

# Thomas C. O'Connor

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6889847/publications.pdf>

Version: 2024-02-01

17  
papers

511  
citations

840585

11  
h-index

887953

17  
g-index

17  
all docs

17  
docs citations

17  
times ranked

577  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | AIREBO-M: A reactive model for hydrocarbons at extreme pressures. <i>Journal of Chemical Physics</i> , 2015, 142, 024903.                               | 1.2 | 159       |
| 2  | Relating Chain Conformations to Extensional Stress in Entangled Polymer Melts. <i>Physical Review Letters</i> , 2018, 121, 047801.                      | 2.9 | 55        |
| 3  | Topological Linking Drives Anomalous Thickening of Ring Polymers in Weak Extensional Flows. <i>Physical Review Letters</i> , 2020, 124, 027801.         | 2.9 | 53        |
| 4  | Chain Ends and the Ultimate Strength of Polyethylene Fibers. <i>ACS Macro Letters</i> , 2016, 5, 263-267.   | 2.3 | 37        |
| 5  | Stress Relaxation in Highly Oriented Melts of Entangled Polymers. <i>Macromolecules</i> , 2019, 52, 8540-8550.  | 2.2 | 37        |
| 6  | Threading and Unthreading Transition of Linear-Ring Polymer Blends in Extensional Flow. <i>ACS Macro Letters</i> , 2020, 9, 1452-1457.                  | 2.3 | 36        |
| 7  | Diffusion of Thin Nanorods in Polymer Melts. <i>Macromolecules</i> , 2021, 54, 7051-7059.   | 2.2 | 20        |
| 8  | Composite entanglement topology and extensional rheology of symmetric ring-linear polymer blends. <i>Journal of Rheology</i> , 2022, 66, 49-65.         | 1.3 | 20        |
| 9  | Molecular origins of anisotropic shock propagation in crystalline and amorphous polyethylene. <i>Physical Review Materials</i> , 2018, 2, .             | 0.9 | 18        |
| 10 | Micromechanical models for the stiffness and strength of UHMWPE microfibrils. <i>Journal of the Mechanics and Physics of Solids</i> , 2018, 116, 70-98. | 2.3 | 17        |
| 11 | Shock-wave propagation and reflection in semicrystalline polyethylene: A molecular-level investigation. <i>Physical Review Materials</i> , 2017, 1, .   | 0.9 | 15        |
| 12 | Superstretchable Elastomer from Cross-linked Ring Polymers. <i>Physical Review Letters</i> , 2022, 128, .   | 2.9 | 13        |
| 13 | A reversible strain-induced electrical conductivity in cup-stacked carbon nanotubes. <i>Nanoscale</i> , 2013, 5, 10212.                                 | 2.8 | 12        |
| 14 | Nonlinear Elongation Flows in Associating Polymer Melts: From Homogeneous to Heterogeneous Flow. <i>Physical Review X</i> , 2022, 12, .                 | 2.8 | 7         |
| 15 | The Bending Mechanics of Aged Paper. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2018, 85, .   | 1.1 | 6         |
| 16 | Molecular models for creep in oriented polyethylene fibers. <i>Journal of Chemical Physics</i> , 2020, 153, 144904.                                     | 1.2 | 5         |
| 17 | O'Connor, Alvarez, and Robbins Reply. <i>Physical Review Letters</i> , 2019, 122, 059804.   | 2.9 | 1         |