

Feng Yang

List of Publications by Year in descending order

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50
papers

942
citations

430874

18
h-index

477307

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all docs

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docs citations

50
times ranked

631
citing authors

#	ARTICLE	IF	CITATIONS
1	Separator impregnated with polyvinyl alcohol to simultaneously improve electrochemical performances and compression resistance. <i>Electrochimica Acta</i> , 2022, 403, 139568.	5.2	11
2	Low-Cost Mass Manufacturing Technique for the Shutdown-Functionalized Lithium-Ion Battery Separator Based on Al ₂ O ₃ Coating Online Construction during the β -iPP Cavitation Process. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 6714-6728.	8.0	26
3	Low-Cost and Large-Scale Fabricating Technology for High-Performance Lithium-Ion Battery Composite Separators with Connected Nano-Al ₂ O ₃ Coating. <i>ACS Applied Energy Materials</i> , 2022, 5, 615-626.	5.1	12
4	Design of molecular structure for commercial polyethylene100 pipe. <i>Journal of Polymer Research</i> , 2022, 29, 1.	2.4	2
5	Facile manufacture technique for lithium-ion batteries composite separator via online construction of fumed SiO ₂ coating. <i>Materials and Design</i> , 2022, 215, 110476.	7.0	8
6	Facile Preparation of a Trilayer Separator with a Shutdown Function Based on the Compounding of β -Crystal Polypropylene and Hydrogenated Petroleum Resin. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 9015-9024.	3.7	0
7	Construction of a composite microporous polyethylene membrane with enhanced fouling resistance for water treatment. <i>Journal of Membrane Science</i> , 2021, 618, 118679.	8.2	42
8	Effect of molecular weight and isotacticity distribution on hard elastic polypropylene cast films and membranes. <i>Polymer International</i> , 2021, 70, 212-221.	3.1	2
9	The unusual delamination phenomenon of three kinds of lithium-ion battery separators. <i>Polymer International</i> , 2021, 70, 288-297.	3.1	3
10	Comparison of the Structural Evolution of β Polypropylene during the Sequential and Simultaneous Biaxial Stretching Process. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2021, 39, 620-631.	3.8	7
11	Microporous structure and mechanical behavior of separators used for lithium-ion battery. <i>Journal of Polymer Research</i> , 2021, 28, 1.	2.4	4
12	Improving the low-temperature toughness of PPR pipe by compounding with PERT. <i>Journal of Polymer Research</i> , 2021, 28, 1.	2.4	5
13	Preparation of highly oriented β polypropylene and its pore formation mechanism during stretching. <i>Polymer Crystallization</i> , 2021, 4, e10183.	0.8	9
14	Preparation and Performance Evaluation of Antibacterial Melt-Spun Polyurethane Fiber Loaded with Berberine Hydrochloride. <i>Polymers</i> , 2021, 13, 2336.	4.5	7
15	Development of Multilayer Polypropylene Separators for Lithium-Ion Batteries via an Industrial Process. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 11611-11620.	3.7	5
16	Investigation on cavitation behavior of ultrahigh molecular weight polyethylene during stretching in wet process and dry process. <i>Polymer</i> , 2021, 230, 124081.	3.8	19
17	Facile Preparation of a Lithium-Ion Battery Separator with Thermal Shutdown Function Based on Polypropylene/Polyethylene Microsphere Composites. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 18530-18539.	3.7	11
18	The structure changes of polypropylene precursor film with different die draw ratio during annealing. <i>Polymer</i> , 2020, 208, 122958.	3.8	9

