Ruke Bai

List of Publications by Year
in descending order

73	2,197	186265	243625
papers	citations	28 h-index	44 g-index

74	74	74	2923
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A novel poly(2,6-dimethyl-1,4-phenylene oxide) with trifunctional ammonium moieties for alkaline anion exchange membranes. Chemical Communications, 2014, 50, 2791.	4.1	123
2	Novel Reversible Mechanochromic Elastomer with High Sensitivity: Bond Scission and Bending-Induced Multicolor Switching. ACS Applied Materials & Interfaces, 2017, 9, 11874-11881.	8.0	119
3	A facile strategy for the synthesis of guanidinium-functionalized polymer as alkaline anion exchange membrane with improved alkaline stability. Journal of Membrane Science, 2014, 453, 52-60.	8.2	117
4	Real-Time and in Situ Investigation of â€œLivingâ€ Controlled Photopolymerization in the Presence of a Trithiocarbonate. Macromolecules, 2013, 46, 2576-2582.	4.8	110
5	An efficient conjugated polymer sensor based on the aggregation-induced fluorescence quenching mechanism for the specific detection of palladium and platinum ions. Journal of Materials Chemistry, 2012, 22, 3555.	6.7	80
6	Synthesis and Luminescence of POSS-Containing Perylene Bisimide-Bridged Amphiphilic Polymers. Macromolecules, 2012, 45, 3086-3093.	4.8	80
7	A facile strategy for the fabrication of highly stable superhydrophobic cotton fabric using amphiphilic fluorinated triblock azide copolymers. Polymer, 2010, 51, 1940-1946.	3.8	71
8	A Facile Approach for the Fabrication of Highly Stable Superhydrophobic Cotton Fabric with Multi-Walled Carbon Nanotubesâ^'Azide Polymer Composites. Langmuir, 2010, 26, 7529-7534.	3.5	71
9	Hydroxide-conducting polymer electrolyte membranes from aromatic ABA triblock copolymers. Polymer Chemistry, 2014, 5, 2208.	3.9	62
10	A facile and highly efficient strategy for esterification of poly(meth)acrylic acid with halogenated compounds at room temperature promoted by 1,1,3,3-tetramethylguanidine. Polymer Chemistry, 2013, 4, 2891.	3.9	52
11	A Very Useful Redox Initiator for Aqueous RAFT Polymerization of Nâ€isopropylacrylamide and Acrylamide at Room Temperature. Macromolecular Rapid Communications, 2008, 29, 562-566.	3.9	50
12	A Facile Strategy for the Preparation of Azide Polymers via Room Temperature RAFT Polymerization by Redox Initiation. Macromolecular Rapid Communications, 2009, 30, 442-447.	3.9	50
13	Preparation and characterization of composite membranes with ionic liquid polymer-functionalized multiwalled carbon nanotubes for alkaline fuel cells. RSC Advances, 2013, 3, 13477.	3.6	50
14	2,6-Substituted pyridine derivative-containing conjugated polymers: synthesis, photoluminescence and ion-sensing properties. Polymer Chemistry, 2011, 2, 1699.	3.9	49
15	Effect of multiwalled carbon nanotube-grafted polymer brushes on the mechanical and swelling properties of polyacrylamide composite hydrogels. Polymer, 2016, 85, 67-76.	3.8	46
16	A highly sensitive and selective ratiometric Cd2+ fluorescent sensor for distinguishing Cd2+ from Zn2+ based on both fluorescence intensity and emission shift. Analytical Methods, 2011, 3, 1274.	2.7	45
17	A new strategy for highly selective fluorescent sensing of Fâ^' and Zn2+ with dual output modes. Journal of Materials Chemistry, 2012, 22, 5291.	6.7	41
18	Dithiocarbamate mediated controlled/living free radical polymerization of methyl acrylate under60Co ?-ray irradiation: Conjugation effect ofN-group. Journal of Polymer Science Part A, 2004, 42, 5670-5677.	2.3	40

