Marc A DubÃ©

List of Publications by Year
in descending order

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124 papers	3,464 citations	136940 32 h-index	175241 52 g-index
130 all docs	130 docs citations	130 times ranked	2966 citing authors

#	Article	IF	Citations
1	Mathematical Modeling of Multicomponent Chain-Growth Polymerizations in Batch, Semibatch, and Continuous Reactors:Â A Review. Industrial & Engineering Chemistry Research, 1997, 36, 966-1015.	3.7	166
2	Glycerol removal from biodiesel using membrane separation technology. Fuel, 2010, 89, 2260-2266.	6.4	159
3	High-purity fatty acid methyl ester production from canola, soybean, palm, and yellow grease lipids by means of a membrane reactor. Biomass and Bioenergy, 2008, 32, 1028-1036.	5.7	133
4	Applying the Principles of Green Chemistry to Polymer Production Technology. Macromolecular Reaction Engineering, 2014, 8, 7-28.	1.5	132
5	Nanocellulose in Emulsions and Heterogeneous Waterâ€Based Polymer Systems: A Review. Advanced Materials, 2021, 33, e2002404.	21.0	119
6	Effect of Membrane Pore Size on the Performance of a Membrane Reactor for Biodiesel Production. Industrial & Engineering Chemistry Research, 2007, 46, 52-58.	3.7	113
7	A comparison of attenuated total reflectance-FTIR spectroscopy and GPC for monitoring biodiesel production. JAOCS, Journal of the American Oil Chemists' Society, 2004, 81, 599-603.	1.9	93
8	Acid-Catalyzed Transesterification of Canola Oil to Biodiesel under Single- and Two-Phase Reaction Conditions. Energy & Fuels, 2007, 21, 2450-2459.	5.1	91
9	Methanol recycling in the production of biodiesel in a membrane reactor. Fuel, 2008, 87, 825-833.	6.4	82
10	Pressure sensitive adhesive property modification using cellulose nanocrystals. International Journal of Adhesion and Adhesives, 2018, 81, 36-42.	2.9	82
11	Bioadhesives: A Review. Macromolecular Reaction Engineering, 2013, 7, 573-587.	1.5	74
12	A Critical Overview of Sensors for Monitoring Polymerizations. Macromolecular Reaction Engineering, 2009, 3, 327-373.	1.5	70
13	Kinetics of Canola Oil Transesterification in a Membrane Reactor. Industrial & Engineering Chemistry Research, 2009, 48, 2533-2541.	3.7	60
14	Reaction Monitoring of Glycerol Stepâ€Growth Polymerization Using ATRâ€FTIR Spectroscopy. Macromolecular Reaction Engineering, 2012, 6, 85-92.	1.5	60
15	The influence of butyl acrylate/methyl methacrylate/2-hydroxy ethyl methacrylate/acrylic acid latex properties on pressure sensitive adhesive performance. International Journal of Adhesion and Adhesives, 2010, 30, 654-664.	2.9	58
16	Formation and characterization of protein-based films from yellow pea (Pisum sativum) protein isolate and concentrate for edible applications. Current Research in Food Science, 2020, 2, 61-69.	5.8	58
17	Single-Phase and Two-Phase Base-Catalyzed Transesterification of Canola Oil to Fatty Acid Methyl Esters at Ambient Conditions. Industrial & Engineering Chemistry Research, 2006, 45, 5411-5417.	3.7	57
18	Cellulose Nanocrystals and Methyl Cellulose as Costabilizers for Nanocomposite Latexes with Double Morphology. ACS Sustainable Chemistry and Engineering, 2017, 5, 10509-10517.	6.7	57

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19	Separation of glycerol from FAME using ceramic membranes. Fuel Processing Technology, 2011, 92, 1305-1310.	7.2	54
20	Towards the Sustainable Production of Higherâ€Molecularâ€Weight Polyglycerol. Macromolecular Chemistry and Physics, 2011, 212, 1284-1293.	2.2	53
