

David Uhrig

List of Publications by Year in descending order

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39
papers

1,677
citations

257450

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docs citations

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times ranked

1787
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase segregation mechanisms of small molecule-polymer blends unraveled by varying polymer chain architecture. <i>SmartMat</i> , 2021, 2, 367-377.	10.7	18
2	Entropy and Enthalpy Mediated Segregation of Bottlebrush Copolymers to Interfaces. <i>Macromolecules</i> , 2019, 52, 8910-8922.	4.8	29
3	Direct measurement of topological interactions in polymers under shear using neutron spin echo spectroscopy. <i>Scientific Reports</i> , 2019, 9, 2823.	3.3	3
4	Rigid Oligomer from Lignin in Designing of Tough, Self-Healing Elastomers. <i>ACS Macro Letters</i> , 2018, 7, 1328-1332.	4.8	54
5	Nanoporous poly(3-hexylthiophene) thin film structures from self-organization of a tunable molecular bottlebrush scaffold. <i>Nanoscale</i> , 2017, 9, 7071-7080.	5.6	18
6	Insight into the interactions between pyrene and polystyrene for efficient quenching nitroaromatic explosives. <i>Journal of Materials Chemistry C</i> , 2017, 5, 12466-12473.	5.5	11
7	Effect of Molecular Weight on the Ion Transport Mechanism in Polymerized Ionic Liquids. <i>Macromolecules</i> , 2016, 49, 4557-4570.	4.8	121
8	Graphene Oxide as a Radical Initiator: Free Radical and Controlled Radical Polymerization of Sodium 4-Vinylbenzenesulfonate with Graphene Oxide. <i>ACS Macro Letters</i> , 2016, 5, 199-202.	4.8	24
9	Fluorinated bottlebrush polymers based on poly(trifluoroethyl methacrylate): synthesis and characterization. <i>Polymer Chemistry</i> , 2016, 7, 680-688.	3.9	37
10	Scattering Studies on Poly(3,4-ethylenedioxythiophene)-Polystyrenesulfonate in the Presence of Ionic Liquids. <i>Macromolecules</i> , 2015, 48, 8989-8997.	4.8	35
11	Understanding the Decreased Segmental Dynamics of Supported Thin Polymer Films Reported by Incoherent Neutron Scattering. <i>Macromolecules</i> , 2015, 48, 801-808.	4.8	53
12	Thin Film Phase Behavior of Bottlebrush/Linear Polymer Blends. <i>Macromolecules</i> , 2014, 47, 5269-5276.	4.8	47
13	Structural Evolution of Polylactide Molecular Bottlebrushes: Kinetics Study by Size Exclusion Chromatography, Small Angle Neutron Scattering, and Simulations. <i>ACS Macro Letters</i> , 2014, 3, 862-866.	4.8	26
14	Poly(3-hexylthiophene) Molecular Bottlebrushes via Ring-Opening Metathesis Polymerization: Macromolecular Architecture Enhanced Aggregation. <i>ACS Macro Letters</i> , 2013, 2, 761-765.	4.8	48
15	Molecular Heterogeneity of Polystyrene-Modified Fullerene Core Stars. <i>Macromolecules</i> , 2013, 46, 7451-7457.	4.8	3
16	Hydration in Weak Polyelectrolyte Brushes. <i>ACS Macro Letters</i> , 2013, 2, 398-402.	4.8	27
17	Hydrodynamics of polystyrene-polyisoprene miktoarm star copolymers in a selective and a non-selective solvent. <i>Soft Matter</i> , 2012, 8, 10061.	2.7	9
18	Impact of chain architecture (branching) on the thermal and mechanical behavior of polystyrene thin films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 370-377.	2.1	39

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19	High-Strain-Induced Deformation Mechanisms in Block-Graft and Multigraft Copolymers. <i>Macromolecules</i> , 2011, 44, 9374-9383.	4.8	17
20	Combatting ionic aggregation using dielectric forces—combining modeling/simulation and experimental results to explain end-capping of primary amine functionalized polystyrene. <i>Polymer Chemistry</i> , 2011, 2, 2481.	3.9	1
21	Synthesis of well-defined multigraft copolymers. <i>Polymer Chemistry</i> , 2011, 2, 69-76.	3.9	64
22	Multigraft copolymer superelastomers: Synthesis morphology, and properties. <i>European Polymer Journal</i> , 2011, 47, 560-568.	5.4	36
23	Stress softening of multigraft copolymers. <i>Polymer</i> , 2009, 50, 6297-6304.	3.8	22
24	Investigations on mechanical properties of PI-PS multigraft copolymers. <i>European Polymer Journal</i> , 2009, 45, 2902-2912.	5.4	15
25	Self-Assembly of Coil/Liquid-Crystalline Diblock Copolymers in a Liquid Crystal Solvent. <i>Macromolecules</i> , 2009, 42, 299-307.	4.8	9
26	Interpretation of hysteresis behaviour of PI-PS multigraft copolymers by adapting to the dynamic flocculation model. <i>European Polymer Journal</i> , 2008, 44, 3790-3796.	5.4	14
27	Synthesis and Characterization of an ABC Miktoarm Star Terpolymer of Cyclohexadiene, Styrene, and 2-Vinylpyridine. <i>Macromolecules</i> , 2008, 41, 9480-9482.	4.8	12
28	Aligned Carbon Nanotube Polymer Composites. , 2007, , .		0
29	Morphology and Tensile Properties of Multigraft Copolymers with Regularly Spaced Tri-, Tetra-, and Hexafunctional Junction Points. <i>Macromolecules</i> , 2006, 39, 4428-4436.	4.8	71
30	Mechanical Properties and Hysteresis Behaviour of Multigraft Copolymers. <i>Macromolecular Symposia</i> , 2006, 233, 42-50.	0.7	32
31	Experimental techniques in high-vacuum anionic polymerization. <i>Journal of Polymer Science Part A</i> , 2005, 43, 6179-6222.	2.3	262
32	Role of Branching on the Structure of Polymer Brushes Formed from Comb Copolymers. <i>Macromolecules</i> , 2005, 38, 2524-2529.	4.8	15
33	Synthesis and Structure-Property Relationships for Regular Multigraft Copolymers. <i>Macromolecular Symposia</i> , 2004, 215, 111-126.	0.7	37
34	Utility of Interaction Chromatography for Probing Structural Purity of Model Branched Copolymers: A 4-Miktoarm Star Copolymer. <i>Macromolecules</i> , 2003, 36, 5834-5838.	4.8	35
35	Synthesis of Combs, Centipedes, and Barbwires: Poly(isoprene-graft-styrene) Regular Multigraft Copolymers with Trifunctional, Tetrafunctional, and Hexafunctional Branch Points. <i>Macromolecules</i> , 2002, 35, 7182-7190.	4.8	126
36	Tetrafunctional Multigraft Copolymers as Novel Thermoplastic Elastomers. <i>Macromolecules</i> , 2001, 34, 6333-6337.	4.8	83

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37	Graft Copolymers with Regularly Spaced, Tetrafunctional Branch Points: Morphology and Grain Structure. <i>Macromolecules</i> , 2000, 33, 2039-2048.	4.8	109
38	Morphological behavior of A2B2 star block copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999, 37, 3392-3400.	2.1	43
39	Living anionic polymerization. <i>Current Opinion in Solid State and Materials Science</i> , 1999, 4, 531-538.	11.5	72