

Volker Abetz

List of Publications by Year in descending order

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341
papers

14,285
citations

27035

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35168

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357
all docs

357
docs citations

357
times ranked

11488
citing authors

#	ARTICLE	IF	CITATIONS
1	Blended vinylogous urethane/urea vitrimers derived from aromatic alcohols. <i>Polymer Chemistry</i> , 2022, 13, 946-958.	1.9	14
2	Improved alkali metal ion capturing utilizing crown ether-based diblock copolymers in a sandwich-type complexation. <i>Soft Matter</i> , 2022, 18, 934-937.	1.2	7
3	Reactive Hydride Composite Confined in a Polymer Matrix: New Insights into the Desorption and Absorption of Hydrogen in a Storage Material with High Cycling Stability. <i>Advanced Materials Technologies</i> , 2022, 7, 2101584.	3.0	4
4	Highly selective isoporous block copolymer membranes with tunable polyelectrolyte brushes in soft nanochannels. <i>Journal of Membrane Science</i> , 2022, 646, 120266.	4.1	10
5	Double thermoresponsive graft copolymers with different chain ends: feasible precursors for covalently crosslinked hydrogels. <i>Soft Matter</i> , 2022, 18, 2082-2091.	1.2	5
6	Block Copolymers with Crystallizable Blocks: Synthesis, Self-Assembly and Applications. <i>Polymers</i> , 2022, 14, 696.	2.0	3
7	Open-Celled Foams of Polyethersulfone/Poly(N-vinylpyrrolidone) Blends for Ultrafiltration Applications. <i>Polymers</i> , 2022, 14, 1177.	2.0	4
8	Synthesis of a Degradable Hydrogel Based on a Graft Copolymer with Unexpected Thermoresponsiveness. <i>Macromolecular Chemistry and Physics</i> , 2022, 223, .	1.1	2
9	RAFT Emulsion Polymerization of Styrene Using a Poly((N,N-dimethyl acrylamide)-co-(N-isopropyl) Tj ETQq1 1 0.784314 rgBT /Overloc	2.0	13
10	Investigation of the Side Chain Effect on Gas and Water Vapor Transport Properties of Anthracene-Maleimide Based Polymers of Intrinsic Microporosity. <i>Polymers</i> , 2022, 14, 119.	2.0	6
11	Thermodynamic study of crown etherâ€“lithium/magnesium complexes based on benz-1,4-dioxane and its homologues. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 11687-11695.	1.3	3
12	Lithium selectivity of crown ethers: The effect of heteroatoms and cavity size. <i>Separation and Purification Technology</i> , 2022, 294, 121142.	3.9	20
13	Polymerizations by RAFT: Developments of the Technique and Its Application in the Synthesis of Tailored (Co)polymers. <i>Macromolecular Chemistry and Physics</i> , 2021, 222, 2000311.	1.1	50
14	Well-defined polyvinylpyridine- <i>block</i> -polystyrene diblock copolymers <i>via</i> RAFT aqueous-alcoholic dispersion polymerization: synthesis and isoporous thin film morphology. <i>Polymer Chemistry</i> , 2021, 12, 2210-2221.	1.9	17
15	Nonionic UCSTâ€“LCST Diblock Copolymers with Tunable Thermoresponsiveness Synthesized via PhotoRAFT Polymerization. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2000648.	2.0	18
16	Fabrication and function of polymer membranes. <i>Chemistry Teacher International</i> , 2021, 3, 141-154.	0.9	10
17	Computational fluid dynamics simulation of the rollâ€“roll coating process for the production of thin film composite membranes including validation. <i>Journal of Advanced Manufacturing and Processing</i> , 2021, 3, e10076.	1.4	3
18	Atomic Layer Deposition for Gradient Surface Modification and Controlled Hydrophilization of Ultrafiltration Polymer Membranes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15591-15600.	4.0	7

