John Dorgan

List of Publications by Year
in descending order

62 papers	3,594 citations	126858 33 h-index	133188 59 g-index
62 all docs	62 docs citations	62 times ranked	4428 citing authors

#	Article	IF	Citations
1	Infusible acrylic thermoplastic resins: Tailoring of chemorheological properties. Journal of Applied Polymer Science, 2019, 136, 48006.	1.3	4
2	Dual-energy X-ray computed tomography for void detection in fiber-reinforced composites. Journal of Composite Materials, 2019, 53, 2349-2359.	1.2	10
3	Styrene-Free, Partially Biobased Resin System for Thermoplastic Composites. I. Rheological Properties and Preliminary Panel Fabrication. ACS Sustainable Chemistry and Engineering, 2019, 7, 6512-6521.	3.2	3
4	Kinetics and temperature evolution during the bulk polymerization of methyl methacrylate for vacuum-assisted resin transfer molding. Composites Part A: Applied Science and Manufacturing, 2018, 104, 60-67.	3.8	30
5	Biomass-derived monomers for performance-differentiated fiber reinforced polymer composites. Green Chemistry, 2017, 19, 2812-2825.	4.6	50
6	Integrated Biorefining: Coproduction of Renewable Resol Biopolymer for Aqueous Stream Valorization. ACS Sustainable Chemistry and Engineering, 2017, 5, 6615-6625.	3.2	19
7	Renewable Unsaturated Polyesters from Muconic Acid. ACS Sustainable Chemistry and Engineering, 2016, 4, 6867-6876.	3.2	90
8	cis,cis-Muconic acid: separation and catalysis to bio-adipic acid for nylon-6,6 polymerization. Green Chemistry, 2016, 18, 3397-3413.	4.6	147
9	Modification of cellulose nanocrystals with lactic acid for direct melt blending with PLA. AIP Conference Proceedings, 2015, , .	0.3	6
10	Elastic Behavior and Platelet Retraction in Low- and High-Density FibrinÂGels. Biophysical Journal, 2015, 108, 173-183.	0.2	61
11	Polylactide/cellulose nanocrystal nanocomposites: Efficient routes for nanofiber modification and effects of nanofiber chemistry on PLA reinforcement. Polymer, 2015, 65, 9-17.	1.8	163
12	Effects of polydispersity on confined homopolymer melts: A Monte Carlo study. Journal of Chemical Physics, 2014, 141, 214905.	1.2	8
13	Finding the Missing Physics: Mapping Polydispersity into Lattice-Based Simulations. Macromolecules, 2014, 47, 3185-3191.	2.2	15
14	Biorenewable blends of polyamideâ€•11 and polylactide. Polymer Engineering and Science, 2014, 54, 1523-1532.	1.5	57
15	Blends of biorenewable polyamide-11 and polyamide-6,10. Polymer, 2013, 54, 6961-6970.	1.8	40
16	Correlation of chemical and physical properties of an Alaska heavy oil from the Ugnu formation. Fuel, 2013, 103, 843-849.	3.4	20
17	Molecular Scale Simulation of Homopolymer Wall Slip. Physical Review Letters, 2013, 110, 176001.	2.9	12
18	Parameter Free Prediction of Rheological Properties of Homopolymer Melts by Dynamic Monte Carlo Simulation. Macromolecules, 2012, 45, 8833-8840.	2.2	9

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19	Supra-Molecular EcoBioNanocomposites Based on Polylactide and Cellulosic Nanowhiskers: Synthesis and Properties. Biomacromolecules, 2012, 13, 2013-2019.	2.6	108
20	Next-generation biopolymers: Advanced functionality and improved sustainability. MRS Bulletin, 2011, 36, 687-691.	1.7	42
21	Supramolecular bionanocomposites, part 2: Effects of carbon nanoparticle surface functionality on polylactide crystallization. Journal of Applied Polymer Science, 2011, 121, 2029-2038.	1.3	16
22	Supramolecular bionanocomposites 3: Effects of surface functionality on electrical and mechanical percolation. Journal of Applied Polymer Science, 2011, 122, 2563-2572.	1.3	12
23	The shear properties of oil shales. The Leading Edge, 2009, 28, 850-855.	0.4	10
24	Bio-composites of kenaf fibers in polylactide: Role of improved interfacial adhesion in the carding process. Composites Science and Technology, 2009, 69, 2573-2579.	3.8	200
25	Controlled dispersion of carbon nanospheres through surface functionalization. Carbon, 2009, 47, 622-628.	5.4	28
26	Single-Step Method for the Isolation and Surface Functionalization of Cellulosic Nanowhiskers. Biomacromolecules, 2009, 10, 334-341.	2.6	283
27	Supramolecular BioNanocomposites: Grafting of Biobased Polylactide to Carbon Nanoparticle Surfaces. Australian Journal of Chemistry, 2009, 62, 865.	0.5	13
28	Decorating in green: surface esterification of carbon and cellulosic nanoparticles. Green Chemistry, 2009, 11, 680.	4.6	56
29	Nonequilibrium nanoblend membranes for the pervaporation of benzene/cyclohexane mixtures. Journal of Applied Polymer Science, 2008, 108, 2917-2922.	1.3	8
30	The bulk modulus and Poisson's ratio of â€œincompressibleâ€•materials. Journal of Sound and Vibration, 2008, 312, 572-575.	2.1	215
31	Cellulosic Nanowhiskers. Theory and Application of Light Scattering from Polydisperse Spheroids in the Rayleighâˆ'Gansâˆ'Debye Regime. Biomacromolecules, 2008, 9, 1255-1263.	2.6	73
32	Heavy oils: Their shear story. Geophysics, 2007, 72, E175-E183.	1.4	81
33	Non-equilibrium nanoblends via forced assembly for pervaporation separation of benzene from cyclohexane: UNIFAQ-FV group contribution calculations. Journal of Membrane Science, 2007, 306, 186-195.	4.1	8
34	Gas solubility of carbon dioxide in poly(lactic acid) at high pressures: Thermal treatment effect. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 616-625.	2.4	42
35	Novel Processing to Produce Polymer/Ceramic Nanocomposites by Atomic Layer Deposition. Journal of the American Ceramic Society, 2007, 90, 57-63.	1.9	99
36	Infrared Spectroscopic Determination of Lactide Concentration in Polylactide:â€‰ An Improved Methodology. Macromolecules, 2006, 39, 9302-9310.	2.2	64

