

Ruke Bai

List of Publications by Year in descending order

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186265

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2923
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#	ARTICLE	IF	CITATIONS
1	Synthesis and Characterization of High-Performance Polymers Based on Perfluoropolyalkyl Ethers Using an Environmentally Friendly Solvent. <i>Langmuir</i> , 2020, 36, 12513-12520.	3.5	2
2	Cobalt-Mediated Radical Copolymerization of Chlorotrifluoroethylene and Vinyl Acetate. <i>Polymers</i> , 2019, 11, 101.	4.5	7
3	Self-exfoliation of 2D covalent organic frameworks: morphology transformation induced by solvent polarity. <i>RSC Advances</i> , 2018, 8, 3803-3808.	3.6	34
4	Photoinduced Reversible Morphological Transformation of Azobenzene-Containing Pseudo-2D Polymers. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1700880.	3.9	13
5	Aggregation-enhanced FRET-active conjugated polymer nanoparticles for picric acid sensing in aqueous solution. <i>Journal of Materials Chemistry C</i> , 2018, 6, 266-270.	5.5	35
6	A Diheteroatom Fluoroalkylation Reagent for Preparation of S- and N-Containing Fluoroalkyl Compounds and Sulfonic Acid Polymer. <i>Organic Letters</i> , 2017, 19, 1418-1421.	4.6	5
7	From 1D Polymers to 2D Polymers: Preparation of Free-Standing Single-Monomer-Thick Two-Dimensional Conjugated Polymers in Water. <i>ACS Nano</i> , 2017, 11, 7223-7229.	14.6	28
8	One-pot strategy for preparation of photo- and chemo-cleavable polystyrene containing o-nitrobenzyl ester moieties. <i>Polymer Degradation and Stability</i> , 2017, 142, 55-61.	5.8	4
9	Preparation of Hydrophilic Encapsulated Carbon Nanotubes with Polymer Brushes and Its Application in Composite Hydrogels. <i>Langmuir</i> , 2017, 33, 6092-6101.	3.5	24
10	Preparation of Covalent Pseudo-Two-Dimensional Polymers in Water by Free Radical Polymerization. <i>Macromolecules</i> , 2017, 50, 4292-4299.	4.8	22
11	Novel Reversible Mechanochromic Elastomer with High Sensitivity: Bond Scission and Bending-Induced Multicolor Switching. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11874-11881.	8.0	119
12	Pyrene boronic acid cyclic ester: a new fast self-recovering mechanoluminescent material at room temperature. <i>Chemical Communications</i> , 2016, 52, 9679-9682.	4.1	39
13	A highly stable and versatile heterobifunctional fluoroalkylation reagent for preparation of fluorinated organic compounds. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 4382-4386.	2.8	9
14	Detection of trace levels of Pd ²⁺ in pure water using a fluorescent probe assisted by surfactants. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 899-904.	7.8	21
15	Effect of multiwalled carbon nanotube-grafted polymer brushes on the mechanical and swelling properties of polyacrylamide composite hydrogels. <i>Polymer</i> , 2016, 85, 67-76.	3.8	46
16	Preparation and Characterization of Thermoregulated Rigid Polyurethane Foams Containing Nanoencapsulated Phase Change Materials. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 2721-2730.	3.7	38
17	Synthesis of Photodegradable Polystyrene with Trithiocarbonate as Linkages. <i>Macromolecular Rapid Communications</i> , 2015, 36, 1810-1815.	3.9	11
18	A facile strategy for the synthesis of guanidinium-functionalized polymer as alkaline anion exchange membrane with improved alkaline stability. <i>Journal of Membrane Science</i> , 2014, 453, 52-60.	8.2	117