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19	A Highly Selective Polymer Material using Benzo ¹⁸ Crown ⁶ for the Extraction of Lithium in Presence of Other Interfering Alkali Metal Ions. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2000746.	2.0	18
20	Influence of the Glass Transition Temperature and the Density of Crosslinking Groups on the Reversibility of Diels-Alder Polymer Networks. <i>Polymers</i> , 2021, 13, 1189.	2.0	10
21	Nonequilibrium Processes in Polymer Membrane Formation: Theory and Experiment. <i>Chemical Reviews</i> , 2021, 121, 14189-14231.	23.0	63
22	Tailoring Crosslinked Polyether Networks for Separation of CO ₂ from Light Gases. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2100160.	2.0	6
23	Solvent-Induced Crystallization of Poly(phenylene sulfone). <i>Macromolecules</i> , 2021, 54, 4816-4826.	2.2	4
24	Dual Layer Hollow Fiber Membranes with Functionalized Separation Layer for Improved Hydrophilicity. <i>Chemie-Ingenieur-Technik</i> , 2021, 93, 1451-1456.	0.4	2
25	Influence of thermal treatment on the properties and intermolecular interactions of epoxidized natural rubber-salt systems. <i>Pure and Applied Chemistry</i> , 2021, 93, 1119-1139.	0.9	3
26	Experimental Design in Polymer Chemistry—A Guide towards True Optimization of a RAFT Polymerization Using Design of Experiments (DoE). <i>Polymers</i> , 2021, 13, 3147.	2.0	2
27	Hybrid Organic-Inorganic Organic Isoporous Membranes with Tunable Pore Sizes and Functionalities for Molecular Separation. <i>Advanced Materials</i> , 2021, 33, e2105251.	11.1	30
28	Model-Assisted Optimization of RAFT Polymerization in Micro-Scale Reactors—A Fast Screening Approach. <i>Macromolecular Reaction Engineering</i> , 2021, 15, 2000058.	0.9	10
29	Synthesis of Poly(methacrylic acid)-block-Polystyrene Diblock Copolymers at High Solid Contents via RAFT Emulsion Polymerization. <i>Polymers</i> , 2021, 13, 3675.	2.0	8
30	Self-assembly of gradient copolymers in a selective solvent. New structures and comparison with diblock and statistical copolymers. <i>Polymer</i> , 2021, 235, 124288.	1.8	8
31	Isoporous Membranes from Novel Polystyrene-b-poly(4-vinylpyridine)-b-poly(solketal methacrylate) (PS-b-P4VP-b-PSMA) Triblock Terpolymers and Their Post-Modification. <i>Polymers</i> , 2020, 12, 41.	2.0	20
32	Solubility behaviour of random and gradient copolymers of di- and oligo(ethylene oxide) methacrylate in water: effect of various additives. <i>Soft Matter</i> , 2020, 16, 1066-1081.	1.2	14
33	Hydrophilic Dual Layer Hollow Fiber Membranes for Ultrafiltration. <i>Membranes</i> , 2020, 10, 143.	1.4	10
34	Acid-Mediated Autocatalysis in Vinylogous Urethane Vitrimers. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000273.	2.0	24
35	Tuning the size selectivity of isoporous membranes for protein fractionation via two scalable post treatment approaches. <i>Journal of Membrane Science</i> , 2020, 614, 118535.	4.1	13
36	Polymethacrylamide—An underrated and easily accessible upper critical solution temperature polymer: Green synthesis via photoiniferter reversible addition-fragmentation chain transfer polymerization and analysis of solution behavior in water/ethanol mixtures. <i>Journal of Polymer Science</i> , 2020, 58, 3050-3060.	2.0	11

