

# Yongping Bai

## List of Publications by Year in descending order

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94  
papers

2,670  
citations

257101

24  
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197535

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96  
all docs

96  
docs citations

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times ranked

3353  
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of a carbon fiber/polyhedral oligomeric silsesquioxane/carbon nanotube hybrid reinforcement and its effect on the interfacial properties of carbon fiber/epoxy composites. <i>Carbon</i> , 2011, 49, 2624-2632.	5.4	232
2	Molecularly soldered covalent organic frameworks for ultrafast precision sieving. <i>Science Advances</i> , 2021, 7, .	4.7	185
3	Biomimetic nanoparticle-engineered superwetttable membranes for efficient oil/water separation. <i>Journal of Membrane Science</i> , 2021, 618, 118525.	4.1	178
4	Mussel-inspired tailoring of membrane wettability for harsh water treatment. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2650-2657.	5.2	175
5	Interface manipulation of CO <sub>2</sub> -philic composite membranes containing designed UiO-66 derivatives towards highly efficient CO <sub>2</sub> capture. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15064-15073.	5.2	150
6	Chemical recycling of carbon fibers reinforced epoxy resin composites in oxygen in supercritical water. <i>Materials &amp; Design</i> , 2010, 31, 999-1002.	5.1	142
7	Ultra-facile aqueous synthesis of nanoporous zeolitic imidazolate framework membranes for hydrogen purification and olefin/paraffin separation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 10898-10904.	5.2	107
8	Ultrathin 2D Metal-Organic Framework Nanosheets In situ Interpenetrated by Functional CNTs for Hybrid Energy Storage Device. <i>Nano-Micro Letters</i> , 2020, 12, 46.	14.4	105
9	Biomimetic Silicification on Membrane Surface for Highly Efficient Treatments of Both Oil-in-Water Emulsion and Protein Wastewater. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 29982-29991.	4.0	101
10	Mussel-inspired adhesive and conductive hydrogel with tunable mechanical properties for wearable strain sensors. <i>Journal of Colloid and Interface Science</i> , 2021, 585, 420-432.	5.0	81
11	Penetrating chains mimicking plant root branching to build mechanically robust, ultra-stable CO <sub>2</sub> -philic membranes for superior carbon capture. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16704-16711.	5.2	69
12	Design Strategies for Polymer Electrolytes with Ether and Carbonate Groups for Solid-State Lithium Metal Batteries. <i>Chemistry of Materials</i> , 2020, 32, 6811-6830.	3.2	57
13	Multifunctional Core-Shell Zwitterionic Nanoparticles To Build Robust, Stable Antifouling Membranes via Magnetic-Controlled Surface Segregation. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 35501-35508.	4.0	52
14	Using of carbon nanotubes and nano carbon black for electrical conductivity adjustment of pressure-sensitive adhesives. <i>International Journal of Adhesion and Adhesives</i> , 2012, 36, 20-24.	1.4	50
15	Effects of inorganic nanoparticles on plasticizers migration of flexible PVC. <i>Journal of Applied Polymer Science</i> , 2010, 115, 2178-2182.	1.3	41
16	Multi-walled carbon nanotubes (MWCNTs) functionalized with amino groups by reacting with supercritical ammonia fluids. <i>Materials Chemistry and Physics</i> , 2009, 116, 323-326.	2.0	40
17	Interface properties of carbon fiber/epoxy resin composite improved by supercritical water and oxygen in supercritical water. <i>Materials &amp; Design</i> , 2010, 31, 1613-1616.	5.1	37
18	Biodegradable self-adhesive tapes with starch carrier. <i>International Journal of Adhesion and Adhesives</i> , 2013, 44, 195-199.	1.4	36

