

# Xu Ji

## List of Publications by Year in descending order

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60  
papers

1,716  
citations

361045

20  
h-index

288905

40  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1930  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrically conductive and electromagnetic interference shielding of polyethylene composites with devisable carbon nanotube networks. <i>Journal of Materials Chemistry C</i> , 2015, 3, 9369-9378.	2.7	227
2	Effects of expandable graphite and ammonium polyphosphate on the flame-retardant and mechanical properties of rigid polyurethane foams. <i>Journal of Applied Polymer Science</i> , 2009, 114, 853-863.	1.3	144
3	Enhanced mechanical and thermal properties of rigid polyurethane foam composites containing graphene nanosheets and carbon nanotubes. <i>Polymer International</i> , 2012, 61, 1107-1114.	1.6	132
4	Super-Robust Polylactide Barrier Films by Building Densely Oriented Lamellae Incorporated with Ductile in Situ Nanofibrils of Poly(butylene adipate-co-terephthalate). <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 8096-8109.	4.0	102
5	Extensional Stress-Induced Orientation and Crystallization can Regulate the Balance of Toughness and Stiffness of Polylactide Films: Interplay of Oriented Amorphous Chains and Crystallites. <i>Macromolecules</i> , 2019, 52, 5278-5288.	2.2	79
6	Electrical conductivity and major mechanical and thermal properties of carbon nanotube-filled polyurethane foams. <i>Journal of Applied Polymer Science</i> , 2011, 120, 3014-3019.	1.3	77
7	Interfacial Shish-Kebabs Lengthened by Coupling Effect of In Situ Flexible Nanofibrils and Intense Shear Flow: Achieving Hierarchy To Conquer the Conflicts between Strength and Toughness of Polylactide. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 10148-10159.	4.0	77
8	Enhanced Heat Deflection Resistance via Shear Flow-Induced Stereocomplex Crystallization of Polylactide Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 1692-1703.	3.2	74
9	Improved adaptive immune genetic algorithm for optimal QoS-aware service composition selection in cloud manufacturing. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 96, 4455-4465.	1.5	67
10	A Unique Double Percolated Polymer Composite for Highly Efficient Electromagnetic Interference Shielding. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 1232-1241.	1.7	62
11	Core-shell structure design of pulverized expandable graphite particles and their application in flame-retardant rigid polyurethane foams. <i>Polymer International</i> , 2014, 63, 72-83.	1.6	37
12	Polyamide-6/Poly(lactic acid) Blends Compatibilized by the Maleic Anhydride Grafted Polyethylene-Octene Elastomer. <i>Polymer-Plastics Technology and Engineering</i> , 2010, 49, 1241-1246.	1.9	36
13	Improved performance balance of polyethylene by simultaneously forming oriented crystals and blending ultrahigh-molecular-weight polyethylene. <i>RSC Advances</i> , 2014, 4, 1512-1520.	1.7	35
14	Integrating feature optimization using a dynamic convolutional neural network for chemical process supervised fault classification. <i>Chemical Engineering Research and Design</i> , 2021, 155, 473-485.	2.7	30
15	Study on the mode of intelligent chemical industry based on cyber-physical system and its implementation. <i>Advances in Engineering Software</i> , 2016, 99, 18-26.	1.8	27
16	Improved mechanical and barrier properties of low-density polyethylene nanocomposite films by incorporating hydrophobic graphene oxide nanosheets. <i>RSC Advances</i> , 2015, 5, 80739-80748.	1.7	26
17	Anomalous attenuation and structural origin of positive temperature coefficient (PTC) effect in a carbon black (CB)/poly(ethylene terephthalate) (PET)/polyethylene (PE) electrically conductive microfibrillar polymer composite with a preferential CB distribution. <i>Journal of Applied Polymer Science</i> , 2012, 125, F561.	1.3	24
18	The knowledge modeling system of ready-mixed concrete enterprise and artificial intelligence with ANN-GA for manufacturing production. <i>Journal of Intelligent Manufacturing</i> , 2016, 27, 905-914.	4.4	21