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19	Pyrene boronic acid cyclic ester: a new fast self-recovering mechanoluminescent material at room temperature. Chemical Communications, 2016, 52, 9679-9682.	4.1	39
20	Investigation on RAFT Polymerization of a Yâ€Shaped Amphiphilic Fluorinated Monomer and Antiâ€Fog and Oilâ€Repellent Properties of the Polymers. Macromolecular Rapid Communications, 2010, 31, 1816-1821.	3.9	38
21	Conjugated coordination polymers based on 8-hydroxyquinoline ligands: impact of polyhedral oligomeric silsesquioxanes on solubility and luminescence. Journal of Materials Chemistry, 2011, 21, 10859.	6.7	38
22	Preparation and Characterization of Thermoregulated Rigid Polyurethane Foams Containing Nanoencapsulated Phase Change Materials. Industrial & Engineering Chemistry Research, 2016, 55, 2721-2730.	3.7	38
23	A facile strategy for preparation of single-chain polymeric nanoparticles by intramolecular photo-crosslinking of azide polymers. Polymer, 2014, 55, 3696-3702.	3.8	35
24	Aggregation-enhanced FRET-active conjugated polymer nanoparticles for picric acid sensing in aqueous solution. Journal of Materials Chemistry C, 2018, 6, 266-270.	5.5	35
25	Self-exfoliation of 2D covalent organic frameworks: morphology transformation induced by solvent polarity. RSC Advances, 2018, 8, 3803-3808.	3.6	34
26	Xanthate-Mediated Controlled/Living Free-Radical Polymerization under60CoÎ³-Ray Irradiation: Structure Effect ofO-Group. Macromolecular Chemistry and Physics, 2004, 205, 1793-1799.	2.2	29
27	Facile room temperature RAFT polymerization via redox initiation. Journal of Polymer Science Part A, 2008, 46, 2575-2580.	2.3	29
28	Dithioester (ZC(S)SR) mediated â€˜controlled/livingâ€™ free-radical polymerization of methyl acrylate under 60Co Î³-ray irradiation. Structure effect of Z-group. Polymer, 2005, 46, 12696-12702.	3.8	28
29	From 1D Polymers to 2D Polymers: Preparation of Free-Standing Single-Monomer-Thick Two-Dimensional Conjugated Polymers in Water. ACS Nano, 2017, 11, 7223-7229.	14.6	28
30	Controlled/Living Free-Radical Polymerization in the Presence of Benzyl 9H-Carbazole-9-Carbodithioate under60CoÎ³-Ray Irradiation. Macromolecular Chemistry and Physics, 2004, 205, 1125-1130.	2.2	27
31	A Facile Approach for Preparation of Phenylphosphinic Acid-Functionalized PSt Microspheres by Emulsion Polymerization Using Amphiphilic Macro-RAFT Agent as Emulsifier. Macromolecules, 2009, 42, 8697-8701.	4.8	27
32	A novel poly(2,6-dimethyl-1,4-phenylene oxide) with pendant imidazolium groups for high-temperature proton exchange membrane. Polymer Chemistry, 2014, 5, 2425.	3.9	27
33	Roomâ€temperature RAFT copolymerization of 2â€chloroallyl azide with methyl acrylate and versatile applications of the azide copolymers. Journal of Polymer Science Part A, 2010, 48, 1348-1356.	2.3	24
34	Preparation of Hydrophilic Encapsulated Carbon Nanotubes with Polymer Brushes and Its Application in Composite Hydrogels. Langmuir, 2017, 33, 6092-6101.	3.5	24
35	Preparation of Covalent Pseudo-Two-Dimensional Polymers in Water by Free Radical Polymerization. Macromolecules, 2017, 50, 4292-4299.	4.8	22
36	Living/controlled free radical copolymerization of chlorotrifluoroethene and butyl vinyl ether under 60Co Î³-ray irradiation in the presence of S-benzyl O-ethyl dithiocarbonate. Chemical Communications, 2011, 47, 7839.	4.1	21

