Marc A Dub

List of Publications by Year in Descending Order

123 papers	2,726 citations	30 h-index	45 g-index
130 ext. papers	3,071 ext. citations	3.3 avg, IF	5.77 L-index

#	Paper	IF	Citations
123	Incorporation of Polymer-Grafted Cellulose Nanocrystals into Latex-Based Pressure-Sensitive Adhesives. *ACS Materials Au*, **2022**, 2, 176-189		0
122	Nanocellulose in Emulsions and Heterogeneous Water-Based Polymer Systems: A Review. *Advanced Materials*, **2021**, 33, e2002404	24	42
121	Grafting pH-Responsive Copolymers to Cold Water-Soluble Starch Using Nitroxide-Mediated Polymerization. *Macromolecular Reaction Engineering*, **2021**, 15, 2100011	1.5	
120	Cellulose Nanocrystal (CNC)-Latex Nanocomposites: Effect of CNC Hydrophilicity and Charge on Rheological, Mechanical, and Adhesive Properties. *Macromolecular Rapid Communications*, **2021**, 42, e2000448	4.8	11
119	Sustainable polymer reaction engineering: Are we there yet?. *Canadian Journal of Chemical Engineering*, **2021**, 99, 31-60	2.3	5
118	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	5
117	Incorporating Hydrophobic Cellulose Nanocrystals inside Latex Particles via Mini-Emulsion Polymerization. *Macromolecular Reaction Engineering*, **2021**, 15, 2100023	1.5	1
116	Graft Modification of Starch Nanoparticles Using Nitroxide-Mediated Polymerization and the "Grafting to" Approach. *Biomacromolecules*, **2020**, 21, 4492-4501	6.9	4
115	Graft modification of cold water-soluble starch via nitroxide-mediated polymerisation. *Polymer Chemistry*, **2020**, 11, 4180-4191	4.9	2
114	Starch nanoparticles modified with styrene oxide and their use as Pickering stabilizers. *Polymer Chemistry*, **2020**, 11, 2653-2665	4.9	13
113	A sequential design approach for in situ incorporation of cellulose nanocrystals in emulsion-based pressure sensitive adhesives. *Cellulose*, **2020**, 27, 10837-10853	5.5	9
112	Using Lignin to Modify Starch-Based Adhesive Performance. *ChemEngineering*, **2020**, 4, 3	2.6	7
111	Formation and characterization of protein-based films from yellow pea () protein isolate and concentrate for edible applications. *Current Research in Food Science*, **2020**, 2, 61-69	5.6	30
110	Graft modification of starch nanoparticles with pH-responsive polymers via nitroxide-mediated polymerization. *Journal of Polymer Science*, **2020**, 58, 2211-2220	2.4	3
109	Pushing the Limits with Cellulose Nanocrystal Loadings in Latex-Based Pressure-Sensitive Adhesive Nanocomposites. *Macromolecular Reaction Engineering*, **2020**, 14, 2000027	1.5	4
108	Graft modification of starch nanoparticles using nitroxide-mediated polymerization and the grafting from approach. *Carbohydrate Polymers*, **2020**, 228, 115384	10.3	25
107	Modification of Adhesive and Latex Properties for Starch Nanoparticle-Based Pressure Sensitive Adhesives. *Macromolecular Reaction Engineering*, **2020**, 14, 1900023	1.5	6

