

Quan Chen

List of Publications by Year in descending order

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111
papers

3,802
citations

109264

35
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143943

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113
all docs

113
docs citations

113
times ranked

3336
citing authors

#	ARTICLE	IF	CITATIONS
1	Reinforcing DNA Supramolecular Hydrogel with Polymeric Multiple-Unit Linker. <i>CCS Chemistry</i> , 2023, 5, 434-444.	4.6	15
2	Nonlinear rheological behavior of telechelic ionomers with the distribution of ionic stickers at the ends. <i>Journal of Rheology</i> , 2022, 66, 1-16.	1.3	7
3	Advances and New Opportunities in the Rheology of Physically and Chemically Reversible Polymers. <i>Macromolecules</i> , 2022, 55, 697-714.	2.2	54
4	Nonlinear Extensional Rheology of Poly(<i>n</i> -alkyl methacrylate) Melts with a Fixed Number of Kuhn Segments and Entanglements per Chain. <i>ACS Macro Letters</i> , 2022, 11, 484-490.	2.3	7
5	Lysozyme amyloid fibril templated phenolic-iron hydrogels cross-linked with genipin. <i>Food Structure</i> , 2022, 32, 100271.	2.3	0
6	Higher affinity of polyphenol to zein than to amyloid fibrils leading to nanoparticle-embed network wall scaffold to construct amyloid fibril-zein-EGCG hydrogels for coating of beef. <i>Food Research International</i> , 2022, 156, 111187.	2.9	14
7	Shear-induced Precursors of Fibrillar Crystals of Poly(butene-1): A Rheological Study. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2022, 40, 618-623.	2.0	2
8	Multiple gateway placement in large-scale constellation networks with inter-satellite links. <i>International Journal of Satellite Communications and Networking</i> , 2021, 39, 47-64.	1.2	18
9	Rheological properties of sulfonated polystyrene ionomers at high-ion contents. <i>Rheologica Acta</i> , 2021, 60, 241-249.	1.1	10
10	Analysis of Inter-Satellite Link Paths for LEO Mega-Constellation Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2021, 70, 2743-2755.	3.9	83
11	Brittle-to-Ductile Transition of Sulfonated Polystyrene Ionomers. <i>ACS Macro Letters</i> , 2021, 10, 503-509.	2.3	16
12	Thermodynamics and Reaction Kinetics of Symmetric Vitrimers Based on Dioxaborolane Metathesis. <i>Macromolecules</i> , 2021, 54, 6799-6809.	2.2	23
13	Crosslinking ABA-type elastomers with polyoxometalate: A convenient molecular design of double network. <i>Polymer</i> , 2021, 228, 123932.	1.8	3
14	Flow-induced crystalline precursors in entangled Poly(vinyl alcohol) aqueous solutions. <i>Polymer</i> , 2021, 229, 123960.	1.8	7
15	How to Choose a Secondary Interaction to Improve Stretchability of Associative Polymers?. <i>Macromolecules</i> , 2021, 54, 8112-8121.	2.2	15
16	Conformation and persistence length of chitosan in aqueous solutions of different ionic strengths via asymmetric flow field-flow fractionation. <i>Carbohydrate Polymers</i> , 2021, 271, 118402.	5.1	11
17	Dynamic metallopolymer networks: a protocol to quantify Pt(II) and Pt(II) stacking interactions. <i>Journal of Materials Chemistry C</i> , 2021, 9, 15422-15427.	2.7	4
18	Nonlinear Rheology of Telechelic Ionomers Based on Sodium Sulfonate and Carboxylate. <i>Macromolecules</i> , 2021, 54, 9724-9738.	2.2	14

