FranÃ§ois Detcheverry

List of Publications by Year
in descending order

27	2,498	430754	501076
papers	citations	18 h-index	28 g-index

28	28	28	2575
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Density Multiplication and Improved Lithography by Directed Block Copolymer Assembly. Science, 2008, 321, 936-939.	6.0	1,099
2	Monte Carlo Simulations of a Coarse Grain Model for Block Copolymers and Nanocomposites. Macromolecules, 2008, 41, 4989-5001.	2.2	198
3	Optimizing water permeability through the hourglass shape of aquaporins. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16367-16372.	3.3	194
4	Interpolation in the Directed Assembly of Block Copolymers on Nanopatterned Substrates: Simulation and Experiments. Macromolecules, 2010, 43, 3446-3454.	2.2	131
5	Hierarchical Assembly of Nanoparticle Superstructures from Block Copolymer-Nanoparticle Composites. Physical Review Letters, 2008, 100, 148303.	2.9	126
6	MonteÂCarlo Simulation of Coarse Grain Polymeric Systems. Physical Review Letters, 2009, 102, 197801.	2.9	126
7	Theoretically informed coarse grain simulations of block copolymer melts: method and applications. Soft Matter, 2009, 5, 4858.	1.2	91
8	Directed Assembly of a Cylinder-Forming Diblock Copolymer: Topographic and Chemical Patterns. Macromolecules, 2010, 43, 6495-6504.	2.2	57
9	Simulations of theoretically informed coarse grain models of polymeric systems. Faraday Discussions, 2010, 144, 111-125.	1.6	53
10	Morphologies of Linear Triblock Copolymers from Monte Carlo Simulations. Macromolecules, 2011, 44, 5490-5497.	2.2	51
11	Thermal Fluctuations in Nanofluidic Transport. Physical Review Letters, 2012, 109, 024501.	2.9	46
12	Nonbulk Complex Structures in Thin Films of Symmetric Block Copolymers on Chemically Nanopatterned Surfaces. Macromolecules, 2012, 45, 3986-3992.	2.2	40
13	Self-propulsion of symmetric chemically active particles: Point-source model and experiments on camphor disks. Physical Review E, 2019, 99, 062605.	0.8	40
14	Anomalous<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î¶</mml:mi></mml:math>Potential in Foam Films. Physical Review Letters, 2014, 113, 088301.	2.9	35
15	Contact enhancement of locomotion in spreading cell colonies. Nature Physics, 2017, 13, 999-1005.	6.5	32
16	Generalized run-and-turn motions: From bacteria to LÃ©vy walks. Physical Review E, 2017, 96, 012415.	0.8	30
17	Thermal fluctuations of hydrodynamic flows in nanochannels. Physical Review E, 2013, 88, 012106.	0.8	26
18	Thermally activated creep and fluidization in flowing disordered materials. Europhysics Letters, 2016, 116, 46003.	0.7	20

#	Article	IF	Citations
19	Enhanced Heat Transfer with Metal-Dielectric Core-Shell Nanoparticles. Physical Review Applied, 2020, 13, .	1.5	19
20	Cross-sectional Imaging of Block Copolymer Thin Films on Chemically Patterned Surfaces. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2010, 23, 149-154.	0.1	14
21	Graphoepitaxial assembly of asymmetric ternary blends of block copolymers and homopolymers. Nanotechnology, 2010, 21, 495301.	1.3	14
22	The Physics of Capillary Condensation in Disordered Mesoporous Materials: A Unifying Theoretical Description. Adsorption, 2005, 11, 115-119.	1.4	13
23	Strong and fast rising pressure waves emitted by plasmonic vapor nanobubbles. Physical Review Research, 2021, 3, .	1.3	11
24	Optimal shape of entrances for a frictionless nanochannel. Physical Review Fluids, 2016, 1, .	1.0	10
25	Shape control and density multiplication of cylinder-forming ternary block copolymer-homopolymer blend thin films on chemical patterns. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, C6B24-C6B29.	0.6	7
26	Implicit Medium Model for Fractal Aggregate Polymer Nanocomposites: Linear Viscoelastic Properties. Macromolecules, 2019, 52, 2021-2032.	2.2	7
27	Role of Marangoni forces in the velocity of symmetric interfacial swimmers. Physical Review Fluids, 2021, 6, .	1.0	7