21	The effect of particle size and composition on the performance of styrene/butyl acrylate miniemulsion-based PSAs. Polymer, 2006, 47, 799-807.	3.8	46
22	Biodiesel: a green polymerization solvent. Green Chemistry, 2008, 10, 321.	9.0	45
23	Manipulation of chain transfer agent and cross-linker concentration to modify latex micro-structure for pressure-sensitive adhesives. European Polymer Journal, 2010, 46, 1225-1236.	5.4	40
24	Synthesis of Poly(nâ€butyl acrylate/methyl methacrylate)/CNC Latex Nanocomposites via In Situ Emulsion Polymerization. Macromolecular Reaction Engineering, 2017, 11, 1700013.	1.5	40
25	Terpolymerization monitoring with ATR-FTIR spectroscopy. Journal of Polymer Science Part A, 2001, 39, 1860-1876.	2.3	38
26	Modeling of the Copolymerization Kinetics of n-Butyl Acrylate and d-Limonene Using PREDICI Â®. Processes, 2016, 4, 1.	2.8	37
27	Miniemulsion vs. conventional emulsion polymerization for pressure-sensitive adhesives production. Chemical Engineering Science, 2010, 65, 2797-2810.	3.8	36
28	Screening Experiments for Butyl Acrylate/Vinyl Acetate Pressure-Sensitive Adhesives. Industrial & Engineering Chemistry Research, 2005, 44, 6668-6675.	3.7	35
29	Butyl acrylate/methyl methacrylate latexes: adhesive properties. Macromolecular Symposia, 2004, 206, 43-56.	0.7	34
30	Off-line monitoring of butyl acrylate and vinyl acetate homopolymerization and copolymerization in toluene. Journal of Applied Polymer Science, 2001, 82, 2958-2977.	2.6	33
31	A kinetic investigation of styrene/butyl acrylate copolymerization. Canadian Journal of Chemical Engineering, 1990, 68, 974-987.	1.7	32
32	Effect of pH on Poly(acrylic acid) Solution Polymerization. Journal of Macromolecular Science - Pure and Applied Chemistry, 2015, 52, 587-592.	2.2	32
33	Incorporating Cellulose Nanocrystals into the Core of Polymer Latex Particles via Polymer Grafting. ACS Macro Letters, 2018, 7, 990-996.	4.8	31
34	Graft modification of starch nanoparticles using nitroxide-mediated polymerization and the grafting from approach. Carbohydrate Polymers, 2020, 228, 115384.	10.2	31
35	In Situ Semibatch Emulsion Polymerization of 2â€Ethyl Hexyl Acrylate/nâ€Butyl Acrylate/Methyl Methacrylate/Cellulose Nanocrystal Nanocomposites for Adhesive Applications. Macromolecular Reaction Engineering, 2018, 12, 1700068.	1.5	30
36	Off-line monitoring of butyl acrylate, methyl methacrylate and vinyl acetate homo- and copolymerizations in toluene using ATR-FTIR spectroscopy. Polymer, 2001, 42, 6009-6018.	3.8	28

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37	Polymer Nanocomposites for Emulsionâ€Based Coatings and Adhesives. Macromolecular Reaction Engineering, 2019, 13, 1800050.	1.5	28
38	Synthesis of poly(isobutyl acrylate/nâ€butyl acrylate/methyl methacrylate)/CNC nanocomposites for adhesive applications via in situ semiâ€batch emulsion polymerization. Polymer Composites, 2019, 40, 1365-1377.	4.6	28
39	Mathematical modelling of styrene/butyl acrylate copolymerization. Chemical Engineering Science, 1990, 45, 2785-2792.	3.8	27
40	Mathematical Modeling of Emulsion Copolymerization of Acrylonitrile/Butadiene. Industrial & Engineering Chemistry Research, 1996, 35, 4434-4448.	3.7	27
41	Copolymerization of Limonene with nâ€Butyl Acrylate. Macromolecular Reaction Engineering, 2015, 9, 339-349.	1.5	27