106	The use of lignin in emulsion-based pressure-sensitive adhesives. *International Journal of Adhesion and Adhesives*, **2020**, 100, 102598	3.4	11
105	Grafting from Starch Nanoparticles with Synthetic Polymers via Nitroxide-Mediated Polymerization. *Macromolecular Rapid Communications*, **2019**, 40, e1800834	4.8	16
104	On the Use of Starch in Emulsion Polymerizations. *Processes*, **2019**, 7, 140	2.9	16
103	Increasing Starch Nanoparticle Content in Emulsion Polymer Latexes. *Industrial & Engineering Chemistry Research*, **2019**, 58, 20987-20995	3.9	8
102	Modeling of the Free Radical Copolymerization Kinetics of n-Butyl Acrylate, Methyl Methacrylate and 2-Ethylhexyl Acrylate Using PREDICI . *Processes*, **2019**, 7, 395	2.9	6
101	Making the Most of Parameter Estimation: Terpolymerization Troubleshooting Tips. *Processes*, **2019**, 7, 444	2.9	3
100	Incorporation of Modified Regenerated Starch Nanoparticles in Emulsion Polymer Latexes. *Starch/Staerke*, **2019**, 71, 1800192	2.3	11
99	Bulk Free-Radical Co- and Terpolymerization of n-Butyl Acrylate/2-Ethylhexyl Acrylate/Methyl Methacrylate. *Macromolecular Reaction Engineering*, **2019**, 13, 1800057	1.5	6
98	Polymer Nanocomposites for Emulsion-Based Coatings and Adhesives. *Macromolecular Reaction Engineering*, **2019**, 13, 1800050	1.5	18
97	Synthesis of poly(isobutyl acrylate/n-butyl acrylate/methyl methacrylate)/CNC nanocomposites for adhesive applications via in situ semi-batch emulsion polymerization. *Polymer Composites*, **2019**, 40, 1365-1377	3	18
96	The use of amylose-rich starch nanoparticles in emulsion polymerization. *Journal of Applied Polymer Science*, **2018**, 135, 46485	2.9	5
95	In Situ Semibatch Emulsion Polymerization of 2-Ethyl Hexyl Acrylate/n-Butyl Acrylate/Methyl Methacrylate/Cellulose Nanocrystal Nanocomposites for Adhesive Applications. *Macromolecular Reaction Engineering*, **2018**, 12, 1700068	1.5	24
94	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
93	Incorporating Cellulose Nanocrystals into the Core of Polymer Latex Particles via Polymer Grafting. *ACS Macro Letters*, **2018**, 7, 990-996	6.6	22
92	Starch nanoparticle incorporation in latex-based adhesives. *European Polymer Journal*, **2018**, 106, 128-138	5.2	17
91	Pressure sensitive adhesive property modification using cellulose nanocrystals. *International Journal of Adhesion and Adhesives*, **2018**, 81, 36-42	3.4	64
90	Synthesis of Poly(n-butyl acrylate/methyl methacrylate)/CNC Latex Nanocomposites via In Situ Emulsion Polymerization. *Macromolecular Reaction Engineering*, **2017**, 11, 1700013	1.5	30
89	Bulk Free-Radical Copolymerization of n-Butyl Acrylate and n-Butyl Methacrylate: Reactivity Ratio Estimation. *Macromolecular Reaction Engineering*, **2017**, 11, 1600050	1.5	6

88	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	3.4	10
87	Cellulose Nanocrystals and Methyl Cellulose as Costabilizers for Nanocomposite Latexes with Double Morphology. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 10509-10517	8.3	39
86	Green Emulsion Polymerization Technology. *Advances in Polymer Science*, **2017**, 65-100	1.3	11
85	Emulsion-based pressure sensitive adhesives from conjugated linoleic acid/styrene/butyl acrylate terpolymers. *International Journal of Adhesion and Adhesives*, **2016**, 70, 17-25	3.4	12
84	Bulk Terpolymerization of Conjugated Linoleic Acid with Styrene and Butyl Acrylate. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 264-272	8.3	11
83	Modeling of the Copolymerization Kinetics of n-Butyl Acrylate and d-Limonene Using PREDICI . *Processes*, **2016**, 4, 1	2.9	36
82	Determination of reactivity ratios for the copolymerization of poly(acrylic acid-co-itaconic acid). *Journal of Applied Polymer Science*, **2016**, 133,	2.9	7
81	Modelling Degradative Chain Transfer in d-Limonene/2-Ethylhexyl Acrylate Free-Radical Copolymerization. *Macromolecular Symposia*, **2016**, 360, 185-191	0.8	3
80	Nitroxide-Mediated Polymerization of n-Butyl Acrylate and D-Limonene. *Macromolecular Symposia*, **2016**, 360, 152-159	0.8	4
79	Infrared process monitoring of conjugated linoleic acid/styrene/butyl acrylate bulk and emulsion terpolymerization. *Journal of Applied Polymer Science*, **2016**, 133,	2.9	12
78	Poly(Sodium Acrylate)-Based Nanocomposite Bioadhesives for Sutureless Surgery. *Macromolecular Symposia*, **2016**, 360, 199-206	0.8	1
77	Conjugated Linoleic Acid/Styrene/Butyl Acrylate Bulk and Emulsion Polymerization for Adhesive Applications. *Macromolecular Symposia*, **2016**, 370, 110-119	0.8	1
76	Effect of pH on Poly(acrylic acid) Solution Polymerization. *Journal of Macromolecular Science - Pure and Applied Chemistry*, **2015**, 52, 587-592	2.2	19
75	Copolymerization of Limonene with n-Butyl Acrylate. *Macromolecular Reaction Engineering*, **2015**, 9, 339-349	1.9	19
74	Reaction Monitoring of in Situ Formation of Poly(sodium acrylate)-Based Nanocomposites Using ATR-FTIR Spectroscopy. *Industrial & Engineering Chemistry Research*, **2015**, 54, 5598-5603	3.9	5
73	Copolymerization of 2-Ethylhexyl Acrylate and D-Limonene. *Polymer-Plastics Technology and Engineering*, **2015**, 54, 499-505		16
72	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
71	Free-radical terpolymerization of n-butyl acrylate/butyl methacrylate/d-limonene. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	7