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19	Horizontal extensional rheometry (HER) for low viscosity polymer melts. <i>Journal of Rheology</i> , 2020, 64, 177-190.	1.3	10
20	Topology Virtualization and Dynamics Shielding Method for LEO Satellite Networks. <i>IEEE Communications Letters</i> , 2020, 24, 433-437.	2.5	23
21	Chain microstructure of two highly impact polypropylene resins with good balance between stiffness and toughness. <i>Polymer</i> , 2020, 188, 122146.	1.8	23
22	Molecular Weight Dependence of Associative Behavior in Polyimide/DMF Solutions. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2020, 38, 629-637.	2.0	9
23	An Analytic Method of Wavelength Requirements in Dynamic Optical Satellite Networks. <i>IEEE Communications Letters</i> , 2020, 24, 2569-2573.	2.5	8
24	Rheological Properties of ABA-Type Copolymers Physically End-Cross-Linked by Polyoxometalate. <i>Macromolecules</i> , 2020, 53, 10927-10941.	2.2	11
25	Tough and Multi-Recyclable Cross-Linked Supramolecular Polyureas via Incorporating Noncovalent Bonds into Main-Chains. <i>Advanced Materials</i> , 2020, 32, e2000096.	11.1	174
26	Solution properties and electrospinning of polyacrylamide and β -polylysine complexes. <i>Polymer</i> , 2020, 204, 122806.	1.8	9
27	Structure and phase behavior of poly(acrylic acid)-ferric ion complex aqueous solutions. <i>Soft Matter</i> , 2020, 16, 10750-10758.	1.2	2
28	Conformation of dilute poly(vinyl alcohol)-borax complex by asymmetric flow field-flow fractionation. <i>Journal of Chromatography A</i> , 2020, 1624, 461260.	1.8	3
29	Formation of fibrillar crystals strongly accelerates the form II to I transformation of polybutene-1. <i>Soft Matter</i> , 2020, 16, 4955-4960.	1.2	15
30	Extremely Tough, Puncture-Resistant, Transparent, and Photoluminescent Polyurethane Elastomers for Crack Self-Diagnose and Healing Tracking. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 30847-30855.	4.0	92
31	Using Coupling Motion of Connecting Ions in Designing Telechelic Ionomers. <i>ACS Macro Letters</i> , 2020, 9, 917-923.	2.3	10
32	Thermorheological complexity of poly(vinyl alcohol)/borax aqueous solutions. <i>Journal of Rheology</i> , 2020, 64, 991-1002.	1.3	6
33	Relationship between Reaction Kinetics and Chain Dynamics of Vitrimers Based on Dioxaborolane Metathesis. <i>Macromolecules</i> , 2020, 53, 1180-1190.	2.2	51
34	Amyloid-Polyphenol Hybrid Nanofilaments Mitigate Colitis and Regulate Gut Microbial Dysbiosis. <i>ACS Nano</i> , 2020, 14, 2760-2776.	7.3	94
35	Shear-Induced Oriented Crystallization for Isotactic Poly(1-butene) and Its Copolymer with Ethylene. <i>Macromolecules</i> , 2020, 53, 3071-3081.	2.2	10
36	Design of a Low Earth Orbit Satellite Constellation Network for Air Traffic Surveillance. <i>Journal of Navigation</i> , 2020, 73, 1263-1283.	1.0	5