42	A systematic approach to the study of multicomponent polymerization kinetics: the butyl acrylate/methyl methacrylate/vinyl acetate example, 2. Bulk (and solution) terpolymerization. Macromolecular Chemistry and Physics, 1995, 196, 1101-1112.	2.2	26
43	IN-LINE MONITORING OF EMULSION HOMO- AND COPOLYMERIZATIONS USING ATR-FTIR SPECTROMETRY. Polymer-Plastics Technology and Engineering, 2002, 10, 21-39.	0.7	26
44	Variables Affecting the Induction Period during Acid-Catalyzed Transesterification of Canola Oil to FAME. Energy & Fuels, 2008, 22, 679-685.	5.1	26
45	Transesterification of Canola Oil to Fatty Acid Methyl Ester (FAME) in a Continuous Flow Liquidâ^'Liquid Packed Bed Reactor. Energy & Fuels, 2008, 22, 3551-3556.	5.1	25
46	Manipulating Latex Polymer Microstructure Using Chain Transfer Agent and Crossâ€Linker to Modify PSA Performance and Viscoelasticity. Macromolecular Reaction Engineering, 2011, 5, 117-128.	1.5	25
47	On the Use of Starch in Emulsion Polymerizations. Processes, 2019, 7, 140.	2.8	25
48	Copolymerization of nâ€Butyl Methacrylate and <scp>D</scp>â€Limonene. Macromolecular Reaction Engineering, 2014, 8, 805-812.	1.5	24
49	Starch nanoparticle incorporation in latex-based adhesives. European Polymer Journal, 2018, 106, 128-138.	5.4	24
50	The use of biodiesel as a green polymerization solvent at elevated temperatures. Polymer International, 2008, 57, 854-862.	3.1	23
51	Solution polymerization of styrene using biodiesel as a solvent: Effect of biodiesel feedstock. Canadian Journal of Chemical Engineering, 2009, 87, 129-135.	1.7	23
52	A systematic approach to the study of multicomponent polymerization kinetics: butyl acrylate/methyl methacrylate/vinyl acetate. III. Emulsion homopolymerization and copolymerization in a pilot plant reactor. Polymer International, 1995, 37, 235-248.	3.1	22
53	Influence of polymer microstructure on the performance of postâ€treated latexâ€based pressure sensitive adhesives. Journal of Applied Polymer Science, 2012, 124, 349-364.	2.6	22
54	Cellulose Nanocrystal (CNC)â€“Latex Nanocomposites: Effect of CNC Hydrophilicity and Charge on Rheological, Mechanical, and Adhesive Properties. Macromolecular Rapid Communications, 2021, 42, e2000448.	3.9	22

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55	Grafting from Starch Nanoparticles with Synthetic Polymers via Nitroxideâ€Mediated Polymerization. Macromolecular Rapid Communications, 2019, 40, 1800834.	3.9	21
56	Synthesis of novel stimuliâ€responsive polyglycerolâ€based hydrogels. European Journal of Lipid Science and Technology, 2012, 114, 92-99.	1.5	19
57	Copolymerization of 2-Ethylhexyl Acrylate and D-Limonene. Polymer-Plastics Technology and Engineering, 2015, 54, 499-505.	1.9	19
58	A systematic approach to the study of multicomponent polymerization kinetics: The butyl acrylate/methyl methacrylate/vinyl acetate example. IV. Optimal Bayesian design of emulsion terpolymerization experiments in a pilot plant reactor. Journal of Polymer Science Part A, 1996, 34, 811-831.	2.3	17
59	Empirical Modeling of Butyl Acrylate/Vinyl Acetate/Acrylic Acid Emulsion-Based Pressure-Sensitive Adhesives. Macromolecular Materials and Engineering, 2004, 289, 467-474.	3.6	17
60	Inline monitoring of styrene/butyl acrylate miniemulsion polymerization with attenuated total reflectance/Fourier transform infrared spectroscopy. Journal of Applied Polymer Science, 2007, 103, 46-52.	2.6	17