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37	Facilitated Structure Formation in Isoporous Block Copolymer Membranes upon Controlled Evaporation by Gas Flow. <i>Membranes</i> , 2020, 10, 83.	1.4	9
38	Continuous Kinetic Sampling of Flow Polymerizations via Inline UV-Vis Spectroscopy. <i>Macromolecular Rapid Communications</i> , 2020, 41, 2070022.	2.0	0
39	High-performance asymmetric isoporous nanocomposite membranes with chemically-tailored amphiphilic nanochannels. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9554-9566.	5.2	34
40	Quo Vadis, Macromolecular Science? Reflections by the IUPAC Polymer Division on the Occasion of the Staudinger Centenary. <i>Israel Journal of Chemistry</i> , 2020, 60, 9-19.	1.0	5
41	Enhanced Stability of Li-RHC Embedded in an Adaptive TPX ₂ Polymer Scaffold. <i>Materials</i> , 2020, 13, 991.	1.3	14
42	Continuous Kinetic Sampling of Flow Polymerizations via Inline UV-Vis Spectroscopy. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000029.	2.0	13
43	Advanced porous polymer membranes from self-assembling block copolymers. <i>Progress in Polymer Science</i> , 2020, 102, 101219.	11.8	119
44	An eco-friendly pathway to thermosensitive micellar nanoobjects via photoRAFT PISA: the full guide to poly(<i>N</i> -acryloylpyrrolidin)-block-poly(<i>N</i> -vinyl pyrrolidone)-polystyrene diblock copolymers. <i>Soft Matter</i> , 2020, 16, 2321-2331.	1.2	13
45	Chemically Tailored Multifunctional Asymmetric Isoporous Triblock Terpolymer Membranes for Selective Transport. <i>Advanced Materials</i> , 2020, 32, e1907014.	11.1	38
46	Fabrication of membranes of polyethersulfone and poly(<i>N</i> -vinyl pyrrolidone): influence of glycerol on processing and transport properties. <i>Polymer International</i> , 2020, 69, 502-512.	1.6	4
47	Bovine serum albumin selective integral asymmetric isoporous membrane. <i>Journal of Membrane Science</i> , 2020, 604, 118074.	4.1	20
48	Self-Assembly of Block Copolymers. <i>Polymers</i> , 2020, 12, 794.	2.0	4
49	Hydrophilic poly(phenylene sulfone) membranes for ultrafiltration. <i>Separation and Purification Technology</i> , 2020, 250, 117107.	3.9	13
50	Structure of Nonsolvent-Quenched Block Copolymer Solutions after Exposure to Electric Fields during Solvent Evaporation. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900646.	1.9	14
51	Phase behavior and dynamics of Pluronic [®] -based additives in semidilute solutions of poly(ethersulfone) and poly(<i>N</i> -vinyl pyrrolidone): rheological and dynamic light scattering experiments. <i>Rheologica Acta</i> , 2019, 58, 591-602.	1.1	5
52	Planet-Like Nanostructures Formed by an ABC Triblock Terpolymer. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900297.	1.1	5
53	In Honor of Reimund Stadler. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900370.	1.1	0
54	Structural Characterization of Graphene Oxide: Surface Functional Groups and Fractionated Oxidative Debris. <i>Nanomaterials</i> , 2019, 9, 1180.	1.9	275