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37	A facile approach to fabricate composite anion exchange membranes with enhanced ionic conductivity and dimensional stability for electrodialysis. <i>Separation and Purification Technology</i> , 2019, 227, 115725.	3.9	15
38	Reversible Gelation of Entangled Ionomers. <i>Macromolecules</i> , 2019, 52, 8771-8780.	2.2	19
39	Intelligent Quality of Service Routing in Software-Defined Satellite Networking. <i>IEEE Access</i> , 2019, 7, 155281-155298.	2.6	3
40	High internal phase emulsions stabilized with amyloid fibrils and their polysaccharide complexes for encapsulation and protection of β -carotene. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 183, 110459.	2.5	48
41	Effects of alkyl group size on the structure and dynamics of poly(<i>n</i> -alkyl methacrylate)-based ionomers. <i>Journal of Rheology</i> , 2019, 63, 977-990.	1.3	14
42	Associative behavior of polyimide/cyclohexanone solutions. <i>RSC Advances</i> , 2019, 9, 27455-27463.	1.7	5
43	Dynamic topology control in optical satellite networks based on algebraic connectivity. <i>Acta Astronautica</i> , 2019, 165, 287-297.	1.7	9
44	High loading contents, distribution and stability of β -carotene encapsulated in high internal phase emulsions. <i>Food Hydrocolloids</i> , 2019, 96, 300-309.	5.6	60
45	A distributed congestion avoidance routing algorithm in mega-constellation network with multi-gateway. <i>Acta Astronautica</i> , 2019, 162, 376-387.	1.7	31
46	Multiscale Self-Assembly of Mobile-Ligand Molecular Nanoparticles for Hierarchical Nanocomposites. <i>ACS Nano</i> , 2019, 13, 7135-7145.	7.3	37
47	Ultrascale Nanoparticles Diluted Chain Entanglement in Polymer Nanocomposites. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2019, 37, 797-805.	2.0	17
48	Linear viscoelasticity of poly(acrylic acid) complexed with ferric ion. <i>Rheologica Acta</i> , 2019, 58, 513-523.	1.1	12
49	Dynamics of Telechelic Ionomers with Distribution of Number of Ionic Stickers at Chain Ends. <i>Macromolecules</i> , 2019, 52, 2265-2276.	2.2	31
50	Dynamics in Miscible Polymer Blends and Associative Polymers. <i>Nihon Reoroji Gakkaishi</i> , 2019, 47, 197-205.	0.2	3
51	Comb-shaped diblock copolystyrene for anion exchange membranes. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47370.	1.3	12
52	Synthesis of a Macroporous Conjugated Polymer Framework: Iron Doping for Highly Stable, Highly Efficient Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 3087-3097.	4.0	52
53	Entanglement relaxation of poly(1-butene) and its copolymer with ethylene detected in conventional shear rheometer and quartz resonator. <i>Journal of Rheology</i> , 2019, 63, 167-177.	1.3	17
54	Adsorption of poly(vinyl alcohol) on gel permeation chromatography columns depends on the degree of hydrolysis. <i>Journal of Chromatography A</i> , 2019, 1585, 138-143.	1.8	12

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55	Novel anion exchange membranes based on quaternized diblock copolystyrene containing a fluorinated hydrophobic block. <i>Journal of Membrane Science</i> , 2018, 554, 264-273.	4.1	67
56	Associating behavior of one polyimide with high molecular weight in solution through a relatively weak interaction. <i>Polymer</i> , 2018, 141, 166-174.	1.8	9
57	Stability of flow-induced precursors in poly-1-butene and copolymer of 1-butene and ethylene. <i>Journal of Rheology</i> , 2018, 62, 725-737.	1.3	14
58	Determining electrospun morphology from the properties of protein-polymer solutions. <i>Soft Matter</i> , 2018, 14, 3455-3462.	1.2	18
59	Dynamics of associative polymers. <i>Soft Matter</i> , 2018, 14, 2961-2977.	1.2	184
60	Random binary brush architecture enhances both ionic conductivity and mechanical strength at room temperature. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2018, 36, 78-84.	2.0	8
61	Form II to I transformation of polybutene-1 and copolymer of butene-1 and ethylene: A role of amorphous phase. <i>Polymer</i> , 2018, 149, 146-153.	1.8	20
62	The role of electrostatic repulsion in the gelation of poly(vinyl alcohol)/borax aqueous solutions. <i>Soft Matter</i> , 2018, 14, 6767-6773.	1.2	19
63	Linear Viscoelasticity and Swelling of Polyelectrolyte Complex Coacervates. <i>Macromolecules</i> , 2018, 51, 5547-5555.	2.2	62
64	Directed Self-Assembly of High χ Poly(styrene- <i>b</i> -(lactic acid- <i>alt</i> -glycolic acid)) Block Copolymers on Chemical Patterns via Thermal Annealing. <i>ACS Macro Letters</i> , 2018, 7, 751-756.	2.3	22
65	Molecular Design of Highly Stretchable Ionomers. <i>Macromolecules</i> , 2018, 51, 4735-4746.	2.2	38
66	Morphological Evolution of Ionomer/Plasticizer Mixtures during a Transition from Ionomer to Polyelectrolyte. <i>Macromolecules</i> , 2017, 50, 963-971.	2.2	25
67	Facile preparation of biocompatible polymer microgels with tunable properties and unique functions to solely stabilize high internal phase emulsions. <i>Chemical Engineering Journal</i> , 2017, 315, 500-508.	6.6	36
68	Synthesis and properties of quaternized polyolefins with bulky poly(4-phenyl-1-butene) moieties as anion exchange membranes. <i>Journal of Membrane Science</i> , 2017, 541, 244-252.	4.1	43
69	Inorganic-Ion-Induced Formation of Bicontinuous Block Copolymer Nanocomposites with Enhanced Conductivity and Modulus. <i>Angewandte Chemie</i> , 2017, 129, 9141-9145.	1.6	18
70	Inorganic-Ion-Induced Formation of Bicontinuous Block Copolymer Nanocomposites with Enhanced Conductivity and Modulus. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9013-9017.	7.2	89
71	Synthesis of midblock-quaternized triblock copolystyrenes as highly conductive and alkaline-stable anion-exchange membranes. <i>Polymer Chemistry</i> , 2017, 8, 2074-2086.	1.9	51
72	Rheological Behavior of Partially Neutralized Oligomeric Sulfonated Polystyrene Ionomers. <i>Macromolecules</i> , 2017, 50, 424-431.	2.2	17

