

# Kyle C Bentz

## List of Publications by Year in descending order

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27  
papers

1,846  
citations

471509

17  
h-index

526287

27  
g-index

27  
all docs

27  
docs citations

27  
times ranked

2625  
citing authors

#	ARTICLE	IF	CITATIONS
1	MOF-Polymer Hybrid Materials: From Simple Composites to Tailored Architectures. <i>Chemical Reviews</i> , 2020, 120, 8267-8302.	47.7	512
2	Catalyst-Free Vitrimers from Vinyl Polymers. <i>Macromolecules</i> , 2019, 52, 2105-2111.	4.8	205
3	Tuning Hydrophobicity To Program Block Copolymer Assemblies from the Inside Out. <i>Macromolecules</i> , 2017, 50, 935-943.	4.8	166
4	Nylon-MOF Composites through Postsynthetic Polymerization. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2336-2340.	13.8	132
5	Supramolecular Metallopolymers: From Linear Materials to Infinite Networks. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14992-15001.	13.8	113
6	Defect-Free MOF-Based Mixed-Matrix Membranes Obtained by Corona Cross-Linking. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 13029-13037.	8.0	91
7	Block co-polyMOFs: morphology control of polymer-MOF hybrid materials. <i>Chemical Science</i> , 2019, 10, 1746-1753.	7.4	68
8	Halogen bonding in UiO-66 frameworks promotes superior chemical warfare agent simulant degradation. <i>Chemical Communications</i> , 2019, 55, 3481-3484.	4.1	68
9	Hollow polymer nanocapsules: synthesis, properties, and applications. <i>Polymer Chemistry</i> , 2018, 9, 2059-2081.	3.9	58
10	Insights into the Structure and Dynamics of Metal-Organic Frameworks via Transmission Electron Microscopy. <i>Journal of the American Chemical Society</i> , 2020, 142, 17224-17235.	13.7	57
11	Multicomponent metal-organic framework membranes for advanced functional composites. <i>Chemical Science</i> , 2018, 9, 8842-8849.	7.4	54
12	Multiple functional groups in UiO-66 improve chemical warfare agent simulant degradation. <i>Chemical Communications</i> , 2019, 55, 5367-5370.	4.1	54
13	Polypropylene: Now Available without Chain Ends. <i>CheM</i> , 2019, 5, 237-244.	11.7	53
14	Nylon-MOF Composites through Postsynthetic Polymerization. <i>Angewandte Chemie</i> , 2019, 131, 2358-2362.	2.0	38
15	Chain Dispersity Effects on Brush Properties of Surface-Grafted Polycaprolactone-Modified Silica Nanoparticles: Unique Scaling Behavior in the Concentrated Polymer Brush Regime. <i>Macromolecules</i> , 2017, 50, 5565-5573.	4.8	28
16	Hollow amphiphilic crosslinked nanocapsules from sacrificial silica nanoparticle templates and their application as dispersants for oil spill remediation. <i>Polymer Chemistry</i> , 2017, 8, 5129-5138.	3.9	21
17	Modular and rapid access to amphiphilic homopolymers via successive chemoselective post-polymerization modification. <i>Polymer Chemistry</i> , 2017, 8, 6028-6032.	3.9	19
18	Solvent effects on modulus of poly(propylene oxide)-based organogels as measured by cavitation rheology. <i>Soft Matter</i> , 2016, 12, 4991-5001.	2.7	18

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19	Supramolekulare Metallopolymere: Von linearen Materialien zu infiniten Netzwerken. <i>Angewandte Chemie</i> , 2018, 130, 15208-15218.	2.0	13
20	Quantitative relationship between cavitation and shear rheology. <i>Soft Matter</i> , 2018, 14, 8395-8400.	2.7	12
21	Inside polyMOFs: layered structures in polymer-based metal-organic frameworks. <i>Chemical Science</i> , 2020, 11, 10523-10528.	7.4	12
22	Polyacids as Modulators for the Synthesis of UiO-66. <i>Australian Journal of Chemistry</i> , 2019, 72, 848.	0.9	11
23	Probing Membrane Hydration at the Interface of Self-Assembled Peptide Amphiphiles Using Electron Paramagnetic Resonance. <i>ACS Macro Letters</i> , 2018, 7, 1261-1266.	4.8	10
24	Hierarchical Fractal Assemblies from Poly(ethylene oxide-b-lysine-b-leucine). <i>Biomacromolecules</i> , 2019, 20, 2557-2566.	5.4	10
25	Darunavir-Resistant HIV-1 Protease Constructs Uphold a Conformational Selection Hypothesis for Drug Resistance. <i>Viruses</i> , 2020, 12, 1275.	3.3	8
26	Mediating covalent crosslinking of single-chain nanoparticles through solvophobicity in organic solvents. <i>Polymer Chemistry</i> , 2021, 12, 4462-4466.	3.9	8
27	Remote Detection of HCN, HF, and Nerve Agent Vapors Based on Self-Referencing, Dye-Impregnated Porous Silicon Photonic Crystals. <i>ACS Sensors</i> , 2021, 6, 418-428.	7.8	7