61	In-Line Monitoring of SBR Emulsion Polymerization Using ATR-FTIR Spectroscopy. Polymer-Plastics Technology and Engineering, 2010, 49, 648-656.	1.9	17
62	Green Emulsion Polymerization Technology. Advances in Polymer Science, 2017, , 65-100.	0.8	17
63	Starch nanoparticles modified with styrene oxide and their use as Pickering stabilizers. Polymer Chemistry, 2020, 11, 2653-2665.	3.9	17
64	The use of lignin in emulsion-based pressure-sensitive adhesives. International Journal of Adhesion and Adhesives, 2020, 100, 102598.	2.9	16
65	Sustainable polymer reaction engineering: Are we there yet?. Canadian Journal of Chemical Engineering, 2021, 99, 31-60.	1.7	16
66	Infrared process monitoring of conjugated linoleic acid/styrene/butyl acrylate bulk and emulsion terpolymerization. Journal of Applied Polymer Science, 2016, 133, .	2.6	15
67	Emulsion-based pressure sensitive adhesives from conjugated linoleic acid/styrene/butyl acrylate terpolymers. International Journal of Adhesion and Adhesives, 2016, 70, 17-25.	2.9	15
68	Liquidâ^'Liquid Equilibria of the Methyl Oleateâ^'Glycerolâ^'Hexaneâ^'Methanol System. Industrial & Engineering Chemistry Research, 2008, 47, 443-450.	3.7	14
69	Optimal Separation of Glycerol and Methyl Oleate via Liquidâ^'Liquid Extraction. Journal of Chemical & Engineering Data, 2009, 54, 1541-1550.	1.9	14
70	Semi-Continuous Emulsion Copolymerization of Styrene-Butyl Acrylate with Methacrylic Acid: Screening Design of Experiments. Polymer-Plastics Technology and Engineering, 2011, 50, 349-361.	1.9	14
71	Increasing Starch Nanoparticle Content in Emulsion Polymer Latexes. Industrial & Engineering Chemistry Research, 2019, 58, 20987-20995.	3.7	14
72	A sequential design approach for in situ incorporation of cellulose nanocrystals in emulsion-based pressure sensitive adhesives. Cellulose, 2020, 27, 10837-10853.	4.9	14

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73	Using Lignin to Modify Starch-Based Adhesive Performance. ChemEngineering, 2020, 4, 3.	2.4	14
74	Monomer compartmentalisation in miniemulsion polymerisation studied by infrared spectroscopy. Comptes Rendus Chimie, 2003, 6, 1343-1349.	0.5	13
75	Off-line monitoring of styrene/butyl acrylate copolymerizations in toluene using ATR-FTIR spectroscopy. Polymer, 2004, 45, 345-354.	3.8	13
76	Graft Modification of Starch Nanoparticles Using Nitroxide-Mediated Polymerization and the â€œGrafting toâ€•Approach. Biomacromolecules, 2020, 21, 4492-4501.	5.4	13
77	Inâ€Line Monitoring of Butyl Acrylate/Vinyl Acetate Emulsion Copolymerizations Using ATRâ€“FTIR Spectroscopy. Polymer-Plastics Technology and Engineering, 2003, 11, 233-257.	0.7	12
78	Bulk Terpolymerization of Conjugated Linoleic Acid with Styrene and Butyl Acrylate. ACS Sustainable Chemistry and Engineering, 2016, 4, 264-272.	6.7	12
79	Modification of latex microstructure and adhesive performance using d-Limonene as a chain transfer agent. International Journal of Adhesion and Adhesives, 2017, 75, 132-138.	2.9	12
80	Incorporation of Modified Regenerated Starch Nanoparticles in Emulsion Polymer Latexes. Starch/Staerke, 2019, 71, 1800192.	2.1	12
81	Emulsion terpolymerization of butyl acrylate/methyl methacrylate/vinyl acetate: Experimental results. Journal of Polymer Science Part A, 1997, 35, 1659-1672.	2.3	11
82	Bulk Freeâ€Radical Coâ€•and Terpolymerization of nâ€Butyl Acrylate/2â€Ethylhexyl Acrylate/Methyl Methacrylate. Macromolecular Reaction Engineering, 2019, 13, 1800057.	1.5	11