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73	Association energy in strongly associative polymers. <i>Journal of Rheology</i> , 2017, 61, 1199-1207.	1.3	76
74	Nonlinear shear and uniaxial extensional rheology of polyether-ester-sulfonate copolymer ionomer melts. <i>Journal of Rheology</i> , 2017, 61, 1279-1289.	1.3	46
75	Diffusive Flux as a New Metric for Ion-Conducting Soft Materials. <i>ACS Energy Letters</i> , 2016, 1, 1179-1183.	8.8	15
76	The diffusion and conduction of lithium in poly(ethylene oxide)-based sulfonate ionomers. <i>Journal of Chemical Physics</i> , 2016, 145, 114903.	1.2	17
77	Viscoelasticity of entangled random polystyrene ionomers. <i>Journal of Rheology</i> , 2016, 60, 1031-1040.	1.3	70
78	Reversible Gelation Model Predictions of the Linear Viscoelasticity of Oligomeric Sulfonated Polystyrene Ionomer Blends. <i>Macromolecules</i> , 2016, 49, 3936-3947.	2.2	35
79	Facilitating Anion Transport in Polyolefin-Based Anion Exchange Membranes via Bulky Side Chains. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23321-23330.	4.0	91
80	Brittle fracture in associative polymers: the case of ionomer melts. <i>Soft Matter</i> , 2016, 12, 7606-7612.	1.2	34
81	Linear Viscoelastic and Dielectric Properties of Strongly Hydrogen-Bonded Polymers near the Sol-Gel Transition. <i>Macromolecules</i> , 2016, 49, 9192-9202.	2.2	41
82	Nonlinear Rheology of Random Sulfonated Polystyrene Ionomers: The Role of the Sol-Gel Transition. <i>Macromolecules</i> , 2016, 49, 9203-9214.	2.2	34
83	Electrostatic tuning of block copolymer morphologies by inorganic macroions. <i>Polymer</i> , 2016, 106, 53-61.	1.8	12
84	Photoluminescence properties of Tb ³⁺ -doped stalk-like Al ₂ O ₃ . <i>International Journal of Materials Research</i> , 2016, 107, 280-282.	0.1	2
85	Segmental Dynamics of Ethylene Oxide-Containing Polymers with Diverse Backbone Chemistries. <i>Macromolecules</i> , 2016, 49, 1903-1910.	2.2	13
86	Controlled functionalization of poly(4-methyl-1-pentene) films for high energy storage applications. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4797-4807.	5.2	58
87	Segmental Dynamics and Dielectric Constant of Polysiloxane Polar Copolymers as Plasticizers for Polymer Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3215-3225.	4.0	73
88	Constitutive modeling and experimental validation of the thermo-mechanical response of a shape memory composite containing shape memory alloy fibers and shape memory polymer matrix. <i>Journal of Intelligent Material Systems and Structures</i> , 2016, 27, 625-641.	1.4	24
89	Viscoelasticity of Reversible Gelation for Ionomers. <i>Macromolecules</i> , 2015, 48, 1221-1230.	2.2	123
90	Mechanical Reinforcement of Polymer Nanocomposites from Percolation of a Nanoparticle Network. <i>ACS Macro Letters</i> , 2015, 4, 398-402.	2.3	189