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19	An amphiphilic conjugated polymer as an aggregation-based multifunctional sensing platform with multicolor fluorescence response. <i>Polymer Chemistry</i> , 2014, 5, 792-798.	3.9	19
20	A facile one pot strategy for the synthesis of well-defined polyacrylates from acrylic acid via RAFT polymerization. <i>Chemical Communications</i> , 2014, 50, 3331-3334.	4.1	16
21	Synthesis and properties of a well-defined copolymer of chlorotrifluoroethylene and N-vinylpyrrolidone by xanthate-mediated radical copolymerization under ^{60}Co γ -ray irradiation. <i>Polymer Chemistry</i> , 2014, 5, 6358-6364.	3.9	11
22	A novel poly(2,6-dimethyl-1,4-phenylene oxide) with trifunctional ammonium moieties for alkaline anion exchange membranes. <i>Chemical Communications</i> , 2014, 50, 2791.	4.1	123
23	Facile and Highly Efficient Strategy for Synthesis of Functional Polyesters via Tetramethyl Guanidine Promoted Polyesterification at Room Temperature. <i>ACS Macro Letters</i> , 2014, 3, 1161-1164.	4.8	20
24	Hydroxide-conducting polymer electrolyte membranes from aromatic ABA triblock copolymers. <i>Polymer Chemistry</i> , 2014, 5, 2208.	3.9	62
25	A novel poly(2,6-dimethyl-1,4-phenylene oxide) with pendant imidazolium groups for high-temperature proton exchange membrane. <i>Polymer Chemistry</i> , 2014, 5, 2425.	3.9	27
26	Synthesis and self-assembly of carbazole-based amphiphilic triblock copolymers with aggregation-induced emission enhancement. <i>Reactive and Functional Polymers</i> , 2014, 75, 75-80.	4.1	10
27	A facile strategy for preparation of single-chain polymeric nanoparticles by intramolecular photo-crosslinking of azide polymers. <i>Polymer</i> , 2014, 55, 3696-3702.	3.8	35
28	Preparation and characterization of composite membranes with ionic liquid polymer-functionalized multiwalled carbon nanotubes for alkaline fuel cells. <i>RSC Advances</i> , 2013, 3, 13477.	3.6	50
29	Xanthate-mediated living/controlled radical copolymerization of hexafluoropropylene and butyl vinyl ether under ^{60}Co γ -ray irradiation and preparation of fluorinated polymers end-capped with a fluoroalkyl sulfonic acid group. <i>Polymer Chemistry</i> , 2013, 4, 1760.	3.9	13
30	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. <i>Polymer Chemistry</i> , 2013, 4, 2891.	3.9	52
31	Real-Time and in Situ Investigation of α -Living/Controlled Photopolymerization in the Presence of a Trithiocarbonate. <i>Macromolecules</i> , 2013, 46, 2576-2582.	4.8	110
32	A new strategy for highly selective fluorescent sensing of F^{\ominus} and Zn^{2+} with dual output modes. <i>Journal of Materials Chemistry</i> , 2012, 22, 5291.	6.7	41
33	An efficient conjugated polymer sensor based on the aggregation-induced fluorescence quenching mechanism for the specific detection of palladium and platinum ions. <i>Journal of Materials Chemistry</i> , 2012, 22, 3555.	6.7	80
34	Synthesis and Luminescence of POSS-Containing Perylene Bisimide-Bridged Amphiphilic Polymers. <i>Macromolecules</i> , 2012, 45, 3086-3093.	4.8	80
35	A highly sensitive and selective ratiometric Cd^{2+} fluorescent sensor for distinguishing Cd^{2+} from Zn^{2+} based on both fluorescence intensity and emission shift. <i>Analytical Methods</i> , 2011, 3, 1274.	2.7	45
36	Conjugated coordination polymers based on 8-hydroxyquinoline ligands: impact of polyhedral oligomeric silsesquioxanes on solubility and luminescence. <i>Journal of Materials Chemistry</i> , 2011, 21, 10859.	6.7	38