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55	Synthesis of Poly(3-vinylpyridine)-Block-Polystyrene Diblock Copolymers via Surfactant-Free RAFT Emulsion Polymerization. <i>Materials</i> , 2019, 12, 3145.	1.3	18
56	Synthesis, Transfer, and Gas Separation Characteristics of MOF-Templated Polymer Membranes. <i>Membranes</i> , 2019, 9, 124.	1.4	10
57	Self-assembly of block copolymers during hollow fiber spinning: an <i>in situ</i> small-angle X-ray scattering study. <i>Nanoscale</i> , 2019, 11, 7634-7647.	2.8	14
58	Synthesis and self-assembly of biobased poly(limonene carbonate)- <i>block</i> -poly(cyclohexene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Chemistry, 2019, 21, 2266-2272.	4.6	35
59	Functional Macromolecular Systems: Kinetic Pathways to Obtain Tailored Structures. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1800334.	1.1	29
60	Quaternization of a Polystyrene- <i>block</i> -poly(4-vinylpyridine) Isoporous Membrane: An Approach to Tune the Pore Size and the Charge Density. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1800729.	2.0	32
61	Catalytically active (Pd) nanoparticles supported by electrospun PIM-1: Influence of the sorption capacity of the polymer tested in the reduction of some aromatic nitro compounds. <i>Applied Catalysis A: General</i> , 2018, 555, 178-188.	2.2	20
62	Hydroperoxide Traces in Common Cyclic Ethers as Initiators for Controlled RAFT Polymerizations. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1700683.	2.0	3
63	Determination of thermodynamic and structural quantities of polymers by scattering techniques. <i>Pure and Applied Chemistry</i> , 2018, 90, 955-968.	0.9	3
64	25 th World Forum on Advanced Materials (POLYCHAR-25). <i>Pure and Applied Chemistry</i> , 2018, 90, 937-938.	0.9	0
65	Hydrogen bonding and thermoplastic elastomers – a nice couple with temperature-adjustable mechanical properties. <i>Soft Matter</i> , 2018, 14, 2701-2711.	1.2	29
66	Double thermoresponsive block- <i>random</i> copolymers with adjustable phase transition temperatures: From block- <i>like</i> to gradient- <i>like</i> behavior. <i>Journal of Polymer Science Part A</i> , 2018, 56, 399-411.	2.5	22
67	Four-Phase Morphologies in Blends of ABC and BAC Triblock Terpolymers. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1700241.	1.1	8
68	Morphological Control Over Three- and Four-Phase Superstructures in Blends of Asymmetric ABC and BAC Triblock Terpolymers. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1800383.	1.1	3
69	Supramolecular Networks from Block Copolymers Based on Styrene and Isoprene Using Hydrogen Bonding Motifs – Part 1: Synthesis and Characterization. <i>Materials</i> , 2018, 11, 1608.	1.3	4
70	Investigation of gas transport and other physical properties in relation to the bromination degree of polymers of intrinsic microporosity. <i>Journal of Polymer Science Part A</i> , 2018, 56, 2752-2761.	2.5	8
71	Thermal Properties and Morphology of Compatible Poly(ethylene oxide)/Natural Rubber- <i>graft</i> -poly(methyl methacrylate) Blends. <i>Macromolecular Symposia</i> , 2018, 382, 1800083.	0.4	7
72	Polymeric and Low-Molecular Stabilizers for Au Nanoparticles in a Diblock Copolymer Matrix. <i>Polymer Science - Series C</i> , 2018, 60, 240-250.	0.8	2

