

# Chengzhen Geng

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

1,104  
citations

471509

17  
h-index

610901

24  
g-index

25  
all docs

25  
docs citations

25  
times ranked

1221  
citing authors

#	ARTICLE	IF	CITATIONS
1	New Understanding in Tuning Toughness of $\hat{I}^2$ -Polypropylene: The Role of $\hat{I}^2$ -Nucleated Crystalline Morphology. <i>Macromolecules</i> , 2009, 42, 9325-9331.	4.8	274
2	Design and Preparation of a Unique Segregated Double Network with Excellent Thermal Conductive Property. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 7637-7647.	8.0	155
3	Shear induced fiber orientation, fiber breakage and matrix molecular orientation in long glass fiber reinforced polypropylene composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 3169-3176.	5.6	76
4	Dependence of mechanical properties on $\hat{I}^2$ content and crystalline morphology for $\hat{I}^2$ -nucleated isotactic polypropylene. <i>Polymers for Advanced Technologies</i> , 2011, 22, 2044-2054.	3.2	74
5	Hierarchical structure and unique impact behavior of polypropylene/ethylene-octene copolymer blends as obtained via dynamic packing injection molding. <i>Polymer</i> , 2013, 54, 3392-3401.	3.8	51
6	Fabrication of well-controlled porous foams of graphene oxide modified poly(propylene-carbonate) using supercritical carbon dioxide and its potential tissue engineering applications. <i>Journal of Supercritical Fluids</i> , 2013, 73, 1-9.	3.2	51
7	Toward environment-friendly composites of poly(propylene carbonate) reinforced with cellulose nanocrystals. <i>Composites Science and Technology</i> , 2013, 78, 63-68.	7.8	48
8	Interfacial strength and mechanical properties of biocomposites based on ramie fibers and poly(butylene succinate). <i>RSC Advances</i> , 2013, 3, 26418.	3.6	44
9	Property reinforcement of poly(propylene carbonate) by simultaneous incorporation of poly(lactic acid) and poly(butylene succinate). <i>Journal of Applied Polymer Science</i> , 2014, 114, 1074-1082.	7.8	42
10	Impact toughness of polypropylene/glass fiber composites: Interplay between intrinsic toughening and extrinsic toughening. <i>Composites Part B: Engineering</i> , 2016, 92, 413-419.	12.0	41
11	Simultaneously reduced viscosity and enhanced strength of liquid silicone rubber/silica composites by silica surface modification. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45544.	2.6	33
12	Largely improved toughness of polypropylene/long glass fiber composites by $\hat{I}^2$ -modification and annealing. <i>Composites Science and Technology</i> , 2014, 96, 56-62.	7.8	31
13	Strong and conductive double-network graphene/PVA gel. <i>RSC Advances</i> , 2014, 4, 39588.	3.6	31
14	Superior Low-Temperature Reversible Adhesion Based on Bio-Inspired Microfibrillar Adhesives Fabricated by Phenyl Containing Polydimethylsiloxane Elastomers. <i>Advanced Functional Materials</i> , 2021, 31, 2101143.	14.9	30
15	Synergetic effects of a matrix crystalline structure and chain mobility on the low temperature toughness of polypropylene/ethylene-octene copolymer blends. <i>RSC Advances</i> , 2015, 5, 54488-54496.	3.6	27
16	Enhanced interfacial adhesion via interfacial crystallization between sisal fiber and isotactic polypropylene: direct evidence from single-fiber fragmentation testing. <i>Polymer International</i> , 2014, 63, 646-651.	3.1	19
17	Towards high-performance polypropylene and its random copolymer: Insight into toughening mechanism of supercritical carbon dioxide assisted annealing. <i>Journal of Supercritical Fluids</i> , 2014, 87, 83-92.	3.2	17
18	New piezoelectric damping composites of poly(vinylidene fluoride) blended with clay and multi-walled carbon nanotubes. <i>Polymer International</i> , 2012, 61, 934-938.	3.1	16

#	ARTICLE	IF	CITATIONS
19	Encapsulation of Cyclotetramethylenetetranitramine (HMX) by Electrostatically Self-Assembled Graphene Oxide for Desensitization. Propellants, Explosives, Pyrotechnics, 2017, 42, 1057-1065.	1.6	16
20	Significant reinforcement of poly(propylene carbonate): Nanostructured polymer composites of poly(propylene carbonate)/poly(methyl methacrylate) via a supercritical carbon dioxide route. Journal of Supercritical Fluids, 2013, 82, 200-205.	3.2	10
21	Studying Complex Evolution of Hyperelastic Materials under External Field Stimuli using Artificial Neural Networks with Spatiotemporal Features in a Small-Scale Dataset. Advanced Materials, 2022, 34, e2200908.	21.0	7
22	Effect of supercritical carbon dioxide treatment on structure and mechanical properties of $\beta$ -nucleated polypropylene processed at different temperatures. Polymer Testing, 2017, 60, 211-219.	4.8	5
23	Rheological and mechanical properties of polyphenylene sulfide reinforced with round and rectangle cross-section glass fibers. High Performance Polymers, 2017, 29, 849-856.	1.8	4
24	Chemically stable thioether cross-linked membranes derived from sulfonated poly(arylene ether) Tj ETQq0 0 0 rgBT /Qverlock <sub>2</sub> 10 Tf 50 5	1.8	2