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19	Fluorinated polyurethane based on liquid fluorine elastomer (LFH) synthesis via two-step method: the critical value of thermal resistance and mechanical properties. <i>RSC Advances</i> , 2017, 7, 30970-30978.	1.7	33
20	Ultrasound-responsive ultrathin multiblock copolyamide vesicles. <i>Nanoscale</i> , 2016, 8, 4922-4926.	2.8	31
21	A novel approach to graft acrylates onto commercial silicones for release film fabrications by two-step emulsion synthesis. <i>European Polymer Journal</i> , 2008, 44, 2728-2736.	2.6	28
22	Highly Stretchable, Ultratough, and Strong Polyesters with Improved Postcrystallization Optical Property Enabled by Dynamic Multiple Hydrogen Bonds. <i>Macromolecules</i> , 2021, 54, 1254-1266.	2.2	28
23	Modification of poly(ethylene terephthalate) by copolymerization of plant-derived $\beta$ -truxillic acid with excellent ultraviolet shielding and mechanical properties. <i>Chemical Engineering Journal</i> , 2019, 374, 1317-1325.	6.6	27
24	Fabrication and characterization of solution cast MWNTs/PEI nanocomposites. <i>Journal of Applied Polymer Science</i> , 2009, 113, 1879-1886.	1.3	25
25	The functionalization of fluoroelastomers: approaches, properties, and applications. <i>RSC Advances</i> , 2016, 6, 53730-53748.	1.7	23
26	Preparation and characterization of fluorinated acrylic pressure sensitive adhesives for low surface energy substrates. <i>Journal of Fluorine Chemistry</i> , 2015, 180, 103-109.	0.9	22
27	Mussel-mimetic polymer underwater adhesives with L-Dopa functionality: influencing adhesion properties and simplified operation procedures. <i>Journal of Materials Science</i> , 2020, 55, 7981-7997.	1.7	21
28	Quickly self-healing hydrogel at room temperature with high conductivity synthesized through simple free radical polymerization. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47379.	1.3	20
29	Heat resistance of acrylic pressure-sensitive adhesives based on commercial curing agents and UV/heat curing systems. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47310.	1.3	19
30	Antifreezing and Nondrying Sensors of Ionic Hydrogels with a Double-Layer Structure for Highly Sensitive Motion Monitoring. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 30256-30267.	4.0	19
31	Cellulose nanocomposite modified conductive self-healing hydrogel with enhanced mechanical property. <i>European Polymer Journal</i> , 2021, 146, 110258.	2.6	18
32	Synthesis and characterization of a water-soluble nylon copolyamide. <i>Polymer</i> , 2013, 54, 4171-4176.	1.8	17
33	Implementing plant-derived isosorbide and isomannide as comonomers for polyester synthesis: Effects of crystallization properties on optical properties. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45444.	1.3	17
34	New Insight for Solid Sulfide Electrolytes LSiPSI by Using Si/P/S as the Raw Materials and I Doping. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 12930-12937.	3.2	17
35	Hybrid emulsifiers enhancing polymerization stabilities and properties of pressure sensitive adhesives. <i>Journal of Applied Polymer Science</i> , 2010, 115, 1125-1130.	1.3	16
36	Covalent marriage of multi-walled carbon nanotubes (MWNTs) and $\beta$ -cyclodextrin ( $\beta$ -CD) by silicon coupling reagents. <i>Applied Surface Science</i> , 2011, 258, 1682-1688.	3.1	16

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37	Mechanical and Gas Barrier Properties of Structurally Enhanced Poly(ethylene terephthalate) by Introducing 1,6-Hexylenediamine Unit. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 21872-21880.	1.8	16
38	Biodegradable copolyester poly(butylene-co-isosorbide succinate) as hot-melt adhesives. <i>RSC Advances</i> , 2019, 9, 11476-11483.	1.7	16
39	Deciphering the mechanism of corona discharge treatment of BOPET film. <i>RSC Advances</i> , 2014, 4, 21782.	1.7	15
40	Synthesis and characterization of carborane-containing polyester with excellent thermal and ultrahigh char yield. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	15
41	Synthesis and properties of soap-free P(2-EHA-BA) emulsion for removable pressure sensitive adhesives. <i>RSC Advances</i> , 2014, 4, 47708-47713.	1.7	14
42	Coating based on the modified chlorinated polypropylene emulsion for promoting printability of biaxially oriented polypropylene film. <i>Journal of Adhesion Science and Technology</i> , 2018, 32, 50-67.	1.4	14
43	Fabrication of acrylic pressure-sensitive adhesives containing maleimide for heat-resistant adhesive applications. <i>Polymer Bulletin</i> , 2019, 76, 3093-3112.	1.7	14
44	Influence of selected photoinitiators type II on tack, peel adhesion, and shear strength of UV-crosslinked solvent-borne acrylic pressure-sensitive adhesives used for medical applications. <i>Polymer Bulletin</i> , 2012, 68, 441-452.	1.7	13
45	Synthesis of poly (n-butyl acrylates) by a novel microemulsion polymerization for PSAs applications. <i>International Journal of Adhesion and Adhesives</i> , 2013, 47, 69-72.	1.4	13
46	Novel acrylic pressure-sensitive adhesive (PSA) containing silver particles. <i>Journal of Adhesion Science and Technology</i> , 2013, 27, 1446-1454.	1.4	13
47	Synthesis of monodisperse nanocolloidal microspheres with controlled size by vesicle bilayer templating. <i>Chemical Communications</i> , 2014, 50, 7363-7366.	2.2	13
48	One-step, simple, and green synthesis of tin dioxide/graphene nanocomposites and their application to lithium-ion battery anodes. <i>Applied Surface Science</i> , 2014, 317, 486-489.	3.1	13
49	Studies on Isosorbide-enhanced Biodegradable Poly(ethylene succinate). <i>Chemical Research in Chinese Universities</i> , 2019, 35, 345-352.	1.3	13
50	Graft modification of chlorinated polypropylene and coating performance promotion for polypropylene. <i>International Journal of Adhesion and Adhesives</i> , 2014, 48, 231-237.	1.4	12
51	Thermal stability and surface properties of acrylic PSAs modified by hexafluorobutyl acrylate. <i>Journal of Adhesion Science and Technology</i> , 2016, 30, 300-312.	1.4	12
52	Syntheses and properties of the PET-co-PEA copolyester. <i>Journal of Applied Polymer Science</i> , 2017, 134, 44967.	1.3	12
53	Reversible adhesive based on gallic acid modified acrylate. <i>International Journal of Adhesion and Adhesives</i> , 2019, 90, 126-131.	1.4	11
54	Non-isothermal crystallization kinetics of bio-based poly(butylene-co-isosorbide succinate) (PBIS). <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 1931-1939.	2.0	11