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73	Supramolecular Networks from Block Copolymers Based on Styrene and Isoprene Using Hydrogen Bonding Motifs Part 2: Dynamic Mechanical Analysis. <i>Materials</i> , 2018, 11, 1688.	1.3	2
74	Stabilization of Gold Nanospheres and Nanorods in Diblock Copolymers of Styrene and Vinylpyridine. <i>Polymer Science - Series C</i> , 2018, 60, 78-85.	0.8	4
75	Air-stable metal hydride-polymer composites of Mg(NH ₂) ₂ ·LiH and TPX. <i>Materials Today Energy</i> , 2018, 10, 98-107.	2.5	22
76	Polymers of Intrinsic Microporosity Postmodified by Vinyl Groups for Membrane Applications. <i>Macromolecules</i> , 2018, 51, 7309-7319.	2.2	24
77	Ultraschnelle PhotoRAFT Blockcopolymerisation von Isopren und Styrol im kontinuierlichen Flussreaktor. <i>Angewandte Chemie</i> , 2018, 130, 14456-14460.	1.6	4
78	Ultrafast PhotoRAFT Block Copolymerization of Isoprene and Styrene Facilitated through Continuous Flow Operation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14260-14264.	7.2	53
79	Thermal rearrangement of <i>ortho</i> -allyloxypolyimide membranes and the effect of the degree of functionalization. <i>Polymer Chemistry</i> , 2018, 9, 3987-3999.	1.9	25
80	Setting the Stage for Fabrication of Self-Assembled Structures in Compact Geometries: Inside-Out Isoporous Hollow Fiber Membranes. <i>ACS Macro Letters</i> , 2018, 7, 840-845.	2.3	17
81	Postfunctionalization of Nanoporous Block Copolymer Membranes via Click Reaction on Polydopamine for Liquid Phase Separation. <i>ACS Applied Nano Materials</i> , 2018, 1, 3124-3136.	2.4	24
82	Novel Post-Treatment Approaches to Tailor the Pore Size of PS- <i>b</i> -PHEMA Isoporous Membranes. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800435.	2.0	22
83	Gas Separation Properties of Polyimide Thin Films on Ceramic Supports for High Temperature Applications. <i>Membranes</i> , 2018, 8, 16.	1.4	28
84	Development and Characterization of Defect-Free Matrimid® Mixed-Matrix Membranes Containing Activated Carbon Particles for Gas Separation. <i>Polymers</i> , 2018, 10, 51.	2.0	47
85	CO ₂ Selective PolyActive Membrane: Thermal Transitions and Gas Permeance as a Function of Thickness. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 26733-26744.	4.0	22
86	Novel functionalized polyamides prone to undergo thermal Claisen rearrangement in the solid state. <i>Polymer Chemistry</i> , 2018, 9, 4007-4016.	1.9	14
87	Formation of Thin, Isoporous Block Copolymer Membranes by an Upscalable Profile Roller Coating Process A Promising Way to Save Block Copolymer. <i>Membranes</i> , 2018, 8, 57.	1.4	32
88	Hollow Fiber Membranes of Blends of Polyethersulfone and Sulfonated Polymers. <i>Membranes</i> , 2018, 8, 54.	1.4	19
89	Conosolvency in the "drunken" state: the thermoresponsiveness of a new acrylamide copolymer in water-alcohol mixtures. <i>Polymer Chemistry</i> , 2017, 8, 1196-1205.	1.9	20
90	A Pathway to Fabricate Hollow Fiber Membranes with Isoporous Inner Surface. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600991.	1.9	24

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91	Influence of Solvent on the Structure of an Amphiphilic Block Copolymer in Solution and in Formation of an Integral Asymmetric Membrane. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 31224-31234.	4.0	57
92	Improvement of mechanical properties by a polydopamine interface in highly filled hierarchical composites of titanium dioxide particles and poly(vinyl butyral). <i>Composites Science and Technology</i> , 2017, 146, 73-82.	3.8	29
93	Structure Formation of Binary Blends of Amphiphilic Block Copolymers in Solution and in Bulk. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1600587.	1.1	7
94	A correlation between structural features of an amphiphilic diblock copolymer in solution and the structure of the porous surface in an integral asymmetric membrane. <i>Polymer</i> , 2017, 126, 376-385.	1.8	29
95	Thermodynamic analysis of alkali metal complex formation of polymer-bonded crown ether. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 15924-15932.	1.3	13
96	Blend membranes of ionic liquid and polymers of intrinsic microporosity with improved gas separation characteristics. <i>Journal of Membrane Science</i> , 2017, 539, 368-382.	4.1	58
97	Biobased Polycarbonate as a Gas Separation Membrane and "Breathing Glass" for Energy Saving Applications. <i>Advanced Materials Technologies</i> , 2017, 2, 1700026.	3.0	50
98	Porous UHMWPE Membranes and Composites Filled with Carbon Nanotubes: Permeability, Mechanical, and Electrical Properties. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1600405.	1.7	16
99	Preparation and characterisation of open-celled foams using polystyrene- <i>b</i> -poly(4-vinylpyridine) and poly(4-methylstyrene)- <i>b</i> -poly(4-vinylpyridine) diblock copolymers. <i>Polymer</i> , 2017, 108, 400-412.	1.8	16
100	Continuous Production of Macroporous Films: an Alternative to Breath Figure Assembly. <i>Scientific Reports</i> , 2017, 7, 8050.	1.6	14
101	Influence of the Composition and Imidization Route on the Chain Packing and Gas Separation Properties of Fluorinated Copolyimides. <i>Macromolecules</i> , 2017, 50, 5839-5849.	2.2	23
102	Exceptionally strong, stiff and hard hybrid material based on an elastomer and isotropically shaped ceramic nanoparticles. <i>Scientific Reports</i> , 2017, 7, 7314.	1.6	13
103	Block Copolymer Membranes from Polystyrene- <i>b</i> -poly(solketal methacrylate) (PS- <i>b</i> -PSMA) and Amphiphilic Polystyrene- <i>b</i> -poly(glyceryl methacrylate) (PS- <i>b</i> -PGMA). <i>Polymers</i> , 2017, 9, 216.	2.0	22
104	Surfactant-Free RAFT Emulsion Polymerization of Styrene Using Thermoresponsive macroRAFT Agents: Towards Smart Well-Defined Block Copolymers with High Molecular Weights. <i>Polymers</i> , 2017, 9, 668.	2.0	16
105	New post modification route for styrene butadiene copolymers leading to supramolecular hydrogen bonded networks - Synthesis and thermodynamic analysis of complexation. <i>Polymer</i> , 2017, 121, 304-311.	1.8	13
106	In Vitro Evaluation of Biocompatibility of Uncoated Thermally Reduced Graphene and Carbon Nanotube-Loaded PVDF Membranes with Adult Neural Stem Cell-Derived Neurons and Glia. <i>Frontiers in Bioengineering and Biotechnology</i> , 2016, 4, 94.	2.0	29
107	A Facile Method to Prepare Double-Layer Isoporous Hollow Fiber Membrane by In Situ Hydrogen Bond Formation in the Spinning Line. <i>Macromolecular Rapid Communications</i> , 2016, 37, 414-419.	2.0	18
108	Aqueous Solutions of Poly[2-(<i>N</i> -morpholino)ethyl methacrylate]: Learning about Macromolecular Aggregation Processes from a Peculiar Three-Step Thermoresponsive Behavior. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 735-747.	1.1	18

