

Michele Vacatello

List of Publications by Year in descending order

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37
papers

2,451
citations

279798

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1257
citing authors

#	ARTICLE	IF	CITATIONS
1	Theories and simulations of polymer-based nanocomposites: From chain statistics to reinforcement. <i>Progress in Polymer Science</i> , 2008, 33, 683-731.	24.7	256
2	Off-lattice Monte Carlo simulations of polymer melts confined between two plates. <i>Journal of Chemical Physics</i> , 1988, 89, 5206-5215.	3.0	238
3	High-Resolution ¹³ C NMR Configurational Analysis of Polypropylene Made with MgCl ₂ -Supported Ziegler-Natta Catalysts. 1. The Model System MgCl ₂ /TiCl ₄ -2,6-Dimethylpyridine/Al(C ₂ H ₅) ₃ . <i>Macromolecules</i> , 1999, 32, 4173-4182.	4.8	195
4	Monte Carlo Simulations of Polymer Melts Filled with Solid Nanoparticles. <i>Macromolecules</i> , 2001, 34, 1946-1952.	4.8	159
5	Off-lattice Monte Carlo simulations of polymer melts confined between two plates. 2. Effects of chain length and plate separation. <i>Macromolecules</i> , 1990, 23, 2189-2197.	4.8	154
6	A possible model for the stereospecificity in the syndiospecific polymerization of propene with group 4a metallocenes. <i>Macromolecules</i> , 1991, 24, 1784-1790.	4.8	154
7	Full Assignment of the ¹³ C NMR Spectra of Regioregular Polypropylenes: Methyl and Methylene Region. <i>Macromolecules</i> , 1997, 30, 6251-6263.	4.8	127
8	Enantioselectivity in the Regioirregular Placements and Regiospecificity in the Isospecific Polymerization of Propene with Homogeneous Ziegler-Natta Catalysts. <i>Journal of the American Chemical Society</i> , 1994, 116, 2988-2995.	13.7	103
9	Chain Dimensions in Filled Polymers: An Intriguing Problem. <i>Macromolecules</i> , 2002, 35, 8191-8193.	4.8	101
10	A computer model of molecular arrangement in a n- <i>paraffinic</i> liquid. <i>Journal of Chemical Physics</i> , 1980, 73, 548-552.	3.0	96
11	Back-Skip of the Growing Chain at Model Complexes for the Metallocene Polymerization Catalysis. <i>Macromolecules</i> , 1996, 29, 4834-4845.	4.8	91
12	Oscillating Metallocene Catalysts: What Stops the Oscillation?. <i>Journal of the American Chemical Society</i> , 2003, 125, 5451-5460.	13.7	78
13	Oscillating Metallocene Catalysts: How Do They Oscillate?. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 505-508.	13.8	67
14	Molecular arrangements and conformations of liquid n- <i>tridecane</i> chains confined between two hard walls. <i>Journal of Chemical Physics</i> , 1990, 93, 779-786.	3.0	64
15	Interfering Effects of Growing Chain Epimerization on Metallocene-Catalyzed Isotactic Propene Polymerization. <i>Macromolecules</i> , 1997, 30, 3971-3977.	4.8	56
16	Predicting the Molecular Arrangements in Polymer-Based Nanocomposites. <i>Macromolecular Theory and Simulations</i> , 2003, 12, 86-91.	1.4	54
17	On the effects of methyl substituents on chelating ligands in models for homogeneous isospecific Ziegler-Natta catalysis. <i>Polymer</i> , 1991, 32, 1329-1335.	3.8	53
18	Molecular Arrangements in Polymer-Based Nanocomposites. <i>Macromolecular Theory and Simulations</i> , 2002, 11, 757-765.	1.4	50

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19	Thermotropic Smectic Liquid Crystals of Ionic Amphiphilic Compounds: A General Discussion. <i>Molecular Crystals and Liquid Crystals</i> , 1985, 128, 243-261.	0.8	49
20	Structural analogies between homogeneous and heterogeneous catalysts for the stereospecific polymerization of 1-alkenes. <i>Journal of Molecular Catalysis</i> , 1992, 74, 433-442.	1.2	40
21	Seeing the Stereoblock Junctions in Polypropylene Made with Oscillating Metallocene Catalysts. <i>Macromolecules</i> , 2001, 34, 8412-8415.	4.8	34
22	Phantom Chain Simulations of Polymer-Nanofiller Systems. <i>Macromolecules</i> , 2003, 36, 3411-3416.	4.8	33
23	Full Assignment of the ¹³ C NMR Spectra of Regioregular Polypropylenes: A Methine Region. <i>Macromolecules</i> , 1998, 31, 8713-8719.	4.8	27
24	Ordered Arrangements of Semiflexible Polymers at the Interface with Solids. <i>Macromolecular Theory and Simulations</i> , 2002, 11, 53-57.	1.4	23
25	Monte Carlo Simulations of the Interface between Polymer Melts and Solids. Effects of Chain Stiffness. <i>Macromolecular Theory and Simulations</i> , 2001, 10, 187-195.	1.4	22
26	A model for the homogeneous isospecific Ziegler-Natta polymerization of olefins: Enantioselectivity in the deuteration and deuterioligomerization of 1-alkenes. <i>Chirality</i> , 1991, 3, 299-306.	2.6	20
27	Monte Carlo Simulations of Polymers in Nanoslits. <i>Macromolecular Theory and Simulations</i> , 2004, 13, 30-35.	1.4	18
28	Models for the Explanation of the Stereospecific Behaviour of Ziegler-Natta Catalysts. , 1995, , 237-249.		15
29	Molecular mechanics and the polymerization mechanism of homogeneous and heterogeneous Ziegler-Natta catalysts. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1993, 69, 237-246.	0.6	10
30	Molecular mechanics and mechanisms of regulation of the stereospecificity in Ziegler-Natta catalysis. <i>Macromolecular Symposia</i> , 1995, 89, 307-319.	0.7	10
31	Phantom Chain Simulations of Realistically Sized Polymer-Based Nanocomposites. <i>Macromolecular Theory and Simulations</i> , 2006, 15, 303-310.	1.4	10
32	Molecular arrangements of liquids of chain molecules near solid surfaces in the presence of a diluent. <i>Macromolecular Theory and Simulations</i> , 1994, 3, 325-331.	1.4	8
33	Molecular arrangements and conformations of the alkyl chains in spherical micelles and droplets. <i>Journal of Chemical Physics</i> , 1990, 92, 757-767.	3.0	7
34	Molecular arrangements and conformations of chain molecules near impenetrable surfaces. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1991, 48-49, 349-361.	0.6	7
35	Monte Carlo studies of the conformational statistics of polymers. Polyethylene. <i>Die Makromolekulare Chemie Theory and Simulations</i> , 1993, 2, 875-888.	1.0	7
36	The Structure and Conformation of <i>n</i> -Hydrocarbon Chains in Bilayer Systems in the Fluid Phase. <i>Molecular Crystals and Liquid Crystals</i> , 1984, 107, 341-357.	0.8	5

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37	New insight into propene polymerization promoted by heterogeneous Ziegler-Natta catalysts. , 1999, , 76-88.		3