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55	The approaches for promoting PP adhesion based on the surface modification. Journal of Adhesion Science and Technology, 2014, 28, 454-465.	1.4	10
56	Polyacrylate emulsion containing IBOMA for removable pressure sensitive adhesives. Journal of Applied Polymer Science, 2016, 133, .	1.3	10
57	Adhesion properties of atactic polypropylene/acrylate blend copolymer and its adhesion mechanism for untreated polypropylene materials. International Journal of Adhesion and Adhesives, 2018, 80, 7-15.	1.4	10
58	UV-initiated crosslinking of photoreactive acrylic pressure-sensitive adhesives using excimer-laser. Polymer Bulletin, 2013, 70, 479-488.	1.7	9
59	Synthesis of Aromatic Hyperbranched Polyester (HBPE) and its Use as a Nonmigrating Plasticiser. Australian Journal of Chemistry, 2014, 67, 22.	0.5	9
60	Temperature-dependent decaying mechanism of BOPET corona films. RSC Advances, 2014, 4, 9803.	1.7	9
61	Catalytic property of poly(ethylene terephthalate-co-isophthalate) synthesized with a novel Sb/Al bimetallic compound catalyst. RSC Advances, 2016, 6, 67677-67684.	1.7	8
62	Non-isothermal melt-crystallization kinetics of poly (ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td (terephthalate-co-sodium-5-s	1.2	8
63	Core-Shell Composite Synthesized through In Situ Polymerization in Emulsion with High Electrical Conductivity Sensitive to Humidity. Particle and Particle Systems Characterization, 2017, 34, 1600423.	1.2	8
64	Reversible adhesive based on self-repair behavior. Journal of Adhesion Science and Technology, 2021, 35, 111-132.	1.4	8
65	Polyether fluorinated amphiphilic diblock polymer: Preparation, characterization and application as drug delivery agent. European Polymer Journal, 2022, 162, 110872.	2.6	8
66	Fluorinated Polymeric Surfactant with a Pluronic-like Structure and Its Application as a Drug Carrier. ACS Applied Polymer Materials, 2021, 3, 4940-4948.	2.0	7
67	The water-dependent decay mechanism of biaxially-oriented corona-treated polyethylene terephthalate films. RSC Advances, 2014, 4, 54805-54809.	1.7	6
68	Crystallization behavior of poly(ethylene terephthalate- <i>co</i> - <i>n</i> eopentyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (terephthalate- <i>co</i> - <i>n</i> eopentyl) application in laminated tin-free steel. Journal of Applied Polymer Science, 2015, 132, .	1.3	6
69	Installation art-like hierarchical self-assembly of giant polymeric elliptical platelets. Nanoscale, 2017, 9, 2145-2149.	2.8	6
70	Ultraviolet grafting of styrene and maleic anhydride on polyethylene-terephthalate film. Journal of Applied Polymer Science, 2006, 102, 285-288.	1.3	5
71	Considerations of functional fluoropolymer structure in the design of acrylic-fluorine hybrid PSAs: Graft versus telechelic cooligomers. Journal of Applied Polymer Science, 2018, 135, 46038.	1.3	5
72	Synthesis and characterizations of a series of water soluble polyamides and their micellization behavior. Polymer, 2019, 179, 121634.	1.8	5

