

# Renxuan Xie

## List of Publications by Year in descending order

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24  
papers

786  
citations

623188

14  
h-index

642321

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g-index

24  
all docs

24  
docs citations

24  
times ranked

1027  
citing authors

#	ARTICLE	IF	CITATIONS
1	Class transition temperature from the chemical structure of conjugated polymers. <i>Nature Communications</i> , 2020, 11, 893.	5.8	130
2	Dynamic Bottlebrush Polymer Networks: Self-Healing in Super-Soft Materials. <i>Journal of the American Chemical Society</i> , 2020, 142, 7567-7573.	6.6	108
3	Room temperature 3D printing of super-soft and solvent-free elastomers. <i>Science Advances</i> , 2020, 6, .	4.7	81
4	Class Transition Temperature of Conjugated Polymers by Oscillatory Shear Rheometry. <i>Macromolecules</i> , 2017, 50, 5146-5154.	2.2	78
5	Super-soft solvent-free bottlebrush elastomers for touch sensing. <i>Materials Horizons</i> , 2020, 7, 181-187.	6.4	63
6	Predicting strength of additively manufactured thermoplastic polymer parts produced using material extrusion. <i>Rapid Prototyping Journal</i> , 2018, 24, 321-332.	1.6	49
7	Connecting the Mechanical and Conductive Properties of Conjugated Polymers. <i>Advanced Electronic Materials</i> , 2018, 4, 1700356.	2.6	41
8	Universal Approach to Photo-Crosslink Bottlebrush Polymers. <i>Macromolecules</i> , 2020, 53, 1090-1097.	2.2	34
9	Side chain length affects backbone dynamics in poly(3-alkylthiophene)s. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018, 56, 1193-1202.	2.4	31
10	A critical gel fluid with high extensibility: The rheology of chewing gum. <i>Journal of Rheology</i> , 2014, 58, 821-838.	1.3	26
11	Local Chain Alignment via Nematic Ordering Reduces Chain Entanglement in Conjugated Polymers. <i>Macromolecules</i> , 2018, 51, 10271-10284.	2.2	24
12	Role of Chain Polarity on Ion and Polymer Dynamics: Molecular Volume-Based Analysis of the Dielectric Constant for Polymerized Norbornene-Based Ionic Liquids. <i>Macromolecules</i> , 2020, 53, 10561-10573.	2.2	18
13	Predicting the Plateau Modulus from Molecular Parameters of Conjugated Polymers. <i>ACS Central Science</i> , 2022, 8, 268-274.	5.3	17
14	Random Copolymers Allow Control of Crystallization and Microphase Separation in Fully Conjugated Block Copolymers. <i>Macromolecules</i> , 2018, 51, 8844-8852.	2.2	15
15	Fluoropolymer-diluted small molecule organic semiconductors with extreme thermal stability. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	13
16	Molecular Weight Characterization of Conjugated Polymers Through Gel Permeation Chromatography and Static Light Scattering. <i>ACS Applied Polymer Materials</i> , 2021, 3, 4572-4578.	2.0	11
17	Thermal Fluctuations Lead to Cumulative Disorder and Enhance Charge Transport in Conjugated Polymers. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1900134.	2.0	8
18	Model for the electro-mechanical behavior of elastic organic transistors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 9276-9285.	2.7	8

#	ARTICLE	IF	CITATIONS
19	Close-Packed Spherical Morphology in an ABA Triblock Copolymer Aligned with Large-Amplitude Oscillatory Shear. <i>Macromolecules</i> , 2016, 49, 4875-4888.	2.2	7
20	Yielding Behavior of Bottlebrush and Linear Block Copolymers. <i>Macromolecules</i> , 2021, 54, 5636-5647.	2.2	7
21	Ion Conducting ROMP Monomers Based on (Oxa)norbornenes with Pendant Imidazolium Salts Connected via Oligo(oxyethylene) Units and with Oligo(ethyleneoxy) Terminal Moieties. <i>Macromolecules</i> , 2019, 52, 1371-1388.	2.2	6
22	Carbon Nanotube Composites with Bottlebrush Elastomers for Compliant Electrodes. <i>ACS Polymers Au</i> , 2022, 2, 27-34.	1.7	6
23	Studies of Ion Conductance in Polymers Derived from Norbornene Imidazolium Salts Containing Ethyleneoxy Moieties. <i>Macromolecules</i> , 2019, 52, 1389-1399.	2.2	5
24	Characterization of chain alignment at buried interfaces using Mueller matrix spectroscopy. <i>MRS Communications</i> , 2020, 10, 292-297.	0.8	0