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109	Claisen thermally rearranged (CTR) polymers. <i>Science Advances</i> , 2016, 2, e1501859.	4.7	33
110	A thermodynamic study of CO ₂ sorption and thermal transition of PolyActive [®] under elevated pressure. <i>Polymer</i> , 2016, 93, 132-141.	1.8	19
111	Scalable application of thin film coating techniques for supported liquid membranes for gas separation made from ionic liquids. <i>Journal of Membrane Science</i> , 2016, 518, 178-191.	4.1	31
112	Synthesis and self-assembly of high molecular weight polystyrene-block-poly[2-(N-morpholino)ethyl methacrylate]: A story about microphase separation, amphiphilicity, and stimuli-responsivity. <i>Polymer</i> , 2016, 107, 357-367.	1.8	14
113	Formation of high thermally stable isoporous integral asymmetric block copolymer membranes. <i>European Polymer Journal</i> , 2016, 85, 72-81.	2.6	18
114	The Synthesis of Poly(ethylene glycol) (PEG) Containing Polymers via Step-Growth Click Coupling Reaction for CO ₂ Separation. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 672-682.	1.1	18
115	Chemical Modification, Thermal Characterization and Dielectric Spectroscopy of Polystyrene- <i>b</i> -Polyisoprene Diblock Copolymers. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 1293-1304.	1.1	7
116	Physical ageing and lifetime prediction of polymer membranes for gas separation processes. <i>Journal of Membrane Science</i> , 2016, 516, 33-46.	4.1	21
117	Controlling the shape of Janus nanostructures through supramolecular modification of ABC terpolymer bulk morphologies. <i>Polymer</i> , 2016, 107, 456-465.	1.8	31
118	Influence of block sequence and molecular weight on morphological, rheological and dielectric properties of weakly and strongly segregated styrene-isoprene triblock copolymers. <i>Polymer</i> , 2016, 104, 279-295.	1.8	23
119	Organically linked iron oxide nanoparticle supercrystals with exceptional isotropic mechanical properties. <i>Nature Materials</i> , 2016, 15, 522-528.	13.3	140
120	Viscoelastic and dielectric properties of composites of poly(vinyl butyral) and alumina particles with a high filling degree. <i>Polymer</i> , 2016, 82, 337-348.	1.8	21
121	Extensional flow behavior of aqueous guar gum derivative solutions by capillary breakup elongational rheometry (CaBER). <i>Carbohydrate Polymers</i> , 2016, 136, 834-840.	5.1	26
122	Isoporous Block Copolymer Membranes. <i>Macromolecular Rapid Communications</i> , 2015, 36, 10-22.	2.0	202
123	Analysis of stability and viscoelastic properties of melts of polystyrene-block-polyisoprene diblock copolymers in oscillatory shear and creep-recovery experiments. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	1
124	Solvent-Free Preparation of Electrically Conductive Polyetherimide Membranes Using Carbon Nanotubes. <i>Macromolecular Materials and Engineering</i> , 2015, 300, 1246-1256.	1.7	1
125	Back Cover: <i>Macromol. Mater. Eng.</i> 12/2015. <i>Macromolecular Materials and Engineering</i> , 2015, 300, 1304-1304.	1.7	1
126	Evaporation-Induced Block Copolymer Self-Assembly into Membranes Studied by <i>in Situ</i> Synchrotron SAXS. <i>Macromolecules</i> , 2015, 48, 1524-1530.	2.2	47

