

Nabil Laachi

List of Publications by Year in descending order

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papers

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citations

933447

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32
all docs

32
docs citations

32
times ranked

394
citing authors

#	ARTICLE	IF	CITATIONS
1	Level-set strategy for inverse DSA-lithography. Journal of Computational Physics, 2018, 375, 1159-1178.	3.8	5
2	Functional level-set derivative for a polymer self consistent field theory Hamiltonian. Journal of Computational Physics, 2017, 345, 207-223.	3.8	9
3	Shape optimization for DSA. , 2016, , .		2
4	Self-consistent field theory simulations of polymers on arbitrary domains. Journal of Computational Physics, 2016, 327, 168-185.	3.8	14
5	Field-theoretic Simulations of Directed Self-assembly for Contact Multiplication. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2015, 28, 689-693.	0.3	5
6	Barriers to defect melting in chemo-epitaxial directed self-assembly of lamellar-forming diblock copolymer/homopolymer blends. , 2015, , .		0
7	Advantages and limitations of density functional theory in block copolymer directed self-assembly. , 2015, , .		1
8	Directed self-assembly of linear arrays of block copolymer cylinders. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 317-326.	2.1	10
9	Self-consistent field theory investigation of directed self-assembly in cylindrical confinement. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 142-153.	2.1	29
10	Computational Study of Directed Self-Assembly in Neutral Prepatterns for a Graphoepitaxial Pitch-Multiplication Application. Macromolecules, 2015, 48, 1256-1261.	4.8	10
11	Effects of thermal fluctuations on directed self-assembly in cylindrical confinement. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2015, 14, 013505.	0.9	3
12	Computational study of directed self-assembly for contact-hole shrink and multiplication. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2015, 14, 013501.	0.9	3
13	A Landau-Peierls Analysis of Contact Hole Placement in Directed Self-Assembly of Linear Arrays of Block Copolymer Cylinders. Macromolecules, 2014, 47, 8819-8823.	4.8	0
14	Field-theoretic simulations of directed self-assembly in cylindrical confinement: placement and rectification aspects. Proceedings of SPIE, 2014, , .	0.8	7
15	Directed self-assembly of diblock copolymers in laterally confining channels: line-edge-roughness and defectivity. , 2014, , .		3
16	Computational studies of shape rectification in directed self-assembly. Proceedings of SPIE, 2014, , .	0.8	1
17	Self-consistent field theory of directed self-assembly on chemically prepatterned surfaces. Proceedings of SPIE, 2014, , .	0.8	4
18	Thermodynamic and kinetic aspects of defectivity in directed self-assembly of cylinder-forming diblock copolymers in laterally confining thin channels. Journal of Applied Polymer Science, 2014, 131, .	2.6	32

#	ARTICLE	IF	CITATIONS
19	Field-Theoretic Simulations of Multi-Cylinder Configurations in VIA Lithography. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2014, 27, 21-24.	0.3	7
20	The Hole Shrink Problem: Self-Consistent Field Theory for Directed Self-Assembly of Mikroarm Copolymers. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2014, 27, 37-39.	0.3	7
21	The hole shrink problem: Theoretical studies of directed self-assembly in cylindrical confinement. Proceedings of SPIE, 2013, , .	0.8	13
22	The Hole Shrink Problem: Directed Self-Assembly Using Self-Consistent Field Theory. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2013, 26, 15-20.	0.3	20
23	Self-consistent field theory of directed self-assembly in laterally confined lamellae-forming diblock copolymers. , 2012, , .		10
24	Defectivity in Laterally Confined Lamella-Forming Diblock Copolymers: Thermodynamic and Kinetic Aspects. Macromolecules, 2012, 45, 6253-6265.	4.8	129
25	Directed self-assembly of laterally confined lamellae-forming diblock copolymers: polydispersity and substrate interaction effects. Proceedings of SPIE, 2012, , .	0.8	10
26	Continuous-time random walk models of DNA electrophoresis in a post array: Part II. Mobility and sources of band broadening. Electrophoresis, 2011, 32, 581-587.	2.4	11
27	DNA electrophoresis in confined, periodic geometries: A new lakes-straits model. Journal of Chemical Physics, 2010, 133, 234104.	3.0	6
28	Statistics of tethered self-avoiding chains under spherical confinement and an external force. Journal of Chemical Physics, 2010, 132, 084108.	3.0	4
29	DNA unhooking from a single post as a deterministic process: Insights from translocation modeling. Physical Review E, 2009, 79, 031928.	2.1	8
30	Nonequilibrium Transport of Rigid Macromolecules in Periodically Constricted Geometries. Physical Review Letters, 2007, 98, 098106.	7.8	36
31	Theory of band broadening during cycling temperature capillary electrophoresis. Electrophoresis, 2007, 28, 665-673.	2.4	6
32	A candidate to replace PID control: SISO-constrained LQ control. AIChE Journal, 2005, 51, 1178-1189.	3.6	46