70	In situ poly(sodium acrylate)-based nanocomposite formation by redox-initiated solution polymerization. *Polymer Engineering and Science*, **2015**, 55, 1230-1236	2.3	8
69	Modeling of Network Formation in the Atom Transfer Radical Co-Polymerization (ATRP) of Vinyl/Divinyl Monomers Using a Multifunctional Polymer Molecule Approach. *Macromolecular Theory and Simulations*, **2014**, 23, 429-441	1.5	10
68	Copolymerization of n-Butyl Methacrylate and D-Limonene. *Macromolecular Reaction Engineering*, **2014**, 8, 805-812	1.5	20
67	Applying the Principles of Green Chemistry to Polymer Production Technology. *Macromolecular Reaction Engineering*, **2014**, 8, 7-28	1.5	104
66	Acid-catalyzed esterification of naphthenic acids. *Environmental Progress and Sustainable Energy*, **2013**, 32, 406-410	2.5	6
65	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	2.3	5
64	Copolymerization **2013**, 105-125		4
63	Bioadhesives: A Review. *Macromolecular Reaction Engineering*, **2013**, 7, 573-587	1.5	56
62	The Effect of Polymer Microstructure and Thermal Post-Treatment on Latex-Based Pressure Sensitive Adhesive Performance. *Macromolecular Symposia*, **2013**, 324, 49-54	0.8	1
61	Synthesis of novel stimuli-responsive polyglycerol-based hydrogels. *European Journal of Lipid Science and Technology*, **2012**, 114, 92-99	3	16
60	Influence of polymer microstructure on the performance of post-treated latex-based pressure sensitive adhesives. *Journal of Applied Polymer Science*, **2012**, 124, 349-364	2.9	17
59	Reaction Monitoring of Glycerol Step-Growth Polymerization Using ATR-FTIR Spectroscopy. *Macromolecular Reaction Engineering*, **2012**, 6, 85-92	1.5	40
58	Application Properties of Stimuli-Responsive Polyglycerol Hydrogels. *Journal of Macromolecular Science - Pure and Applied Chemistry*, **2012**, 49, 103-110	2.2	6
57	Towards Sustainable Solution Polymerization: Biodiesel as a Polymerization Solvent **2011**, 143-161		1
56	Manipulating Latex Polymer Microstructure Using Chain Transfer Agent and Cross-Linker to Modify PSA Performance and Viscoelasticity. *Macromolecular Reaction Engineering*, **2011**, 5, 117-128	1.5	21
55	Towards the Sustainable Production of Higher-Molecular-Weight Polyglycerol. *Macromolecular Chemistry and Physics*, **2011**, 212, 1284-1293	2.6	48
54	Semi-Continuous Emulsion Copolymerization of Styrene-Butyl Acrylate with Methacrylic Acid: Screening Design of Experiments. *Polymer-Plastics Technology and Engineering*, **2011**, 50, 349-361		14
53	Separation of glycerol from FAME using ceramic membranes. *Fuel Processing Technology*, **2011**, 92, 1305-1310	7	45