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37	Detection of trace levels of Pd2+ in pure water using a fluorescent probe assisted by surfactants. Sensors and Actuators B: Chemical, 2016, 237, 899-904.	7.8	21
38	Controlled/living free-radical copolymerization of 4-(azidocarbonyl) phenyl methacrylate with methyl acrylate under60Co Î³-ray irradiation. Journal of Polymer Science Part A, 2007, 45, 2609-2616.	2.3	20
39	Facile and Highly Efficient Strategy for Synthesis of Functional Polyesters via Tetramethyl Guanidine Promoted Polyesterification at Room Temperature. ACS Macro Letters, 2014, 3, 1161-1164.	4.8	20
40	A strategy for synthesis of ionâ€bonded amphiphilic miktoarm star copolymers via supramolecular macroâ€RAFT agent. Journal of Polymer Science Part A, 2008, 46, 5805-5815.	2.3	19
41	Synthesis and characterization of starch piperinic ester and its selfâ€assembly of nanospheres. Journal of Applied Polymer Science, 2008, 108, 523-528.	2.6	19
42	An amphiphilic conjugated polymer as an aggregation-based multifunctional sensing platform with multicolor fluorescence response. Polymer Chemistry, 2014, 5, 792-798.	3.9	19
43	A facile one-pot strategy for preparation of small polymer nanoparticles by self-crosslinking of amphiphilic block copolymers containing acyl azide groups in aqueous media. Soft Matter, 2011, 7, 3956.	2.7	18
44	A Strategy for Synthesis of Ionâ€Bonded Supramolecular Star Polymers by Reversible Additionâ€Fragmentation Chain Transfer (RAFT) Polymerization. Macromolecular Rapid Communications, 2008, 29, 1477-1483.	3.9	16
45	A facile one pot strategy for the synthesis of well-defined polyacrylates from acrylic acid via RAFT polymerization. Chemical Communications, 2014, 50, 3331-3334.	4.1	16
46	Synthesis, Characterization and Selfâ€Assembly of Novel Amphiphilic Block Copolymers with a Polyhedral Oligomeric Silsesquioxanes Moiety Attached at the Junction of the Two Blocks. Macromolecular Rapid Communications, 2009, 30, 1015-1020.	3.9	15
47	Controlled free-radical polymerization of methyl acrylate in the presence of a cyclic trithiocarbonate under Î³-ray irradiation at low temperature. European Polymer Journal, 2007, 43, 847-854.	5.4	13
48	Low-temperature controlled free-radical polymerization of vinyl monomers in the presence of a novel cyclic dixanthate under Î³-ray irradiation. Journal of Polymer Science Part A, 2007, 45, 2847-2854.	2.3	13
49	Synthesis and characterization of a novel two-component organogelator based on ion-bonded discotic complex. Journal of Molecular Liquids, 2008, 142, 118-123.	4.9	13
50	Xanthate-mediated living/controlled radical copolymerization of hexafluoropropylene and butyl vinyl ether under 60Co Î³-ray irradiation and preparation of fluorinated polymers end-capped with a fluoroalkyl sulfonic acid group. Polymer Chemistry, 2013, 4, 1760.	3.9	13
51	Photoinduced Reversible Morphological Transformation of Azobenzeneâ€Containing Pseudoâ€2D Polymers. Macromolecular Rapid Communications, 2018, 39, e1700880.	3.9	13
52	Study on controlled/living free-radical polymerization of methyl acrylate in the presence of benzyl 9H-carbazole-9-carbodithioate under thermal condition. European Polymer Journal, 2005, 41, 1674-1680.	5.4	12
53	Synthesis, characterization and self-assembly of ion-bonded amphiphilic A2B miktoarm star copolymers containing an azobenzene unit at the core. European Polymer Journal, 2010, 46, 1417-1424.	5.4	11
54	Synthesis and properties of a well-defined copolymer of chlorotrifluoroethylene and N-vinylpyrrolidone by xanthate-mediated radical copolymerization under 60Co Î³-ray irradiation. Polymer Chemistry, 2014, 5, 6358-6364.	3.9	11