83	Inâ€situ addition of carboxylated cellulose nanocrystals in seeded semiâ€batch emulsion polymerization. Canadian Journal of Chemical Engineering, 2022, 100, 767-779.	1.7	11
84	Influence of Particle Nucleation in Pressure Sensitive Adhesive Properties: MiniemulsionversusEmulsion Polymerization. Macromolecular Symposia, 2008, 271, 83-93.	0.7	10
85	Modeling of Network Formation in the Atom Transfer Radical Coâ€Polymerization (ATRP) of Vinyl/Divinyl Monomers Using a Multifunctional Polymer Molecule Approach. Macromolecular Theory and Simulations, 2014, 23, 429-441.	1.4	10
86	In situ poly(sodium acrylate)â€based nanocomposite formation by redoxâ€initiated solution polymerization. Polymer Engineering and Science, 2015, 55, 1230-1236.	3.1	10
87	Determination of reactivity ratios for the copolymerization of poly(acrylic acidâ€coâ€itaconic) Tj ETQq1 1 0.784314 rgBT /Ove	2.6	10
88	Bulk Freeâ€Radical Copolymerization of nâ€Butyl Acrylate and nâ€Butyl Methacrylate: Reactivity Ratio Estimation. Macromolecular Reaction Engineering, 2017, 11, 1600050.	1.5	10
89	Modeling of the Free Radical Copolymerization Kinetics of n-Butyl Acrylate, Methyl Methacrylate and 2-Ethylhexyl Acrylate Using PREDICIÂ®. Processes, 2019, 7, 395.	2.8	10
90	Modification of Adhesive and Latex Properties for Starch Nanoparticleâ€Based Pressure Sensitive Adhesives. Macromolecular Reaction Engineering, 2020, 14, 1900023.	1.5	10

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91	Pushing the Limits with Cellulose Nanocrystal Loadings in Latexâ€Based Pressureâ€Sensitive Adhesive Nanocomposites. Macromolecular Reaction Engineering, 2020, 14, 2000027.	1.5	10
92	Hierarchical data analysis of a replicate experiment in emulsion terpolymerization. AICHE Journal, 1996, 42, 1985-1994.	3.6	9
93	Bulk and Solution Copolymerization of Butyl Acrylate/Methyl Methacrylate at Elevated Temperatures. Macromolecular Chemistry and Physics, 2002, 203, 2446-2453.	2.2	9
94	Freeâ€radical terpolymerization of nâ€butyl acrylate/butyl methacrylate/<scp>d</scp>â€limonene. Journal of Applied Polymer Science, 2015, 132, .	2.6	9
95	How latex film formation and adhesion at the nanoscale correlate to performance of pressure sensitive adhesives with cellulose nanocrystals. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200330.	3.4	9
96	Reaction Monitoring of in Situ Formation of Poly(sodium acrylate)-Based Nanocomposites Using ATR-FTIR Spectroscopy. Industrial & Engineering Chemistry Research, 2015, 54, 5598-5603.	3.7	8
97	Graft modification of starch nanoparticles with pHâ€responsive polymers via nitroxideâ€mediated polymerization. Journal of Polymer Science, 2020, 58, 2211-2220.	3.8	8
98	Butyl Acrylate/Vinyl Acetate Emulsionâ€Based Pressureâ€Sensitive Adhesives: Empirical Modelling of Final Properties. Canadian Journal of Chemical Engineering, 2007, 85, 341-349.	1.7	7
99	Application Properties of Stimuli-Responsive Polyglycerol Hydrogels. Journal of Macromolecular Science - Pure and Applied Chemistry, 2012, 49, 103-110.	2.2	7
100	Acidâ€catalyzed esterification of naphthenic acids. Environmental Progress and Sustainable Energy, 2013, 32, 406-410.	2.3	7
101	â€œEngineeringâ€•Student Success: How Does it Happen and Who is Responsible?. Journal of Engineering Education, 1999, 88, 149-152.	3.0	6
102	Bulk Copolymerization of Conjugated Linoleic Acid With Styrene and Butyl Acrylate: Reactivity Ratio Estimation. Journal of Macromolecular Science - Pure and Applied Chemistry, 2015, 52, 961-970.	2.2	6