52	Preparation of Stable Miniemulsions of Poly(2-ethyl hexyl acrylate-co-vinyl acetate). *Macromolecular Symposia*, **2010**, 289, 72-85	0.8	5
51	In-Line Monitoring of SBR Emulsion Polymerization Using ATR-FTIR Spectroscopy. *Polymer-Plastics Technology and Engineering*, **2010**, 49, 648-656		14
50	Glycerol removal from biodiesel using membrane separation technology. *Fuel*, **2010**, 89, 2260-2266	7.1	131
49	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	3.4	51
48	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	5.2	38
47	Miniemulsion vs. conventional emulsion polymerization for pressure-sensitive adhesives production. *Chemical Engineering Science*, **2010**, 65, 2797-2810	4.4	34
46	Solution polymerization of styrene using biodiesel as a solvent: Effect of biodiesel feedstock. *Canadian Journal of Chemical Engineering*, **2009**, 87, 129-135	2.3	21
45	A Critical Overview of Sensors for Monitoring Polymerizations. *Macromolecular Reaction Engineering*, **2009**, 3, 327-373	1.5	59
44	Macromol. React. Eng. 7/2009. *Macromolecular Reaction Engineering*, **2009**, 3, NA-NA	1.5	2
43	Kinetics of Canola Oil Transesterification in a Membrane Reactor. *Industrial & Engineering Chemistry Research*, **2009**, 48, 2533-2541	3.9	51
42	Optimal Separation of Glycerol and Methyl Oleate via Liquid–Liquid Extraction. *Journal of Chemical & Engineering Data*, **2009**, 54, 1541-1550	2.8	13
41	Liquid–Liquid Equilibria of the Methyl Oleate–Glycerol–Hexane–Methanol System. *Industrial & Engineering Chemistry Research*, **2008**, 47, 443-450	3.9	13
40	Biodiesel: a green polymerization solvent. *Green Chemistry*, **2008**, 10, 321	10	40
39	Influence of Particle Nucleation in Pressure Sensitive Adhesive Properties: Miniemulsion versus Emulsion Polymerization. *Macromolecular Symposia*, **2008**, 271, 83-93	0.8	10
38	Transesterification of Canola Oil to Fatty Acid Methyl Ester (FAME) in a Continuous Flow Liquid–Liquid Packed Bed Reactor. *Energy & Fuels*, **2008**, 22, 3551-3556	4.1	20
37	Variables Affecting the Induction Period during Acid-Catalyzed Transesterification of Canola Oil to FAME. *Energy & Fuels*, **2008**, 22, 679-685	4.1	23
36	The use of biodiesel as a green polymerization solvent at elevated temperatures. *Polymer International*, **2008**, 57, 854-862	3.3	21
35	Butyl Acrylate/Vinyl Acetate Emulsion-Based Pressure-Sensitive Adhesives: Empirical Modelling of Final Properties. *Canadian Journal of Chemical Engineering*, **2008**, 85, 341-349	2.3	6