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19	Baroplastics with Robust Mechanical Properties and Reserved Processability through Hydrogen-Bonded Interactions. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 12008-12016.	4.0	21
20	Superhydrophobic, Self-Cleaning, and Robust Properties of Oriented Polylactide Imparted by Surface Structuring. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 6296-6304.	3.2	21
21	Realization of ultra-high barrier to water vapor by 3D-interconnection of super-hydrophobic graphene layers in polylactide films. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14377-14386.	5.2	20
22	Electrical Properties of an Ultralight Conductive Carbon Nanotube/Polymer Composite Foam Upon Compression. <i>Polymer-Plastics Technology and Engineering</i> , 2012, 51, 304-306.	1.9	19
23	Morphology and non-isothermal crystallization of in-situ microfibrillar poly(ethylene Terephthalate) / Polybutylene Terephthalate. <i>Materials Science</i> , 2004, 39, 6839-6842.	1.7	17
24	Crystallization of linear low density polyethylene on an in situ oriented isotactic polypropylene substrate manipulated by an extensional flow field. <i>CrystEngComm</i> , 2016, 18, 77-91.	1.3	17
25	Repeatable, room-temperature-processed baroplastic-carbon nanotube composites for electromagnetic interference shielding. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12955-12964.	2.7	17
26	Robust hydrogel of regenerated cellulose by chemical crosslinking coupled with polyacrylamide network. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47811.	1.3	17
27	Non-isothermal crystallization of ethylene-vinyl acetate copolymer containing a high weight fraction of graphene nanosheets and carbon nanotubes. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2012, 30, 879-892.	2.0	16
28	Segregated Conductive Ultrahigh-Molecular-Weight Polyethylene Composites Containing High-Density Polyethylene as Carrier Polymer of Graphene Nanosheets. <i>Polymer-Plastics Technology and Engineering</i> , 2012, 51, 1483-1486.	1.9	15
29	Tailored Structure and Properties of Injection-Molded Atactic Polypropylene/Isotactic Polypropylene Blend. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 937-949.	3.2	15
30	Highly Efficient Composite Barrier Wall Consisting of Concentrated Graphene Oxide Nanosheets and Impermeable Crystalline Structure for Poly(lactic acid) Nanocomposite Films. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 9544-9554.	1.8	15
31	Robust cellulose nanocomposite films based on covalently cross-linked network with effective resistance to water permeability. <i>Carbohydrate Polymers</i> , 2019, 211, 237-248.	5.1	15
32	Online Optimization of Fluid Catalytic Cracking Process via a Hybrid Model Based on Simplified Structure-Oriented Lumping and Case-Based Reasoning. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 412-424.	1.8	15
33	Innovative enhancement of gas barrier properties of biodegradable poly(butylene succinate) nanocomposite films by introducing confined crystals. <i>RSC Advances</i> , 2016, 6, 2530-2536.	1.7	14
34	Deep-Learning Architecture in QSPR Modeling for the Prediction of Energy Conversion Efficiency of Solar Cells. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 18991-19000.	1.8	13
35	Adaptive Modeling Strategy Integrating Feature Selection and Random Forest for Fluid Catalytic Cracking Processes. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 11265-11274.	1.8	13
36	Cloud manufacturing model in polymer material industry. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 84, 239-248.	1.5	12