103	The use of amyloseâ€rich starch nanoparticles in emulsion polymerization. Journal of Applied Polymer Science, 2018, 135, 46485.	2.6	6
104	Incorporating Hydrophobic Cellulose Nanocrystals inside Latex Particles via Miniâ€Emulsion Polymerization. Macromolecular Reaction Engineering, 2021, 15, 2100023.	1.5	6
105	Improving Latexâ€Based Pressureâ€Sensitive Adhesive Properties Using Carboxylated Cellulose Nanocrystals. Macromolecular Reaction Engineering, 2022, 16, .	1.5	6
106	Incorporation of Polymer-Grafted Cellulose Nanocrystals into Latex-Based Pressure-Sensitive Adhesives. ACS Materials Au, 2022, 2, 176-189.	6.0	6
107	Butyl Acrylate/Vinyl Acetate Miniemulsion Polymerization: A Study on Compartmentalization. Macromolecular Chemistry and Physics, 2004, 205, 958-965.	2.2	5
108	Preparation of Stable Miniemulsions of Poly(2â€ethyl hexyl acrylateâ€coâ€vinyl acetate). Macromolecular Symposia, 2010, 289, 72-85.	0.7	5

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109	Distribution of soap in a membrane reactor in the production of fame from waste cooking oil. Canadian Journal of Chemical Engineering, 2013, 91, 459-465.	1.7	5
110	Making the Most of Parameter Estimation: Terpolymerization Troubleshooting Tips. Processes, 2019, 7, 444.	2.8	5
111	Nitroxideâ€Mediated Polymerization of nâ€Butyl Acrylate and Dâ€Limonene. Macromolecular Symposia, 2016, 360, 152-159.	0.7	4
112	Kinetic modeling of vinyl acetate telomerization catalyzed by metal transition complexes under thermal and microwave heating. Journal of Macromolecular Science - Pure and Applied Chemistry, 2018, 55, 231-242.	2.2	4
113	Graft modification of cold water-soluble starch via nitroxide-mediated polymerisation. Polymer Chemistry, 2020, 11, 4180-4191.	3.9	4
114	Compartmentalisation in miniemulsions: exploration of compartmentalisation and some interesting end-uses. Macromolecular Symposia, 2004, 206, 107-120.	0.7	3
115	Modelling Degradative Chain Transfer in dâ€Limonene/2â€Ethylhexyl Acrylate Freeâ€Radical Copolymerization. Macromolecular Symposia, 2016, 360, 185-191.	0.7	3
116	Special Issue â€œRenewable Polymers: Processing and Chemical Modificationsâ€. Processes, 2019, 7, 398.	2.8	3
117	Macromol. React. Eng. 7/2009. Macromolecular Reaction Engineering, 2009, 3, NA-NA.	1.5	2
118	Towards Sustainable Solution Polymerization: Biodiesel as a Polymerization Solvent. , 2011, , 143-161.		1
119	The Effect of Polymer Microstructure and Thermal Postâ€Treatment on Latexâ€Based Pressure Sensitive Adhesive Performance. Macromolecular Symposia, 2013, 324, 49-54.	0.7	1
120	Poly(Sodium Acrylate)â€Based Nanocomposite Bioadhesives for Sutureless Surgery. Macromolecular Symposia, 2016, 360, 199-206.	0.7	1
121	Conjugated Linoleic Acid/Styrene/Butyl Acrylate Bulk and Emulsion Polymerization for Adhesive Applications. Macromolecular Symposia, 2016, 370, 110-119.	0.7	1
122	Emulsion terpolymerization of butyl acrylate/methyl methacrylate/vinyl acetate: Experimental results. Journal of Polymer Science Part A, 1997, 35, 1659-1672.	2.3	1
123	Offâ€line monitoring of butyl acrylate and vinyl acetate homopolymerization and copolymerization in toluene. Journal of Applied Polymer Science, 2001, 82, 2958-2977.	2.6	1
124	Grafting pHâ€Responsive Copolymers to Cold Waterâ€Soluble Starch Using Nitroxideâ€Mediated Polymerization. Macromolecular Reaction Engineering, 2021, 15, 2100011.	1.5	0