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19	Effect of annealing on the microvoid formation and evolution during biaxial stretching of \hat{I}^2 nucleated isotactic polypropylene. <i>Polymer-Plastics Technology and Materials</i> , 2020, 59, 1595-1607.	1.3	0
20	Enhancing the Chlorine Stability and Antifouling Properties of Thin-Film Composite Reverse Osmosis Membranes via Surface Grafting <i><i>L</i></i> -Arginine-Functionalized Polyvinyl Alcohol. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 10882-10893.	3.7	19
21	Three-dimensional crystal structure evolution and micropore formation of \hat{I}^2 -iPP during biaxial stretching. <i>Polymer</i> , 2020, 196, 122471.	3.8	14
22	The Influence of Multiple Stimulations on the Unusual Delamination Phenomenon of a Li-Ion Battery Separator Prepared by a Wet Process. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 4568-4579.	3.7	11
23	The compression behavior, microstructure evolution and properties variation of three kinds of commercial battery separators under compression load. <i>Journal of Power Sources</i> , 2020, 451, 227819.	7.8	37
24	Solution-Processable and Patternable Poly(<i><i>o</i></i> -methoxyaniline)-Based Nanocomposite Film for Large-Area Electrochromic Display with Large Optical Modulation and Ultrafast Response Speed. <i>Journal of Physical Chemistry C</i> , 2020, 124, 10898-10906.	3.1	14
25	Effect of temperature on compression behavior of polypropylene separator used for Lithium-ion battery. <i>Journal of Power Sources</i> , 2020, 466, 228300.	7.8	41
26	Influence of comonomer distribution on crystallization kinetics and performance of polyethylene of raised temperature resistance. <i>Polymer International</i> , 2019, 68, 1748-1758.	3.1	5
27	The effect of microstructure on the toughness of polypropylene random copolymer. <i>Polymer-Plastics Technology and Materials</i> , 2019, 58, 1521-1534.	1.3	2
28	Pore formation and evolution mechanism during biaxial stretching of \hat{I}^2 -iPP used for lithium-ion batteries separator. <i>Materials and Design</i> , 2019, 179, 107880.	7.0	37
29	Patterned Flexible Electrochromic Device Based on Monodisperse Silica/Polyaniline Core/Shell Nanospheres. <i>Journal of the Electrochemical Society</i> , 2019, 166, H343-H350.	2.9	32
30	Effect of PPR on the pore formation behavior and pore performances of \hat{I}^2 -iPP microporous membrane used for Lithium-ion battery separator. <i>Journal of Polymer Research</i> , 2019, 26, 1.	2.4	9
31	Effect of annealing on microstructure and mechanical properties of polypropylene random copolymer. <i>Soft Materials</i> , 2019, 17, 1-13.	1.7	7
32	Probing influences of support layer on the morphology of polyamide selective layer of thin film composite membrane. <i>Journal of Membrane Science</i> , 2018, 556, 374-383.	8.2	101
33	Effect of surfactant on morphology and pore size of polysulfone membrane. <i>Journal of Polymer Research</i> , 2018, 25, 1.	2.4	14
34	Effect of Fumed SiO ₂ on Pore Formation Mechanism and Various Performances of \hat{I}^2 -iPP Microporous Membrane Used for Lithium-ion Battery Separator. <i>Chinese Journal of Polymer Science (English)</i> Tj ETQq0 0 0 rgBT # Overlock 10 Tf 50 13	3.8	10
35	Influences of Compression on the Mechanical Behavior and Electrochemical Performances of Separators for Lithium Ion Batteries. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 17142-17151.	3.7	29
36	Effect of high molecular weight on pore formation and various properties of microporous membrane used for lithium-ion battery separator. <i>Journal of Polymer Research</i> , 2018, 25, 1.	2.4	8

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37	Influence of L-lysine on the permeation and antifouling performance of polyamide thin film composite reverse osmosis membranes. RSC Advances, 2018, 8, 25236-25247.	3.6	43
38	Impact of different die draw ratio on crystalline and oriented properties of polypropylene cast films and annealed films. Journal of Polymer Research, 2018, 25, 1.	2.4	8
39	Deformation and pore formation mechanism of \hat{I}^2 nucleated polypropylene with different supermolecular structures. European Polymer Journal, 2017, 91, 134-148.	5.4	26
40	Investigation of deformation and pore formation in isotactic polypropylene containing active nano-CaCO ₃ . Polymer International, 2017, 66, 1498-1509.	3.1	9
41	Deformation and pore formation mechanism under tensile loading in isotactic polypropylene. Polymer International, 2017, 66, 1129-1140.	3.1	16
42	Influence of oriented \hat{I}^2 lamellae on deformation and pore formation in \hat{I}^2 nucleated polypropylene. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 1745-1759.	2.1	15
43	Influence of lamellar structure on the stress-strain behavior of \hat{I}^2 nucleated polypropylene under tensile loading at elevated temperatures. RSC Advances, 2015, 5, 43496-43507.	3.6	18
44	Investigation on the dynamic crystallization and melting behavior of \hat{I}^2 nucleated isotactic polypropylene with different stereo-defect distribution—the role of dual selective \hat{I}^2 nucleation agent. Polymers for Advanced Technologies, 2014, 25, 97-107.	3.2	39
45	Investigation on double yielding behavior under tensile loading in isotactic polypropylene. Materials & Design, 2014, 60, 153-163.	5.1	26
46	Understanding in the morphology and tensile behavior of isotactic polypropylene cast films with different stereo-defect distribution. Journal of Polymer Research, 2014, 21, 1.	2.4	14
47	Influence of annealing on stress-strain behaviors and performances of \hat{I}^2 nucleated polypropylene stretched membranes. Journal of Polymer Research, 2014, 21, 1.	2.4	10
48	Phase separation in a PSf/DMF/water system: a proposed mechanism for macrovoid formation. RSC Advances, 2014, 4, 42391-42402.	3.6	24
49	Pore formation mechanism of \hat{I}^2 nucleated polypropylene stretched membranes. RSC Advances, 2014, 4, 36689-36701.	3.6	69
50	Influence of lamellar structure on double yield behavior and pore size distribution in \hat{I}^2 nucleated polypropylene stretched membranes. RSC Advances, 2014, 4, 43012-43023.	3.6	44