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37	2,6-Substituted pyridine derivative-containing conjugated polymers: synthesis, photoluminescence and ion-sensing properties. <i>Polymer Chemistry</i> , 2011, 2, 1699.	3.9	49
38	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. <i>Soft Matter</i> , 2011, 7, 3956.	2.7	18
39	Living/controlled free radical copolymerization of chlorotrifluoroethene and butyl vinyl ether under ^{60}Co β -ray irradiation in the presence of S-benzyl O-ethyl dithiocarbonate. <i>Chemical Communications</i> , 2011, 47, 7839.	4.1	21
40	A Strategy for Fabrication of Columnar Supramolecular Polymers by Highly Directional π - π Stacking and Strong Multiple Ionic Bonds. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 1016-1021.	2.2	4
41	Investigation on RAFT Polymerization of a Y-shaped Amphiphilic Fluorinated Monomer and Anti-Fog and Oil-Repellent Properties of the Polymers. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1816-1821.	3.9	38
42	A facile strategy for the fabrication of highly stable superhydrophobic cotton fabric using amphiphilic fluorinated triblock azide copolymers. <i>Polymer</i> , 2010, 51, 1940-1946.	3.8	71
43	Synthesis, characterization and self-assembly of ion-bonded amphiphilic A ₂ B miktoarm star copolymers containing an azobenzene unit at the core. <i>European Polymer Journal</i> , 2010, 46, 1417-1424.	5.4	11
44	Room-temperature RAFT copolymerization of 2-chloroallyl azide with methyl acrylate and versatile applications of the azide copolymers. <i>Journal of Polymer Science Part A</i> , 2010, 48, 1348-1356.	2.3	24
45	Effect of polystyrene- <i>b</i> -poly(ethylene oxide) on self-assembly of polystyrene- <i>b</i> -poly(<i>N</i> -isopropylacrylamide) in aqueous solution. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 1168-1174.	2.1	9
46	A Facile Approach for the Fabrication of Highly Stable Superhydrophobic Cotton Fabric with Multi-Walled Carbon Nanotubes/Azide Polymer Composites. <i>Langmuir</i> , 2010, 26, 7529-7534.	3.5	71
47	Synthesis and Self-Assembly of Novel Amphiphilic Six-Armed Star Copolymers TP[PDMAEMA- <i>b</i> -PSt] ₆ . <i>Macromolecular Chemistry and Physics</i> , 2009, 210, 478-485.	2.2	8
48	Synthesis of Amphiphilic Supramolecular Miktoarm Star Copolymers by Molecular Recognition. <i>Macromolecular Rapid Communications</i> , 2009, 30, 104-108.	3.9	3
49	A Facile Strategy for the Preparation of Azide Polymers via Room Temperature RAFT Polymerization by Redox Initiation. <i>Macromolecular Rapid Communications</i> , 2009, 30, 442-447.	3.9	50
50	Synthesis, Characterization and Self-Assembly of Novel Amphiphilic Block Copolymers with a Polyhedral Oligomeric Silsesquioxanes Moiety Attached at the Junction of the Two Blocks. <i>Macromolecular Rapid Communications</i> , 2009, 30, 1015-1020.	3.9	15
51	A Facile Strategy for Preparation of Heterobifunctional Polystyrenes with Well-Defined Molecular Weight. <i>Macromolecular Rapid Communications</i> , 2009, 30, 1922-1927.	3.9	4
52	A Facile Approach for Preparation of Phenylphosphinic Acid-Functionalized PSt Microspheres by Emulsion Polymerization Using Amphiphilic Macro-RAFT Agent as Emulsifier. <i>Macromolecules</i> , 2009, 42, 8697-8701.	4.8	27
53	Facile room temperature RAFT polymerization via redox initiation. <i>Journal of Polymer Science Part A</i> , 2008, 46, 2575-2580.	2.3	29
54	A strategy for synthesis of ion-bonded amphiphilic miktoarm star copolymers via supramolecular macro-RAFT agent. <i>Journal of Polymer Science Part A</i> , 2008, 46, 5805-5815.	2.3	19

