	12
18	Resonances of Newtonian fluids in elastomeric microtubes. <i>Physics of Fluids</i> , 2017, 29, 122003.	1.6	10

#	ARTICLE	IF	CITATIONS
19	Estimating Central Pulse Pressure From Blood Flow by Identifying the Main Physical Determinants of Pulse Pressure Amplification. <i>Frontiers in Physiology</i> , 2021, 12, 608098.	1.3	10
20	Stream of droplets as an actuator for oscillatory flows in microfluidics. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	1.0	9
21	Growth and morphology in Langmuir monolayers. <i>Europhysics Letters</i> , 2006, 74, 799-805.	0.7	8
22	Frequency-Induced Stratification in Viscoelastic Microfluidics. <i>Langmuir</i> , 2010, 26, 15084-15086.	1.6	8
23	Experimental Resonances in Viscoelastic Microfluidics. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	8
24	Lateral instability in normal viscous fingers. <i>Physical Review E</i> , 2005, 71, 016312.	0.8	7
25	Microfluidic flow spectrometer. <i>Journal of Micromechanics and Microengineering</i> , 2017, 27, 077001.	1.5	7
26	An analytical framework to determine flow velocities within nanotubes from their vibration frequencies. <i>Physics of Fluids</i> , 2018, 30, 122001.	1.6	7
27	Singular behavior of microfluidic pulsatile flow due to dynamic curving of air-fluid interfaces. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	7
28	Dynamic response of a compressible binary fluid mixture. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	7
29	Viscoelastic fingering with a pulsed pressure signal. <i>Journal of Physics Condensed Matter</i> , 2004, 16, S2055-S2060.	0.7	6
30	Enhanced imbibition from the cooperation between wetting and inertia via pulsatile forcing. <i>Physics of Fluids</i> , 2019, 31, .	1.6	6
31	Steady states for viscous fingers with anisotropic surface tension. <i>Physical Review E</i> , 1995, 52, 4063-4067.	0.8	5
32	Phase field approach to spatial perturbations in normal Saffman-Taylor fingers. <i>Physical Review E</i> , 2006, 73, 066308.	0.8	5
33	Fluctuations in Saffman-Taylor fingers with quenched disorder. <i>Physical Review E</i> , 2006, 73, 046302.	0.8	5
34	When do redundant fluidic networks outperform non-redundant ones?. <i>Europhysics Letters</i> , 2017, 117, 64002.	0.7	5
35	Resonances in the response of fluidic networks inherent to the cooperation between elasticity and bifurcations. <i>Royal Society Open Science</i> , 2019, 6, 190661.	1.1	5
36	Cooperation and competition of viscoelastic fluids and elastomeric microtubes subject to pulsatile forcing. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	5

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37	A continuum model to study fluid dynamics within oscillating elastic nanotubes. <i>Journal of Fluid Mechanics</i> , 2021, 916, .	1.4	4
38	Saffman-Taylor fingers with anisotropic surface tension. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1995, 220, 48-59.	1.2	2
39	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. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 314003.	0.7	2
40	Linear-solvability condition in the Saffman-Taylor problem. <i>Physical Review E</i> , 1993, 48, 964-968.	0.8	1
41	Maximizing the dynamic permeability during occlusions. <i>European Physical Journal: Special Topics</i> , 2007, 143, 95-100.	1.2	1
42	Experiments of periodic forcing of Saffman-Taylor fingers. <i>Physical Review E</i> , 2008, 77, 036207.	0.8	1
43	Self organized array of quantum nanostructures via a strain induced morphological instability. <i>Materials Research Society Symposia Proceedings</i> , 2001, 696, 1.	0.1	0
44	Self Organized Array of Quantum Nanostructures Via a Strain Induced Morphological Instability. <i>Materials Research Society Symposia Proceedings</i> , 2001, 707, 331.	0.1	0
45	Morphological instability at the early stages of heteroepitaxial growth on vicinal surfaces. <i>Journal of Physics Condensed Matter</i> , 2002, 14, L49-L55.	0.7	0
46	Contact line dynamics of pulsatile fluid interfaces modulated by patterned substrates. <i>Physics of Fluids</i> , 2022, 34, 052001.	1.6	0