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91	Plasticizing Li single-ion conductors with low-volatility siloxane copolymers and oligomers containing ethylene oxide and cyclic carbonates. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21269-21276.	5.2	24
92	Linear Viscoelasticity and Dielectric Spectroscopy of Ionomer/Plasticizer Mixtures: A Transition from Ionomer to Polyelectrolyte. <i>Macromolecules</i> , 2015, 48, 8240-8252.	2.2	49
93	High Ion Content Siloxane Phosphonium Ionomers with Very Low T_g . <i>Macromolecules</i> , 2014, 47, 4428-4437.	2.2	48
94	Segmental Dynamics of Polymer Melts with Spherical Nanoparticles. <i>ACS Macro Letters</i> , 2014, 3, 773-777.	2.3	128
95	Linear viscoelasticity of sulfonated styrene oligomers near the sol-gel transition. <i>Korea Australia Rheology Journal</i> , 2014, 26, 257-261.	0.7	19
96	Linear Viscoelasticity and Fourier Transform Infrared Spectroscopy of Polyether- <i>ester</i> -Sulfonate Copolymer Ionomers. <i>Macromolecules</i> , 2014, 47, 3635-3644.	2.2	47
97	Linear viscoelasticity of unentangled corona blocks and star arms. <i>Rheologica Acta</i> , 2014, 53, 701-714.	1.1	3
98	Ionomer dynamics and the sticky Rouse model. <i>Journal of Rheology</i> , 2013, 57, 1441-1462.	1.3	197
99	Linear Viscoelastic and Dielectric Properties of Phosphonium Siloxane Ionomers. <i>ACS Macro Letters</i> , 2013, 2, 970-974.	2.3	63
100	Effect of Various Dissolution Systems on the Molecular Weight of Regenerated Silk Fibroin. <i>Biomacromolecules</i> , 2013, 14, 285-289.	2.6	120
101	Dynamics in miscible blends of polyisoprene and poly(<i>p</i> -tert-butyl styrene): thermo-rheological behavior of components. <i>Polymer Journal</i> , 2012, 44, 102-114.	1.3	6
102	Dielectric behavior of Styrene- <i>isoprene</i> (SI) Diblock and SIIS Triblock Copolymers: Global Dynamics of I Blocks in Spherical and Cylindrical Domains Embedded in Glassy S Matrix. <i>Macromolecules</i> , 2012, 45, 7050-7060.	2.2	12
103	Dielectric Behavior of Guest <i>cis</i> -Polyisoprene Confined in Spherical Microdomain of Triblock Copolymer. <i>Macromolecules</i> , 2012, 45, 2809-2819.	2.2	14
104	Conformational evolution under steady shear flow: a comparison between cyclic and linear block copolymers. <i>Rheologica Acta</i> , 2012, 51, 343-355.	1.1	3
105	Creep dynamics of non-entangled miscible polymer blends and block copolymers. <i>Rheologica Acta</i> , 2012, 51, 569-577.	1.1	2
106	Entanglement Dynamics in Miscible Polyisoprene/Poly(<i>p</i> - <i>tert</i> -butylstyrene) Blends. <i>Macromolecules</i> , 2011, 44, 1570-1584.	2.2	27
107	Dynamics of Polyisoprene-Poly(<i>p</i> - <i>tert</i> -butylstyrene) Diblock Copolymer in Disordered State. <i>Macromolecules</i> , 2011, 44, 1585-1602.	2.2	13
108	Viscoelastic Mode Distribution of Moderately Entangled Linear Polymers. <i>Nihon Reoroji Gakkaishi</i> , 2011, 38, 187-193.	0.2	15

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109	Rheological properties of immiscible polymer blends under parallel superposition shear flow. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 431-440.	2.4	17
110	Transient stresses and morphology of immiscible polymer blends under varying shear flow. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 326, 175-183.	2.3	7
111	Component Dynamics in Polyisoprene/Poly(4- <i>tert</i> -butylstyrene) Miscible Blends. <i>Macromolecules</i> , 2008, 41, 8694-8711.	2.2	38