

# Bryan S Beckingham

## List of Publications by Year in descending order

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34  
papers

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citations

623188

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610482

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docs citations

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times ranked

891  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-healing in high impact polystyrene (HIPS) composites via embedded non-toxic solvent-filled microcapsules. Journal of Applied Polymer Science, 2022, 139, 51463.	1.3	5
2	Impact of PEGMA on transport and co-transport of methanol and acetate in PEGDA-AMPS cation exchange membranes. Journal of Membrane Science, 2022, 642, 119950.	4.1	6
3	Curing kinetics of tetrathiol-crosslinked diglycidyl ether of bisphenol A and poly(ethylene terephthalate) (PET) blends. Journal of Applied Polymer Science, 2022, 139, 51463.	1.3	2
4	Poly(acrylic acid)-Based Hydrogel Actuators Fabricated via Digital Light Projection Additive Manufacturing. ACS Applied Polymer Materials, 2022, 4, 971-979.	2.0	10
5	Material Design for Enhancing Properties of 3D Printed Polymer Composites for Target Applications. Technologies, 2022, 10, 45.	3.0	11
6	Fused Filament Fabrication 3D Printing of Self-Healing High-Impact Polystyrene Thermoplastic Polymer Composites Utilizing Eco-friendly Solvent-Filled Microcapsules. ACS Applied Polymer Materials, 2022, 4, 3324-3332.	2.0	7
7	Resin based 3D printing for fabricating reactive porous media. Materials Letters, 2022, 322, 132469.	1.3	4
8	Comonomer effects on co-permeation of methanol and acetate in cation exchange membranes. European Polymer Journal, 2021, 147, 110307.	2.6	11
9	Transport and co-transport of carboxylate ions and alcohols in cation exchange membranes. Journal of Polymer Science, 2021, 59, 2545-2558.	2.0	8
10	Transport and Co-Transport of Carboxylate Ions and Ethanol in Anion Exchange Membranes. Polymers, 2021, 13, 2885.	2.0	9
11	Fabrication and Characterization of Cross-Linked Phenyl-Acrylate-Based Ion Exchange Membranes and Performance in a Direct Urea Fuel Cell. Industrial & Engineering Chemistry Research, 2021, 60, 14856-14867.	1.8	8
12	Multicomponent transport of alcohols in Nafion 117 measured by in situ ATR FTIR spectroscopy. Polymer, 2020, 209, 123046.	1.8	12
13	Multicomponent transport of methanol and acetate in a series of crosslinked PEGDA-AMPS cation exchange membranes. Journal of Membrane Science, 2020, 614, 118486.	4.1	10
14	Multicomponent transport of methanol and sodium acetate in poly(ethylene glycol) diacrylate membranes of varied fractional free volume. European Polymer Journal, 2020, 134, 109809.	2.6	14
15	Stereolithography 3D Printing of Microcapsule Catalyst-Based Self-Healing Composites. ACS Applied Polymer Materials, 2020, 2, 5048-5057.	2.0	25
16	Low-field <sup>1</sup> H NMR spectroscopy: Factors impacting signal-to-noise ratio and experimental time in the context of mixed microstructure polyisoprenes. Magnetic Resonance in Chemistry, 2020, 58, 1168-1176.	1.1	8
17	Tuning Compositional Drift in the Anionic Copolymerization of Styrene and Isoprene. Macromolecules, 2020, 53, 3814-3821.	2.2	11
18	Solution processible statistical poly(3-methoxythiophene)-co-poly(3-hexylthiophene) copolymer. Materials Letters, 2019, 256, 126563.	1.3	6

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19	Low-field <sup>1</sup> H-NMR spectroscopy for compositional analysis of multicomponent polymer systems. <i>Analyst</i> , 2019, 144, 1679-1686.	1.7	16
20	Statistical copolymers of 3-hexylthiophene and thiophene: Impact of thiophene content on optoelectronic and thermal properties. <i>Materials Today Communications</i> , 2019, 20, 100547.	0.9	5
21	Recommendation for Accurate Experimental Determination of Reactivity Ratios in Chain Copolymerization. <i>Macromolecules</i> , 2019, 52, 2277-2285.	2.2	45
22	Monitoring multicomponent transport using in situ ATR FTIR spectroscopy. <i>Journal of Membrane Science</i> , 2018, 550, 348-356.	4.1	47
23	Multicomponent transport of alcohols in an anion exchange membrane measured by in-situ ATR FTIR spectroscopy. <i>Polymer</i> , 2017, 123, 144-152.	1.8	22
24	Confined crystallization in lamellae forming poly(3-(2-ethyl)hexylthiophene) (P3EHT) block copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 205-215.	2.4	20
25	Structure-Conductivity Relationships of Block Copolymer Membranes Based on Hydrated Protic Polymerized Ionic Liquids: Effect of Domain Spacing. <i>Macromolecules</i> , 2016, 49, 2216-2223.	2.2	43
26	Role of Side-Chain Branching on Thin-Film Structure and Electronic Properties of Polythiophenes. <i>Advanced Functional Materials</i> , 2015, 25, 2616-2624.	7.8	65
27	Simple and Accurate Determination of Reactivity Ratios Using a Nonterminal Model of Chain Copolymerization. <i>Macromolecules</i> , 2015, 48, 6922-6930.	2.2	87
28	Melting Behavior of Poly(3-(2-ethyl)hexylthiophene). <i>Macromolecules</i> , 2014, 47, 8305-8310.	2.2	17
29	Control of thermal and optoelectronic properties in conjugated poly(3-alkylthiophenes). <i>MRS Communications</i> , 2014, 4, 45-50.	0.8	6
30	Formation of a Rigid Amorphous Fraction in Poly(3-(2-ethyl)hexylthiophene). <i>ACS Macro Letters</i> , 2014, 3, 684-688.	2.3	32
31	Mixing Thermodynamics of Ternary Block-Random Copolymers Containing a Polyethylene Block. <i>Macromolecules</i> , 2013, 46, 2760-2766.	2.2	16
32	Regular Mixing Thermodynamics of Hydrogenated Styrene-Isoprene Block-Random Copolymers. <i>Macromolecules</i> , 2013, 46, 3084-3091.	2.2	18
33	Architecture-Induced Microphase Separation in Nonfrustrated A-B-C Triblock Copolymers. <i>Macromolecules</i> , 2013, 46, 3486-3496.	2.2	15
34	Synthesis and Phase Behavior of Block-Random Copolymers of Styrene and Hydrogenated Isoprene. <i>Macromolecules</i> , 2011, 44, 4313-4319.	2.2	32