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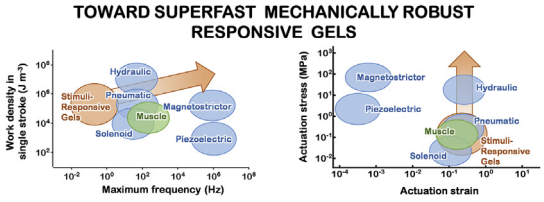
FEATURE ARTICLE

Role of mechanical factors in applications of stimuli-responsive polymer gels – Status and prospects pp. 415–449
Alexander V. Goponenko and Yuris A. Dzenis*



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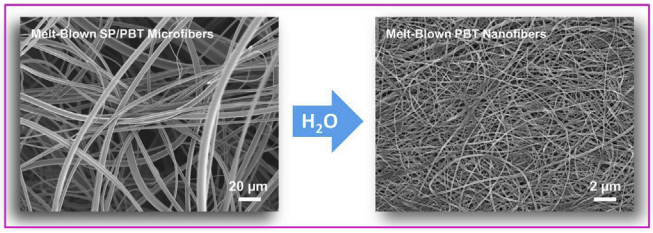
Zaifei Wang, Xiaotun Liu, Christopher W. Macosko* and Frank S. Bates**



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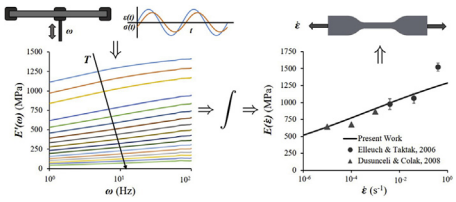
Prediction of strain rate sensitivity of high density polyethylene using integral transform of dynamic mechanical analysis data pp. 1–6
Steven Eric Zeltmann, B.R. Bharath Kumar, Mrityunjay Doddamani and Nikhil Gupta*



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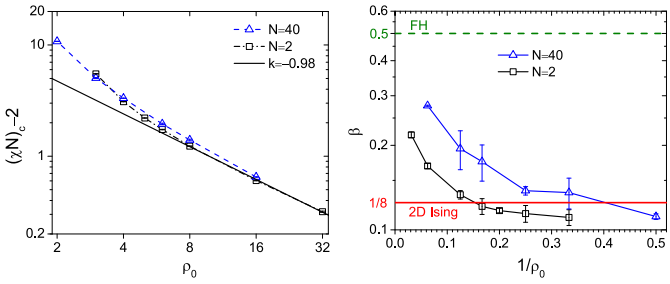
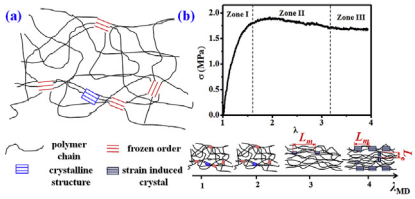
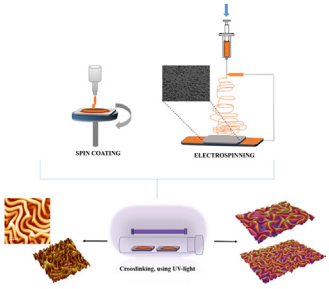
Pengfei Zhang and Qiang Wang*



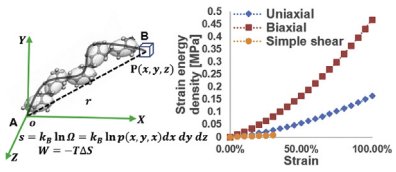
Biaxial stretch-induced crystallization of poly(ethylene terephthalate) above glass transition temperature: The necessary of chain mobility pp. 15–23
Qianlei Zhang, Rui Zhang, Lingpu Meng**, Yuanfei Lin, Xiaowei Chen, Xueyu Li, Wenhua Zhang and Liangbin Li*



Fabrication of micro and sub-micrometer wrinkled hydrogel surfaces through thermal and photocrosslinking processes pp. 24–33
Carmen M. González-Henríquez*, Dallits H. Sagredo-Oyarce, Mauricio A. Sarabia-Vallejos and Juan Rodríguez-Hernández



Multiscale modeling of a natural rubber: Bridging a coarse-grained molecular model to the rubber network theory pp. 34–47
Md Salah Uddin* and Jaehyung Ju



The probability of the other end of a chain is used to find the Boltzmann entropy, which is then employed in the Helmholtz free energy function. This free energy function is predicted from molecular simulations and equated to strain energy density of a natural rubber with multiple modes of deformations for constitutive modeling.

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