34	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	5.3	117
33	Methanol recycling in the production of biodiesel in a membrane reactor. *Fuel*, **2008**, 87, 825-833	7.1	71
32	Acid-Catalyzed Transesterification of Canola Oil to Biodiesel under Single- and Two-Phase Reaction Conditions. *Energy & Fuels*, **2007**, 21, 2450-2459	4.1	77
31	Effect of Membrane Pore Size on the Performance of a Membrane Reactor for Biodiesel Production. *Industrial & Engineering Chemistry Research*, **2007**, 46, 52-58	3.9	106
30	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	2.9	15
29	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	3.9	49
28	The effect of particle size and composition on the performance of styrene/butyl acrylate miniemulsion-based PSAs. *Polymer*, **2006**, 47, 799-807	3.9	39
27	Screening Experiments for Butyl Acrylate/Vinyl Acetate Pressure-Sensitive Adhesives. *Industrial & Engineering Chemistry Research*, **2005**, 44, 6668-6675	3.9	32
26	A comparison of attenuated total reflectance-FTIR spectroscopy and GPC for monitoring biodiesel production. *JAOCS, Journal of the American Oil ChemistsoSociety*, **2004**, 81, 599-603	1.8	70
25	Butyl Acrylate/Vinyl Acetate Miniemulsion Polymerization: A Study on Compartmentalization. *Macromolecular Chemistry and Physics*, **2004**, 205, 958-965	2.6	5
24	Empirical Modeling of Butyl Acrylate/Vinyl Acetate/Acrylic Acid Emulsion-Based Pressure-Sensitive Adhesives. *Macromolecular Materials and Engineering*, **2004**, 289, 467-474	3.9	17
23	Off-line monitoring of styrene/butyl acrylate copolymerizations in toluene using ATR-FTIR spectroscopy. *Polymer*, **2004**, 45, 345-354	3.9	12
22	Butyl acrylate/methyl methacrylate latexes: adhesive properties. *Macromolecular Symposia*, **2004**, 206, 43-56	0.8	30
21	Compartmentalisation in miniemulsions: exploration of compartmentalisation and some interesting end-uses. *Macromolecular Symposia*, **2004**, 206, 107-120	0.8	3
20	Monomer compartmentalisation in miniemulsion polymerisation studied by infrared spectroscopy. *Comptes Rendus Chimie*, **2003**, 6, 1343-1349	2.7	13
19	In-Line Monitoring of Butyl Acrylate/Vinyl Acetate Emulsion Copolymerizations Using ATR-FTIR Spectroscopy. *Polymer-Plastics Technology and Engineering*, **2003**, 11, 233-257		8
18	Bulk and Solution Copolymerization of Butyl Acrylate/Methyl Methacrylate at Elevated Temperatures. *Macromolecular Chemistry and Physics*, **2002**, 203, 2446-2453	2.6	9
17	IN-LINE MONITORING OF EMULSION HOMO- AND COPOLYMERIZATIONS USING ATR-FTIR SPECTROMETRY. *Polymer-Plastics Technology and Engineering*, **2002**, 10, 21-39		25

16	Terpolymerization monitoring with ATR-FTIR spectroscopy. *Journal of Polymer Science Part A*, **2001**, 39, 1860-1876	2.5	31
15	Off-line monitoring of butyl acrylate and vinyl acetate homopolymerization and copolymerization in toluene. *Journal of Applied Polymer Science*, **2001**, 82, 2958-2977	2.9	31
14	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	3.9	24
13	Off-line monitoring of butyl acrylate and vinyl acetate homopolymerization and copolymerization in toluene **2001**, 82, 2958		1
12	Engineering Student Success: How Does it Happen and Who is Responsible?. *Journal of Engineering Education*, **1999**, 88, 149-152	2.3	2
11	Mathematical Modeling of Multicomponent Chain-Growth Polymerizations in Batch, Semibatch, and Continuous Reactors: A Review. *Industrial & Engineering Chemistry Research*, **1997**, 36, 966-1015	3.9	143
10	Emulsion terpolymerization of butyl acrylate/methyl methacrylate/vinyl acetate: Experimental results. *Journal of Polymer Science Part A*, **1997**, 35, 1659-1672	2.5	9
9	Emulsion terpolymerization of butyl acrylate/methyl methacrylate/vinyl acetate: Experimental results **1997**, 35, 1659		1
8	Mathematical Modeling of Emulsion Copolymerization of Acrylonitrile/Butadiene. *Industrial & Engineering Chemistry Research*, **1996**, 35, 4434-4448	3.9	26
7	Hierarchical data analysis of a replicate experiment in emulsion terpolymerization. *AICHE Journal*, **1996**, 42, 1985-1994	3.6	6
6	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	2.5	15
5	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	3.3	20
4	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	2.6	21
3	A kinetic investigation of styrene/butyl acrylate copolymerization. *Canadian Journal of Chemical Engineering*, **1990**, 68, 974-987	2.3	22
2	Mathematical modelling of styrene/butyl acrylate copolymerization. *Chemical Engineering Science*, **1990**, 45, 2785-2792	4.4	24
1	Improving Latex-Based Pressure-Sensitive Adhesive Properties Using Carboxylated Cellulose Nanocrystals. *Macromolecular Reaction Engineering*,2100051	1.5	0