

# Polymer Mechanochemistry Springer, 2015 429 pages Roman Boulatov 9783319228259 2015

“Polymer mechanochemistry is in many respects a new science, and one of growing interest. There is clearly a significant need for a new book that would present the many advances in polymer mechanochemistry. This book nicely fills a void in reporting on this growing research area. Summing Up: Recommended. Upper-division undergraduates and above.”

“Polymer mechanochemistry is in many respects a new science, and one of growing interest. There is clearly a significant need for a new book that would present the many advances in polymer mechanochemistry. This book nicely fills a void in reporting on this growing research area. Summing Up: Recommended. Polymer mechanochemistry aims at understanding and exploiting the unique chemistry that is possible when stretching macromolecular chains beyond their strain-free contour lengths. This happens when chains are subject to a mechanical load, in bulk, in solution, at interfaces or as single molecules in air. Simple polymers such as polystyrene or She is the author or coauthor of over 20 monographs, books, and book chapters, including Mechanochemistry of Macromolecular Compounds; Polymers. Theory and Applications; Polymers. Structure and Properties; Polymers Fracture. Notable progress in areas such as solid body resistance, physico-chemical mechanics of materials, colloidal chemistry, polymers physics and chemistry, biophysics, chemical kinetics, theory of Mechanochemistry with metallosupramolecular polymers. @article{Balkenende2014MechanochemistryWM, title={Mechanochemistry with} The transduction of mechanical force into useful chemical reactions is an emerging design approach to impart soft materials with new functions. Here, we report that mechanochemical transductions can be achieved in metallosupramolecular polymers.