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55	Synthesis of Photodegradable Polystyrene with Trithiocarbonate as Linkages. Macromolecular Rapid Communications, 2015, 36, 1810-1815.	3.9	11
56	Controlled/living free-radical copolymerization of allyl glycidyl ether with methyl acrylate under 60Co Î³-ray irradiation. Polymer, 2006, 47, 6575-6580.	3.8	10
57	Synthesis and self-assembly of carbazole-based amphiphilic triblock copolymers with aggregation-induced emission enhancement. Reactive and Functional Polymers, 2014, 75, 75-80.	4.1	10
58	Effect of polystyreneâ€bâ€poly(ethylene oxide) on selfâ€assembly of polystyreneâ€bâ€poly(Nâ€isopropylacrylamide) in aqueous solution. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 1168-1174.	2.1	9
59	A highly stable and versatile heterobifunctional fluoroalkylation reagent for preparation of fluorinated organic compounds. Organic and Biomolecular Chemistry, 2016, 14, 4382-4386.	2.8	9
60	Synthesis, characterization, and selfâ€assembly of ionâ€bonded A 2 B rodâ€coil copolymer with oligo(para) Tj ETQq0 0 0 rgBT /Overloc	2.3	8
61	Synthesis and Selfâ€Assembly of Novel Amphiphilic Sixâ€Armed Star Copolymers TP[PDMAEMAâ€bâ€PSt]₆. Macromolecular Chemistry and Physics, 2009, 210, 478-485.	2.2	8
62	Rapid living free-radical polymerization of methyl acrylate under60CoÎ³-ray irradiation at room temperature. Polymer International, 2004, 53, 821-823.	3.1	7
63	Synthesis of amphiphilic rod-coil ABC triblock copolymers with oligo(para-phenyleneethynylene) as the middle rigid block. Polymer, 2005, 46, 7572-7577.	3.8	7
64	Cobalt-Mediated Radical Copolymerization of Chlorotrifluoroethylene and Vinyl Acetate. Polymers, 2019, 11, 101.	4.5	7
65	Synthesis, cationic polymerization and curing reaction with epoxy resin of 3,9-di(p-methoxybenzyl)-1,5,7,11-tetra-oxaspiro(5,5)undecane. Polymer International, 2000, 49, 74-80.	3.1	6
66	A Diheteroatom Fluoroalkylation Reagent for Preparation of S- and N-Containing Fluoroalkyl Compounds and Sulfonic Acid Polymer. Organic Letters, 2017, 19, 1418-1421.	4.6	5
67	A Facile Strategy for Preparation of Î±â€Heterobifunctional Polystyrenes with Wellâ€Defined Molecular Weight. Macromolecular Rapid Communications, 2009, 30, 1922-1927.	3.9	4
68	A Strategy for Fabrication of Columnar Supramolecular Polymers by Highly Directional Ï€â€Ï€ Stacking and Strong Multiple Ionic Bonds. Macromolecular Chemistry and Physics, 2011, 212, 1016-1021.	2.2	4
69	One-pot strategy for preparation of photo- and chemo-cleavable polystyrene containing o-nitrobenzyl ester moieties. Polymer Degradation and Stability, 2017, 142, 55-61.	5.8	4
70	Synthesis of Amphiphilic Supramolecular Miktoarm Star Copolymers by Molecular Recognition. Macromolecular Rapid Communications, 2009, 30, 104-108.	3.9	3
71	Synthesis and Characterization of High-Performance Polymers Based on Perfluoropolyalkyl Ethers Using an Environmentally Friendly Solvent. Langmuir, 2020, 36, 12513-12520.	3.5	2
72	Synthesis of mid-dicarboxy polystyrene by ATRP and formation of ionic-bonded supramolecules. Frontiers of Chemical Engineering in China, 2007, 1, 140-145.	0.6	1

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73	Living free-radical copolymerization of allyl glycidyl ether with methyl acrylate. Frontiers of Chemistry in China: Selected Publications From Chinese Universities, 2007, 2, 414-418.	0.4	1