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73	Reversible adhesives based on acrylate copolymer modified by caffeic acid containing boroxin. Journal of Applied Polymer Science, 2020, 137, 48703.	1.3	5
74	Preparation and Microcosmic Structural Analysis of Recording Coating on Inkjet Printing Media. International Journal of Molecular Sciences, 2011, 12, 5422-5427.	1.8	4
75	A novel porous adhesion material with ink absorbency for digital inkjet printing. RSC Advances, 2015, 5, 36288-36294.	1.7	4
76	Poly(ethylene terephthalate-co-isophthalate) synthesized via a Sb/Al bimetallic compound catalyst: the effect of the end groups on the properties of polyester. RSC Advances, 2017, 7, 21780-21789.	1.7	4
77	Towards new environmentally friendly fluoroelastomers: from facile chemical degradation to efficient photo-crosslinkable reaction. Polymer International, 2019, 68, 1952-1960.	1.6	4
78	Properties of poly(butylene-co-isosorbide succinate) after blown film extrusion. Green Materials, 2020, 8, 68-78.	1.1	4
79	Synthesis and properties of poly(ethylene terephthalate) modified with a small amount of 1,10-decanediamine and hydrogen bonds. Journal of Materials Science, 2021, 56, 4922-4939.	1.7	4
80	Fabrication of UV/moisture dual curing coatings based on fluorinated polyoxetanes for anti-fouling applications. Progress in Organic Coatings, 2022, 163, 106656.	1.9	4
81	Fabrication of UV-curable Anti-fouling coating based on fluorinated polyoxetane and long Side-Chain Polysilcone. European Polymer Journal, 2022, 172, 111227.	2.6	4
82	Effect of the B:Zn:H <sub>2</sub> O Molar Ratio on the Properties of Poly(Vinyl Acetate) and Zinc Borate-Based Intumescent Coating Materials Exposed to a Quasi-Real Cellulosic Fire. Polymers, 2020, 12, 2542.	2.0	3
83	Oxygen barrier property of synthesized polyacrylate coatings containing inter-chain crosslinking architecture on PET film. Journal of Applied Polymer Science, 2021, 138, 50836.	1.3	3
84	The study of improving the compatibility of the blend of TVVM resin and polyester as a non-reactive hot melt adhesive used in OMD technique. Journal of Adhesion Science and Technology, 2019, 33, 1959-1973.	1.4	2
85	The Synthesis and Characterization of Carborane-Terminated Polymethyl Methacrylate via ATRP. Journal of Inorganic and Organometallic Polymers and Materials, 2019, 29, 1496-1502.	1.9	2
86	Synthesis of photo-crosslinked hybrid fluoropolymer and its application as releasing coating for silicone pressure-sensitive adhesives. Journal of Applied Polymer Science, 2020, 137, 48322.	1.3	2
87	Polyacrylate Decorating Poly(ethylene terephthalate) (PET) Film Surface for Boosting Oxygen Barrier Property. Coatings, 2021, 11, 1451.	1.2	2
88	Lasting high surface energy co-polyester ionomer and its application in laminated tin-free steel. Journal of Applied Polymer Science, 2017, 134, 45174.	1.3	1
89	In situ synthesis of poly(ethylene terephthalate-co-isophthalate)-SiO <sub>2</sub> nanocomposites and their optical properties. Polymer Science - Series B, 2017, 59, 630-638.	0.3	1
90	Super stable giant tubes with densely packed multilayer ultrathick membranes self-assembled from amphiphilic polyamide. Chemical Communications, 2020, 56, 2650-2653.	2.2	1

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91	Water-based poly(2-ethylhexyl acrylate-coitaconic acid) removable adhesives with frost resistance for digital inkjet printing. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49651.	1.3	1
92	Hierarchical Self-assembly of Polyamide Helical Fibers. <i>Acta Chimica Sinica</i> , 2016, 74, 990.	0.5	1
93	Effects of the cross-linking structures of polyacrylate coating on PET films on oxygen permeability. <i>Polymer Bulletin</i> , 0, , 1.	1.7	1
94	Transition of Ultrathick Polyamide Tubes into Vesicles with Great Stability. <i>Macromolecular Rapid Communications</i> , 2021, 42, 2000481.	2.0	0