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55	Synthesis, characterization, and self-assembly of ion-bonded A ₂ B rod-coil copolymer with oligo(para) Tj ETQ ₁ 1 0.784314 rgB	2.3	13
56	A Very Useful Redox Initiator for Aqueous RAFT Polymerization of <i>N</i> -isopropylacrylamide and Acrylamide at Room Temperature. <i>Macromolecular Rapid Communications</i> , 2008, 29, 562-566.	3.9	50
57	A Strategy for Synthesis of Ion-Bonded Supramolecular Star Polymers by Reversible Addition-Fragmentation Chain Transfer (RAFT) Polymerization. <i>Macromolecular Rapid Communications</i> , 2008, 29, 1477-1483.	3.9	16
58	Synthesis and characterization of starch piperinic ester and its self-assembly of nanospheres. <i>Journal of Applied Polymer Science</i> , 2008, 108, 523-528.	2.6	19
59	Synthesis and characterization of a novel two-component organogelator based on ion-bonded discotic complex. <i>Journal of Molecular Liquids</i> , 2008, 142, 118-123.	4.9	13
60	Controlled free-radical polymerization of methyl acrylate in the presence of a cyclic trithiocarbonate under ⁶⁰ Co γ -ray irradiation at low temperature. <i>European Polymer Journal</i> , 2007, 43, 847-854.	5.4	13
61	Controlled/living free-radical copolymerization of 4-(azidocarbonyl) phenyl methacrylate with methyl acrylate under ⁶⁰ Co γ -ray irradiation. <i>Journal of Polymer Science Part A</i> , 2007, 45, 2609-2616.	2.3	20
62	Low-temperature controlled free-radical polymerization of vinyl monomers in the presence of a novel cyclic dioxanthate under γ -ray irradiation. <i>Journal of Polymer Science Part A</i> , 2007, 45, 2847-2854.	2.3	13
63	Synthesis of mid-dicarboxy polystyrene by ATRP and formation of ionic-bonded supramolecules. <i>Frontiers of Chemical Engineering in China</i> , 2007, 1, 140-145.	0.6	1
64	Living free-radical copolymerization of allyl glycidyl ether with methyl acrylate. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2007, 2, 414-418.	0.4	1
65	Controlled/living free-radical copolymerization of allyl glycidyl ether with methyl acrylate under ⁶⁰ Co γ -ray irradiation. <i>Polymer</i> , 2006, 47, 6575-6580.	3.8	10
66	Synthesis of amphiphilic rod-coil ABC triblock copolymers with oligo(para-phenyleneethynylene) as the middle rigid block. <i>Polymer</i> , 2005, 46, 7572-7577.	3.8	7
67	Study on controlled/living free-radical polymerization of methyl acrylate in the presence of benzyl 9H-carbazole-9-carbodithioate under thermal condition. <i>European Polymer Journal</i> , 2005, 41, 1674-1680.	5.4	12
68	Dithioester (ZC(S)SR) mediated γ -controlled/living free-radical polymerization of methyl acrylate under ⁶⁰ Co γ -ray irradiation. Structure effect of Z-group. <i>Polymer</i> , 2005, 46, 12696-12702.	3.8	28
69	Rapid living free-radical polymerization of methyl acrylate under ⁶⁰ Co γ -ray irradiation at room temperature. <i>Polymer International</i> , 2004, 53, 821-823.	3.1	7
70	Dithiocarbamate mediated controlled/living free radical polymerization of methyl acrylate under ⁶⁰ Co γ -ray irradiation: Conjugation effect of N-group. <i>Journal of Polymer Science Part A</i> , 2004, 42, 5670-5677.	2.3	40
71	Controlled/Living Free-Radical Polymerization in the Presence of Benzyl 9H-Carbazole-9-Carbodithioate under ⁶⁰ Co γ -Ray Irradiation. <i>Macromolecular Chemistry and Physics</i> , 2004, 205, 1125-1130.	2.2	27
72	Xanthate-Mediated Controlled/Living Free-Radical Polymerization under ⁶⁰ Co γ -Ray Irradiation: Structure Effect of O-Group. <i>Macromolecular Chemistry and Physics</i> , 2004, 205, 1793-1799.	2.2	29

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73	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