

# Mahdi Abbasi

## List of Publications by Year in descending order

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23  
papers

555  
citations

623734

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677142

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24  
all docs

24  
docs citations

24  
times ranked

643  
citing authors

#	ARTICLE	IF	CITATIONS
1	Large amplitude oscillatory shear flow: Microstructural assessment of polymeric systems. Progress in Polymer Science, 2022, 132, 101580.	24.7	27
2	Quantifying separation energy with a modified Capillary Break-up Extensional Rheometer (CaBER) to study polymer solutions. Soft Materials, 2021, 19, 199-212.	1.7	0
3	Molecular origin of the foam structure in model linear and comb polystyrenes: I. Cell density. Polymer, 2020, 193, 122351.	3.8	3
4	Molecular origin of the foam structure in model linear and comb polystyrenes: II. Volume expansion ratio. Polymer, 2020, 193, 122354.	3.8	5
5	Comb and Bottlebrush Polymers with Superior Rheological and Mechanical Properties. Advanced Materials, 2019, 31, e1806484.	21.0	117
6	Comb Polymers with Triazole Linkages under Thermal and Mechanical Stress. Macromolecules, 2019, 52, 420-431.	4.8	2
7	Influence of molecular structure on the foamability of polypropylene: Linear and extensional rheological fingerprint. Journal of Cellular Plastics, 2018, 54, 515-543.	2.4	27
8	Stability of Diels-Alder photoadducts in macromolecules. Polymer Chemistry, 2018, 9, 3850-3854.	3.9	2
9	The intrinsic mechanical nonlinearity $3Q_0(\%)$ of linear homopolymer melts. AIP Conference Proceedings, 2017, , .	0.4	2
10	Linear and Extensional Rheology of Model Branched Polystyrenes: From Loosely Grafted Combs to Bottlebrushes. Macromolecules, 2017, 50, 5964-5977.	4.8	75
11	Theoretical correlation of linear and non-linear rheological symptoms of long-chain branching in polyethylenes irradiated by electron beam at relatively low doses. Rheologica Acta, 2017, 56, 729-742.	2.4	19
12	Linear and Nonlinear Rheology Combined with Dielectric Spectroscopy of Hybrid Polymer Nanocomposites for Semiconductive Applications. Nanomaterials, 2017, 7, 23.	4.1	31
13	Effect of Carbon-Based Particles on the Mechanical Behavior of Isotactic Poly(propylene)s. Macromolecular Materials and Engineering, 2016, 301, 429-440.	3.6	12
14	Effect of Molecular Weight, Polydispersity, and Monomer of Linear Homopolymer Melts on the Intrinsic Mechanical Nonlinearity $3Q_0(\%)$ in MAOS. Macromolecules, 2016, 49, 3566-3579.	4.8	70
15	Polystyrene comb architectures as model systems for the optimized solution electrospinning of branched polymers. Polymer, 2016, 104, 240-250.	3.8	19
16	ATRP-based polymers with modular ligation points under thermal and thermomechanical stress. Polymer Chemistry, 2015, 6, 2854-2868.	3.9	18
17	Stability of star-shaped RAFT polystyrenes under mechanical and thermal stress. Polymer Chemistry, 2014, 5, 5009-5019.	3.9	20
18	Investigation of the rheological behavior of industrial tubular and autoclave LDPEs under SAOS, LAOS, transient shear, and elongational flows compared with predictions from the MSF theory. Journal of Rheology, 2013, 57, 1693-1714.	2.6	34

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19	Validity of the modified molecular stress function theory to predict the rheological properties of polymer nanocomposites. <i>Journal of Rheology</i> , 2013, 57, 881-899.	2.6	15
20	Precise two-dimensional D-bar reconstructions of human chest and phantom tank via sinc-convolution algorithm. <i>BioMedical Engineering OnLine</i> , 2012, 11, 34.	2.7	2
21	Iterative Sinc <sup>2</sup> convolution method for solving planar D-bar equation with application to EIT. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2012, 28, 838-860.	2.1	4
22	Elongational viscosity of LDPE with various structures: employing a new evolution equation in MSF theory. <i>Rheologica Acta</i> , 2012, 51, 163-177.	2.4	29
23	Control of <i>Penicillium</i> decay on citrus fruit using essential oil vapours of thyme or clove inside polyethylene and nano-clay polyethylene films. <i>Journal of Horticultural Science and Biotechnology</i> , 2009, 84, 403-409.	1.9	17