

# John Dorgan

## List of Publications by Year in descending order

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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	Single-Step Method for the Isolation and Surface Functionalization of Cellulosic Nanowhiskers. <i>Biomacromolecules</i> , 2009, 10, 334-341.	2.6	283
2	The bulk modulus and Poisson's ratio of "incompressible" materials. <i>Journal of Sound and Vibration</i> , 2008, 312, 572-575.	2.1	215
3	Bio-composites of kenaf fibers in polylactide: Role of improved interfacial adhesion in the carding process. <i>Composites Science and Technology</i> , 2009, 69, 2573-2579.	3.8	200
4	Melt Rheology of High-Content Poly(lactic acid). <i>Macromolecules</i> , 2001, 34, 1384-1390.	2.2	178
5	Polylactides: properties and prospects of an environmentally benign plastic from renewable resources. <i>Macromolecular Symposia</i> , 2001, 175, 55-66.	0.4	174
6	Polylactide/cellulose nanocrystal nanocomposites: Efficient routes for nanofiber modification and effects of nanofiber chemistry on PLA reinforcement. <i>Polymer</i> , 2015, 65, 9-17.	1.8	163
7	cis,cis-Muconic acid: separation and catalysis to bio-adipic acid for nylon-6,6 polymerization. <i>Green Chemistry</i> , 2016, 18, 3397-3413.	4.6	147
8	Gas permeation properties of poly(lactic acid). <i>Journal of Membrane Science</i> , 2001, 190, 243-251.	4.1	145
9	Fundamental solution and single-chain properties of polylactides. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 3100-3111.	2.4	130
10	Melt rheology of poly(lactic acid): Consequences of blending chain architectures. <i>Polymer Engineering and Science</i> , 2001, 41, 2172-2184.	1.5	122
11	Gas permeation properties of poly(lactic acid) revisited. <i>Journal of Membrane Science</i> , 2006, 285, 166-172.	4.1	116
12	Supra-Molecular EcoBioNanocomposites Based on Polylactide and Cellulosic Nanowhiskers: Synthesis and Properties. <i>Biomacromolecules</i> , 2012, 13, 2013-2019.	2.6	108
13	Novel Processing to Produce Polymer/Ceramic Nanocomposites by Atomic Layer Deposition. <i>Journal of the American Ceramic Society</i> , 2007, 90, 57-63.	1.9	99
14	Renewable Unsaturated Polyesters from Muconic Acid. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 6867-6876.	3.2	90
15	Effects of molecular architecture on two-step, melt-spun poly(lactic acid) fibers. <i>Journal of Applied Polymer Science</i> , 2002, 86, 2839-2846.	1.3	83
16	Heavy oils: Their shear story. <i>Geophysics</i> , 2007, 72, E175-E183.	1.4	81
17	Supramolecular morphology of two-step, melt-spun poly(lactic acid) fibers. <i>Journal of Applied Polymer Science</i> , 2002, 86, 2828-2838.	1.3	80
18	Cellulosic Nanowhiskers. Theory and Application of Light Scattering from Polydisperse Spheroids in the Rayleigh~"Gans"~Debye Regime. <i>Biomacromolecules</i> , 2008, 9, 1255-1263.	2.6	73

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19	Infrared Spectroscopic Determination of Lactide Concentration in Polylactide: An Improved Methodology. <i>Macromolecules</i> , 2006, 39, 9302-9310.	2.2	64
20	End-attaching copolymer adsorption: kinetics and effects of chain architecture. <i>Macromolecules</i> , 1993, 26, 5321-5330.	2.2	61
21	Elastic Behavior and Platelet Retraction in Low- and High-Density Fibrin Gels. <i>Biophysical Journal</i> , 2015, 108, 173-183.	0.2	61
22	Biorenewable blends of polyamide-11 and polylactide. <i>Polymer Engineering and Science</i> , 2014, 54, 1523-1532.	1.5	57
23	Decorating in green: surface esterification of carbon and cellulosic nanoparticles. <i>Green Chemistry</i> , 2009, 11, 680.	4.6	56
24	Gas solubility of carbon dioxide in poly(lactic acid) at high pressures. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 1010-1019.	2.4	55
25	Melt Rheology of Dendritically Branched Polystyrenes. <i>Macromolecules</i> , 2003, 36, 380-388.	2.2	54
26	Biomass-derived monomers for performance-differentiated fiber reinforced polymer composites. <i>Green Chemistry</i> , 2017, 19, 2812-2825.	4.6	50
27	Gas solubility of carbon dioxide in poly(lactic acid) at high pressures: Thermal treatment effect. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 616-625.	2.4	42
28	Next-generation biopolymers: Advanced functionality and improved sustainability. <i>MRS Bulletin</i> , 2011, 36, 687-691.	1.7	42
29	Blends of biorenewable polyamide-11 and polyamide-6,10. <i>Polymer</i> , 2013, 54, 6961-6970.	1.8	40
30	Reactive polymer membranes for ethylene/ethane separation. <i>Journal of Membrane Science</i> , 1997, 136, 111-120.	4.1	38
31	Carbon dioxide, ethylene and water vapor sorption in poly(lactic acid). <i>Fluid Phase Equilibria</i> , 2006, 250, 116-124.	1.4	38
32	Static Properties of Homopolymer Melts in Confined Geometries Determined by Monte Carlo Simulation. <i>Macromolecules</i> , 1997, 30, 6348-6352.	2.2	36
33	Surface Morphology of Poly(caprolactone)-b-poly(dimethylsiloxane)-b-poly(caprolactone) Copolymers: Effects on Protein Adsorption. <i>Biomacromolecules</i> , 2001, 2, 526-537.	2.6	35
34	Spinodal decomposition in mixtures containing nematogens. II. Kinetics of spinodal decomposition. <i>Journal of Chemical Physics</i> , 1993, 98, 9094-9106.	1.2	32
35	Kinetics and temperature evolution during the bulk polymerization of methyl methacrylate for vacuum-assisted resin transfer molding. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 104, 60-67.	3.8	30
36	Controlled dispersion of carbon nanospheres through surface functionalization. <i>Carbon</i> , 2009, 47, 622-628.	5.4	28

