

François Detcheverry

List of Publications by Year in descending order

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27
papers

2,498
citations

430754

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docs citations

28
times ranked

2575
citing authors

#	ARTICLE	IF	CITATIONS
1	Strong and fast rising pressure waves emitted by plasmonic vapor nanobubbles. <i>Physical Review Research</i> , 2021, 3, .	1.3	11
2	Role of Marangoni forces in the velocity of symmetric interfacial swimmers. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	7
3	Enhanced Heat Transfer with Metal-Dielectric Core-Shell Nanoparticles. <i>Physical Review Applied</i> , 2020, 13, .	1.5	19
4	Self-propulsion of symmetric chemically active particles: Point-source model and experiments on camphor disks. <i>Physical Review E</i> , 2019, 99, 062605.	0.8	40
5	Implicit Medium Model for Fractal Aggregate Polymer Nanocomposites: Linear Viscoelastic Properties. <i>Macromolecules</i> , 2019, 52, 2021-2032.	2.2	7
6	Generalized run-and-turn motions: From bacteria to Lévy walks. <i>Physical Review E</i> , 2017, 96, 012415.	0.8	30
7	Contact enhancement of locomotion in spreading cell colonies. <i>Nature Physics</i> , 2017, 13, 999-1005.	6.5	32
8	Thermally activated creep and fluidization in flowing disordered materials. <i>Europhysics Letters</i> , 2016, 116, 46003.	0.7	20
9	Optimal shape of entrances for a frictionless nanochannel. <i>Physical Review Fluids</i> , 2016, 1, .	1.0	10
10	Anomalous $\langle \dot{\gamma} \rangle$ Potential in Foam Films. <i>Physical Review Letters</i> , 2014, 113, 088301.	2.9	35
11	Thermal fluctuations of hydrodynamic flows in nanochannels. <i>Physical Review E</i> , 2013, 88, 012106.	0.8	26
12	Optimizing water permeability through the hourglass shape of aquaporins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16367-16372.	3.3	194
13	Nonbulk Complex Structures in Thin Films of Symmetric Block Copolymers on Chemically Nanopatterned Surfaces. <i>Macromolecules</i> , 2012, 45, 3986-3992.	2.2	40
14	Thermal Fluctuations in Nanofluidic Transport. <i>Physical Review Letters</i> , 2012, 109, 024501.	2.9	46
15	Morphologies of Linear Triblock Copolymers from Monte Carlo Simulations. <i>Macromolecules</i> , 2011, 44, 5490-5497.	2.2	51
16	Cross-sectional Imaging of Block Copolymer Thin Films on Chemically Patterned Surfaces. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2010, 23, 149-154.	0.1	14
17	Shape control and density multiplication of cylinder-forming ternary block copolymer-homopolymer blend thin films on chemical patterns. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010, 28, C6B24-C6B29.	0.6	7
18	Graphoepitaxial assembly of asymmetric ternary blends of block copolymers and homopolymers. <i>Nanotechnology</i> , 2010, 21, 495301.	1.3	14

#	ARTICLE	IF	CITATIONS
19	Interpolation in the Directed Assembly of Block Copolymers on Nanopatterned Substrates: Simulation and Experiments. <i>Macromolecules</i> , 2010, 43, 3446-3454.	2.2	131
20	Simulations of theoretically informed coarse grain models of polymeric systems. <i>Faraday Discussions</i> , 2010, 144, 111-125.	1.6	53
21	Directed Assembly of a Cylinder-Forming Diblock Copolymer: Topographic and Chemical Patterns. <i>Macromolecules</i> , 2010, 43, 6495-6504.	2.2	57
22	Monte Carlo Simulation of Coarse Grain Polymeric Systems. <i>Physical Review Letters</i> , 2009, 102, 197801.	2.9	126
23	Theoretically informed coarse grain simulations of block copolymer melts: method and applications. <i>Soft Matter</i> , 2009, 5, 4858.	1.2	91
24	Hierarchical Assembly of Nanoparticle Superstructures from Block Copolymer-Nanoparticle Composites. <i>Physical Review Letters</i> , 2008, 100, 148303.	2.9	126
25	Monte Carlo Simulations of a Coarse Grain Model for Block Copolymers and Nanocomposites. <i>Macromolecules</i> , 2008, 41, 4989-5001.	2.2	198
26	Density Multiplication and Improved Lithography by Directed Block Copolymer Assembly. <i>Science</i> , 2008, 321, 936-939.	6.0	1,099
27	The Physics of Capillary Condensation in Disordered Mesoporous Materials: A Unifying Theoretical Description. <i>Adsorption</i> , 2005, 11, 115-119.	1.4	13