

# Xiaowei Chen

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7546485/publications.pdf>

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16  
papers

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citations

933447

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940533

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docs citations

16  
times ranked

684  
citing authors

#	ARTICLE	IF	CITATIONS
1	Negatively Charged Nanosheets Significantly Enhance the Energy Storage Capability of Polymer-Based Nanocomposites. <i>Advanced Materials</i> , 2020, 32, e1907227.	21.0	156
2	Radiopaque Highly Stiff and Tough Shape Memory Hydrogel Microcoils for Permanent Embolization of Arteries. <i>Advanced Functional Materials</i> , 2018, 28, 1705962.	14.9	107
3	Structural Evolution of Hard-Elastic Isotactic Polypropylene Film during Uniaxial Tensile Deformation: The Effect of Temperature. <i>Macromolecules</i> , 2018, 51, 2690-2705.	4.8	82
4	Deformation of Ultrahigh Molecular Weight Polyethylene Precursor Fiber: Crystal Slip with or without Melting. <i>Macromolecules</i> , 2017, 50, 6385-6395.	4.8	57
5	Deformation mechanism of iPP under uniaxial stretching over a wide temperature range: An in-situ synchrotron radiation SAXS/WAXS study. <i>Polymer</i> , 2017, 118, 12-21.	3.8	53
6	Frustrating Strain-Induced Crystallization of Natural Rubber with Biaxial Stretch. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 47535-47544.	8.0	43
7	Programming colloidal bonding using DNA strand-displacement circuitry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 5617-5623.	7.1	27
8	Structural Evolution of UHMWPE Fibers during Prestretching Far and Near Melting Temperature: An In Situ Synchrotron Radiation Small- and Wide-Angle X-Ray Scattering Study. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1700493.	3.6	18
9	Preparation of Highly Oriented Polyethylene Precursor Film with Fibril and Its Influence on Microporous Membrane Formation. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 974-986.	2.2	12
10	Stabilization Mechanism of Micropore in High-Density Polyethylene: A Comparison between Thermal and Mechanical Pathways. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1700178.	3.6	10
11	A small-angle x-ray scattering system with a vertical layout. <i>Review of Scientific Instruments</i> , 2014, 85, 125110.	1.3	9
12	One pot synthesis of bimodal UHMWPE/HDPE in reactor blends with Cr/V bimetallic catalysts. <i>Journal of Polymer Science Part A</i> , 2017, 55, 3404-3412.	2.3	8
13	Morphology diagram of PE gel films in wide range temperature-strain space: An in situ SAXS and WAXS study. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 748-757.	2.1	7
14	Stretch-Induced Melting and Recrystallization of Polyethylene-Plasticizer Film Studied by In Situ X-Ray Scattering: A Thermodynamic Point of View. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018, 56, 1521-1528.	2.1	4
15	Collapse Transition-Assisted Crystallization in P3HT Solution. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 1105-1114.	2.1	3
16	Time-resolved orientation detection system with quantum cascade lasers. <i>Review of Scientific Instruments</i> , 2018, 89, 073101.	1.3	1