

# J Rodrigo Velez-Cordero

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

19  
papers

380  
citations

9  
h-index

19  
g-index

20  
ext. papers

455  
ext. citations

3.6  
avg, IF

3.76  
L-index

#	Paper	IF	Citations
19	Ultra-slow and arrested density-fluctuations as precursor of spatial heterogeneity. <i>Physics of Fluids</i> , <b>2022</b> , 34, 011704	4.4	1
18	Spatially heterogeneous dynamics and locally arrested density fluctuations from first principles. <i>Physics of Fluids</i> , <b>2022</b> , 34, 033107	4.4	0
17	Fiber optic probe with functional polymer composites for hyperthermia. <i>Biomedical Optics Express</i> , <b>2021</b> , 12, 4730-4744	3.5	0
16	Photomechanical Polymer Nanocomposites for Drug Delivery Devices. <i>Molecules</i> , <b>2021</b> , 26,	4.8	2
15	Transport of Colloids along Corners: Visualization of Evaporation-Induced Flows beyond the Axisymmetric Condition. <i>Langmuir</i> , <b>2016</b> , 32, 8171-81	4	1
14	Photothermal Effects and Applications of Polydimethylsiloxane Membranes with Carbon Nanoparticles. <i>Polymers</i> , <b>2016</b> , 8,	4.5	19
13	Heat generation and conduction in PDMS-carbon nanoparticle membranes irradiated with optical fibers. <i>International Journal of Thermal Sciences</i> , <b>2015</b> , 96, 12-22	4.1	33
12	Controlled Deposition of Polymer Coatings on Cylindrical Photonic Devices. <i>Journal of Lightwave Technology</i> , <b>2015</b> , 33, 176-182	4	7
11	On the Motion of Carbon Nanotube Clusters near Optical Fiber Tips: Thermophoresis, Radiative Pressure, and Convection Effects. <i>Langmuir</i> , <b>2015</b> , 31, 10066-75	4	8
10	An optopneumatic piston for microfluidics. <i>Lab on A Chip</i> , <b>2015</b> , 15, 1335-42	7.2	4
9	Viscous pumping inspired by flexible propulsion. <i>Bioinspiration and Biomimetics</i> , <b>2014</b> , 9, 036007	2.6	5
8	Compact bubble clusters in Newtonian and non-Newtonian liquids. <i>Physics of Fluids</i> , <b>2014</b> , 26, 053101	4.4	12
7	Thermocapillary flow in glass tubes coated with photoresponsive layers. <i>Langmuir</i> , <b>2014</b> , 30, 5326-36	4	10
6	Waving transport and propulsion in a generalized Newtonian fluid. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2013</b> , 199, 37-50	2.7	91
5	Study of the properties of bubbly flows in Boger-type fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2012</b> , 175-176, 1-9	2.7	18
4	On the deformation of gas bubbles in liquids. <i>Physics of Fluids</i> , <b>2012</b> , 24, 043303	4.4	95
3	Bubble Clusters in Associative Polymers. <i>Environmental Science and Engineering</i> , <b>2012</b> , 497-498	0.2	1

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| 2 | Bubble cluster formation in shear-thinning inelastic bubbly columns. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2011</b> , 166, 32-41                               | 2.7 | 25 |
| 1 | Hydrodynamic interaction between a pair of bubbles ascending in shear-thinning inelastic fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2011</b> , 166, 118-132 | 2.7 | 48 |