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37	Crystallization behavior and morphology of one-step reaction compatibilized microfibrillar reinforced isotactic polypropylene/poly(ethylene terephthalate) (iPP/PET) blends. Chinese Journal of Polymer Science (English Edition), 2011, 29, 540-551.	2.0	11
38	Coupling Effect of Mechanical and Thermal Rejuvenation for Polystyrene: Toward High Performance of Stiffness, Ductility, and Transparency. Macromolecules, 2021, 54, 8875-8885.	2.2	11
39	Improved Random Forest Algorithm Based on Decision Paths for Fault Diagnosis of Chemical Process with Incomplete Data. Sensors, 2021, 21, 6715.	2.1	11
40	Morphology and Crystallization Behavior of Compatibilized Isotactic Polypropylene/Poly(butylene Terephthalate)/Overlock 10 Tf 507-513.	1.9	9
41	In-situ synchrotron x-ray scattering study on isothermal crystallization of ethylene-vinyl acetate copolymers containing a high weight fraction of carbon nanotubes and graphene nanosheets. Journal of Polymer Research, 2012, 19, 1.	1.2	9
42	A Surrogate-Assisted Approach for the Optimal Synthesis of Refinery Hydrogen Networks. Industrial & Engineering Chemistry Research, 2019, 58, 16798-16812.	1.8	9
43	Rapid preparation and continuous processing of polylactide stereocomplex crystallite below its melting point. Polymer Bulletin, 2019, 76, 3371-3385.	1.7	9
44	Comprehensive Machine Learning-Based Model for Predicting Compressive Strength of Ready-Mix Concrete. Materials, 2021, 14, 1068.	1.3	9
45	Enhanced foamability of isotactic polypropylene composites by polypropylene-graft-carbon nanotube. Journal of Applied Polymer Science, 2013, 130, 961-968.	1.3	8
46	Preparation and properties of carbon nanotube/binary-polymer composites with a double-segregated structure. Journal of Applied Polymer Science, 2014, 131, .	1.3	8
47	Adaptive Data Dimensionality Reduction for Chemical Process Modeling Based on the Information Criterion Related to Data Association and Redundancy. Industrial & Engineering Chemistry Research, 2022, 61, 1148-1166.	1.8	8
48	Confined crystallization of poly(butylene succinate) intercalated into organoclays: role of surfactant polarity. RSC Advances, 2016, 6, 68072-68080.	1.7	7
49	Quantification of pressure-induced $\beta$ -crystals in isotactic polypropylene: The influence of shear and carbon nanotubes. Polymer Crystallization, 2018, 1, e10002.	0.5	6
50	Simulation-Based Multiobjective Optimization of the Product Separation Process within an MTP Plant. Industrial & Engineering Chemistry Research, 2019, 58, 12166-12178.	1.8	6
51	Coal Industrial Supply Chain Network and Associated Evaluation Models. Sustainability, 2020, 12, 9919.	1.6	5
52	Industrially Scalable Approach to Nanohybrid Shish Kebabs by In Situ Nanofibrillation of Isotactic Poly(propylene). Macromolecular Chemistry and Physics, 2015, 216, 2241-2248.	1.1	4
53	A Hybrid Algorithm for the Reliability Evaluation Models of Chemical Systems. Quality and Reliability Engineering International, 2017, 33, 1337-1349.	1.4	4
54	A machine learning methodology for reliability evaluation of complex chemical production systems. RSC Advances, 2020, 10, 20374-20384.	1.7	3

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55	Machine-Learning-Guided Identification of Coordination Polymer Ligands for Crystallizing Separation of Cs/Sr. ACS Applied Materials & Interfaces, 2022, 14, 33076-33084.	4.0	3
56	Organic liquid stimuli-response behaviors of electrically conductive microfibrillar composite with a selective conductive component distribution. Journal of Applied Polymer Science, 2012, 124, 4466-4474.	1.3	2
57	Strong and ductile poly(butylene adipate-co-terephthalate) biocomposites fabricated by oscillation shear injection molding. Journal of Applied Polymer Science, 2016, 133, .	1.3	2
58	Room-temperature repeatedly processable baroplastic/boron nitride thermal management composite. Journal of Materials Chemistry C, 2021, 9, 10388-10397.	2.7	2
59	Design of Refinery Hydrogen Networks with Pressure Swing Adsorption Unit Configuration under Uncertainty: Economy and Flexibility Aspects. Industrial & Engineering Chemistry Research, 2022, 61, 7322-7334.	1.8	1
60	Synthesis and optimization of refinery hydrogen network using surrogate models. Computer Aided Chemical Engineering, 2019, 46, 655-660.	0.3	0