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37	Multicomponent Swelling of Polymer Networks. <i>Macromolecules</i> , 2006, 39, 8193-8202.	2.2	21
38	Correlation of chemical and physical properties of an Alaska heavy oil from the Ugnu formation. <i>Fuel</i> , 2013, 103, 843-849.	3.4	20
39	Integrated Biorefining: Coproduction of Renewable Resol Biopolymer for Aqueous Stream Valorization. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 6615-6625.	3.2	19
40	Kinetics of Spinodal Decomposition in Liquid Crystalline Polymers: Processing Effects on the Phase Separation Morphology. <i>Macromolecules</i> , 1998, 31, 193-200.	2.2	18
41	Adsorption kinetics of end-attaching triblock copolymers. <i>Polymer</i> , 1993, 34, 1554-1557.	1.8	17
42	Molecular Control of the Viscosity of Model Dendritically Branched Polystyrene Solutions: From Polymeric to Colloidal Behavior. <i>Macromolecules</i> , 2004, 37, 1016-1022.	2.2	16
43	Supramolecular bionanocomposites, part 2: Effects of carbon nanoparticle surface functionality on polylactide crystallization. <i>Journal of Applied Polymer Science</i> , 2011, 121, 2029-2038.	1.3	16
44	Finding the Missing Physics: Mapping Polydispersity into Lattice-Based Simulations. <i>Macromolecules</i> , 2014, 47, 3185-3191.	2.2	15
45	Supramolecular BioNanocomposites: Grafting of Biobased Polylactide to Carbon Nanoparticle Surfaces. <i>Australian Journal of Chemistry</i> , 2009, 62, 865.	0.5	13
46	Monte Carlo simulation of homopolymer melts in plane Poiseuille flow. <i>Journal of Chemical Physics</i> , 2000, 112, 6073-6083.	1.2	12
47	Supramolecular bionanocomposites 3: Effects of surface functionality on electrical and mechanical percolation. <i>Journal of Applied Polymer Science</i> , 2011, 122, 2563-2572.	1.3	12
48	Molecular Scale Simulation of Homopolymer Wall Slip. <i>Physical Review Letters</i> , 2013, 110, 176001.	2.9	12
49	Spinodal decomposition in mixtures containing nematogens. <i>Liquid Crystals</i> , 1991, 10, 347-355.	0.9	10
50	The shear properties of oil shales. <i>The Leading Edge</i> , 2009, 28, 850-855.	0.4	10
51	Dual-energy X-ray computed tomography for void detection in fiber-reinforced composites. <i>Journal of Composite Materials</i> , 2019, 53, 2349-2359.	1.2	10
52	Parameter Free Prediction of Rheological Properties of Homopolymer Melts by Dynamic Monte Carlo Simulation. <i>Macromolecules</i> , 2012, 45, 8833-8840.	2.2	9
53	Brush Formation in Middle-Adsorbing Triblock Copolymers. <i>Macromolecules</i> , 1995, 28, 3471-3473.	2.2	8
54	Non-equilibrium nanoblends via forced assembly for pervaporation separation of benzene from cyclohexane: UNIFAQ-FV group contribution calculations. <i>Journal of Membrane Science</i> , 2007, 306, 186-195.	4.1	8

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55	Nonequilibrium nanoblend membranes for the pervaporation of benzene/cyclohexane mixtures. Journal of Applied Polymer Science, 2008, 108, 2917-2922.	1.3	8
56	Effects of polydispersity on confined homopolymer melts: A Monte Carlo study. Journal of Chemical Physics, 2014, 141, 214905.	1.2	8
57	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
58	Modification of cellulose nanocrystals with lactic acid for direct melt blending with PLA. AIP Conference Proceedings, 2015, , .	0.3	6
59	On the meaning of the spinodal in liquid crystalline solutions. Fluid Phase Equilibria, 1995, 109, 157-169.	1.4	5
60	Infusible acrylic thermoplastic resins: Tailoring of chemorheological properties. Journal of Applied Polymer Science, 2019, 136, 48006.	1.3	4
61	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
62	Design of a monochromatic ellipsometer for studies at the solid-liquid interface. Review of Scientific Instruments, 1995, 66, 1121-1127.	0.6	1