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127	Tailored Pore Sizes in Integral Asymmetric Membranes Formed by Blends of Block Copolymers. <i>Advanced Materials</i> , 2015, 27, 352-355.	11.1	94
128	Free Volume and Gas Permeation in Anthracene Maleimide-Based Polymers of Intrinsic Microporosity. <i>Membranes</i> , 2015, 5, 214-227.	1.4	18
129	Performance study of isoporous membranes with tailored pore sizes. <i>Journal of Membrane Science</i> , 2015, 495, 334-340.	4.1	49
130	Ionic liquids supported by isoporous membranes for CO ₂ /N ₂ gas separation applications. <i>Journal of Membrane Science</i> , 2015, 494, 224-233.	4.1	55
131	Thermal properties, rheology and foams of polystyrene-block-poly(4-vinylpyridine) diblock copolymers. <i>Polymer</i> , 2015, 70, 88-99.	1.8	4
132	Synthesis of poly(thiophene-alt-pyrrole) from a difunctionalized thienylpyrrole by Kumada polycondensation. <i>Tetrahedron</i> , 2015, 71, 5399-5406.	1.0	7
133	Thin Isoporous Block Copolymer Membranes: It Is All about the Process. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 21130-21137.	4.0	54
134	Influence of Poly(ethylene glycol) Segment Length on CO ₂ Permeation and Stability of PolyActive Membranes and Their Nanocomposites with PEG POSS. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 12289-12298.	4.0	58
135	Correlation of gas permeation and free volume in new and used high free volume thin film composite membranes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 213-217.	2.4	25
136	Functionalization of POSS nanoparticles and fabrication of block copolymer nanocomposite membranes for CO ₂ separation. <i>Reactive and Functional Polymers</i> , 2015, 86, 125-133.	2.0	33
137	Preparation of Freestanding Conjugated Microporous Polymer Nanomembranes for Gas Separation. <i>Chemistry of Materials</i> , 2014, 26, 7189-7193.	3.2	117
138	Influence of temperature upon properties of tailor-made PEBAX [®] MH 1657 nanocomposite membranes for post-combustion CO ₂ capture. <i>Journal of Membrane Science</i> , 2014, 469, 344-354.	4.1	37
139	Investigation of Historical Hard Rubber Ornaments of Charles Goodyear. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 245-254.	1.1	13
140	Self-organized isoporous membranes with tailored pore sizes. <i>Journal of Membrane Science</i> , 2014, 451, 266-275.	4.1	141
141	Morphology and elasticity of polystyrene-block-polyisoprene diblock copolymers in the melt. <i>Korea Australia Rheology Journal</i> , 2014, 26, 263-275.	0.7	12
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