

Nabil Laachi

List of Publications by Year in descending order

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32
papers

451
citations

933447

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713466

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32
times ranked

394
citing authors

#	ARTICLE	IF	CITATIONS
1	Defectivity in Laterally Confined Lamella-Forming Diblock Copolymers: Thermodynamic and Kinetic Aspects. <i>Macromolecules</i> , 2012, 45, 6253-6265.	4.8	129
2	A candidate to replace PID control: SISO-constrained LQ control. <i>AIChE Journal</i> , 2005, 51, 1178-1189.	3.6	46
3	Nonequilibrium Transport of Rigid Macromolecules in Periodically Constricted Geometries. <i>Physical Review Letters</i> , 2007, 98, 098106.	7.8	36
4	Thermodynamic and kinetic aspects of defectivity in directed self-assembly of cylinder-forming diblock copolymers in laterally confining thin channels. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	32
5	Self-consistent field theory investigation of directed self-assembly in cylindrical confinement. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 142-153.	2.1	29
6	The Hole Shrink Problem: Directed Self-Assembly Using Self-Consistent Field Theory. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2013, 26, 15-20.	0.3	20
7	Self-consistent field theory simulations of polymers on arbitrary domains. <i>Journal of Computational Physics</i> , 2016, 327, 168-185.	3.8	14
8	The hole shrink problem: Theoretical studies of directed self-assembly in cylindrical confinement. <i>Proceedings of SPIE</i> , 2013, , .	0.8	13
9	Continuous-time random walk models of DNA electrophoresis in a post array: Part II. Mobility and sources of band broadening. <i>Electrophoresis</i> , 2011, 32, 581-587.	2.4	11
10	Self-consistent field theory of directed self-assembly in laterally confined lamellae-forming diblock copolymers. , 2012, , .		10
11	Directed self-assembly of laterally confined lamellae-forming diblock copolymers: polydispersity and substrate interaction effects. <i>Proceedings of SPIE</i> , 2012, , .	0.8	10
12	Directed self-assembly of linear arrays of block copolymer cylinders. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 317-326.	2.1	10
13	Computational Study of Directed Self-Assembly in Neutral Prepatterns for a Graphoepitaxial Pitch-Multiplication Application. <i>Macromolecules</i> , 2015, 48, 1256-1261.	4.8	10
14	Functional level-set derivative for a polymer self consistent field theory Hamiltonian. <i>Journal of Computational Physics</i> , 2017, 345, 207-223.	3.8	9
15	DNA unhooking from a single post as a deterministic process: Insights from translocation modeling. <i>Physical Review E</i> , 2009, 79, 031928.	2.1	8
16	Field-theoretic simulations of directed self-assembly in cylindrical confinement: placement and rectification aspects. <i>Proceedings of SPIE</i> , 2014, , .	0.8	7
17	Field-Theoretic Simulations of Multi-Cylinder Configurations in VIA Lithography. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2014, 27, 21-24.	0.3	7
18	The Hole Shrink Problem: Self-Consistent Field Theory for Directed Self-Assembly of Mikroarm Copolymers. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2014, 27, 37-39.	0.3	7

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19	Theory of band broadening during cycling temperature capillary electrophoresis. <i>Electrophoresis</i> , 2007, 28, 665-673.	2.4	6
20	DNA electrophoresis in confined, periodic geometries: A new lakes-straits model. <i>Journal of Chemical Physics</i> , 2010, 133, 234104.	3.0	6
21	Field-theoretic Simulations of Directed Self-assembly for Contact Multiplication. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2015, 28, 689-693.	0.3	5
22	Level-set strategy for inverse DSA-lithography. <i>Journal of Computational Physics</i> , 2018, 375, 1159-1178.	3.8	5
23	Statistics of tethered self-avoiding chains under spherical confinement and an external force. <i>Journal of Chemical Physics</i> , 2010, 132, 084108.	3.0	4
24	Self-consistent field theory of directed self-assembly on chemically prepatterned surfaces. <i>Proceedings of SPIE</i> , 2014, , .	0.8	4
25	Directed self-assembly of diblock copolymers in laterally confining channels: line-edge-roughness and defectivity. , 2014, , .		3
26	Effects of thermal fluctuations on directed self-assembly in cylindrical confinement. <i>Journal of Micro/ Nanolithography, MEMS, and MOEMS</i> , 2015, 14, 013505.	0.9	3
27	Computational study of directed self-assembly for contact-hole shrink and multiplication. <i>Journal of Micro/ Nanolithography, MEMS, and MOEMS</i> , 2015, 14, 013501.	0.9	3
28	Shape optimization for DSA. , 2016, , .		2
29	Computational studies of shape rectification in directed self-assembly. <i>Proceedings of SPIE</i> , 2014, , .	0.8	1
30	Advantages and limitations of density functional theory in block copolymer directed self-assembly. , 2015, , .		1
31	A Landauâ€“Peierls Analysis of Contact Hole Placement in Directed Self-Assembly of Linear Arrays of Block Copolymer Cylinders. <i>Macromolecules</i> , 2014, 47, 8819-8823.	4.8	0
32	Barriers to defect melting in chemo-epitaxial directed self-assembly of lamellar-forming diblock copolymer/homopolymer blends. , 2015, , .		0