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37	Multicomponent Swelling of Polymer Networks. Macromolecules, 2006, 39, 8193-8202.	2.2	21
38	Gas solubility of carbon dioxide in poly(lactic acid) at high pressures. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 1010-1019.	2.4	55
39	Carbon dioxide, ethylene and water vapor sorption in poly(lactic acid). Fluid Phase Equilibria, 2006, 250, 116-124.	1.4	38
40	Gas permeation properties of poly(lactic acid) revisited. Journal of Membrane Science, 2006, 285, 166-172.	4.1	116
41	Fundamental solution and single-chain properties of polylactides. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 3100-3111.	2.4	130
42	Molecular Control of the Viscosity of Model Dendritically Branched Polystyrene Solutions:Â From Polymeric to Colloidal Behavior. Macromolecules, 2004, 37, 1016-1022.	2.2	16
43	Melt Rheology of Dendritically Branched Polystyrenes. Macromolecules, 2003, 36, 380-388.	2.2	54
44	Supramolecular morphology of two-step, melt-spun poly(lactic acid) fibers. Journal of Applied Polymer Science, 2002, 86, 2828-2838.	1.3	80
45	Effects of molecular architecture on two-step, melt-spun poly(lactic acid) fibers. Journal of Applied Polymer Science, 2002, 86, 2839-2846.	1.3	83
46	Surface Morphology of Poly(caprolactone)-b-poly(dimethylsiloxane)-b-poly(caprolactone) Copolymers: Effects on Protein Adsorption. Biomacromolecules, 2001, 2, 526-537.	2.6	35
47	Polylactides: properties and prospects of an environmentally benign plastic from renewable resources. Macromolecular Symposia, 2001, 175, 55-66.	0.4	174
48	Gas permeation properties of poly(lactic acid). Journal of Membrane Science, 2001, 190, 243-251.	4.1	145
49	Melt rheology of poly(lactic acid): Consequences of blending chain architectures. Polymer Engineering and Science, 2001, 41, 2172-2184.	1.5	122
50	Melt Rheology of Highl-Content Poly(lactic acid). Macromolecules, 2001, 34, 1384-1390.	2.2	178
51	Monte Carlo simulation of homopolymer melts in plane Poiseuille flow. Journal of Chemical Physics, 2000, 112, 6073-6083.	1.2	12
52	Kinetics of Spinodal Decomposition in Liquid Crystalline Polymers:Â Processing Effects on the Phase Separation Morphology. Macromolecules, 1998, 31, 193-200.	2.2	18
53	Static Properties of Homopolymer Melts in Confined Geometries Determined by Monte Carlo Simulation. Macromolecules, 1997, 30, 6348-6352.	2.2	36
54	Reactive polymer membranes for ethylene/ethane separation. Journal of Membrane Science, 1997, 136, 111-120.	4.1	38

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55	On the meaning of the spinodal in liquid crystalline solutions. Fluid Phase Equilibria, 1995, 109, 157-169.	1.4	5
56	Design of a monochromatic ellipsometer for studies at the solidâ€"liquid interface. Review of Scientific Instruments, 1995, 66, 1121-1127.	0.6	1
57	Brush Formation in Middle-Adsorbing Triblock Copolymers. Macromolecules, 1995, 28, 3471-3473.	2.2	8
58	Adsorption and thin film formation of diblock and triblock copolymers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1994, 86, 143-153.	2.3	7
59	Adsorption kinetics of end-attaching triblock copolymers. Polymer, 1993, 34, 1554-1557.	1.8	17
60	End-attaching copolymer adsorption: kinetics and effects of chain architecture. Macromolecules, 1993, 26, 5321-5330.	2.2	61
61	Spinodal decomposition in mixtures containing nematogens. II. Kinetics of spinodal decomposition. Journal of Chemical Physics, 1993, 98, 9094-9106.	1.2	32
62	Spinodal decomposition in mixtures containing nematogens. Liquid Crystals, 1991, 10, 347-355.	0.9	10