

David C Venerus

List of Publications by Year in descending order

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43
papers

989
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430874
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44
times ranked

908
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | The dynamics of parallel-plate and cone-plate flows. <i>Physics of Fluids</i> , 2021, 33, . | 4.0 | 21 |
| 2 | Thermal conductivity of amorphous polymers and its dependence on molecular weight. <i>Polymer</i> , 2021, 228, 123881. | 3.8 | 10 |
| 3 | On using the anisotropy in the thermal resistance of solid-fluid interfaces to more effectively cool nano-electronics. <i>Molecular Simulation</i> , 2020, 46, 162-167. | 2.0 | 1 |
| 4 | Immobilized RGD concentration and proteolytic degradation synergistically enhance vascular sprouting within hydrogel scaffolds of varying modulus. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2020, 31, 324-349. | 3.5 | 10 |
| 5 | Polymer rheology predictions from first principles using the slip-link model. <i>Journal of Rheology</i> , 2020, 64, 1035-1043. | 2.6 | 17 |
| 6 | Characterization of Biodegradable Microsphere-Hydrogel Ocular Drug Delivery System for Controlled and Extended Release of Ranibizumab. <i>Translational Vision Science and Technology</i> , 2019, 8, 12. | 2.2 | 47 |
| 7 | Thermal conductivity of poly(L-Lactic Acid) subjected to elongational deformations. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 547-553. | 2.1 | 4 |
| 8 | Determining the Dilution Exponent for Entangled 1,4-Polybutadienes Using Blends of Near-Monodisperse Star with Unentangled, Low Molecular Weight Linear Polymers. <i>Macromolecules</i> , 2019, 52, 1757-1771. | 4.8 | 8 |
| 9 | Equibiaxial elongational rheology of entangled polystyrene melts. <i>Journal of Rheology</i> , 2019, 63, 157-165. | 2.6 | 5 |
| 10 | Reprocessable Polyhydroxyurethane Network Composites: Effect of Filler Surface Functionality on Cross-link Density Recovery and Stress Relaxation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2398-2407. | 8.0 | 103 |
| 11 | THERMAL TRANSPORT IN CROSS-LINKED ELASTOMERS SUBJECTED TO ELONGATIONAL DEFORMATIONS. <i>Rubber Chemistry and Technology</i> , 2019, 92, 639-652. | 1.2 | 5 |
| 12 | Linear viscoelastic behavior of bidisperse polystyrene blends: experiments and slip-link predictions. <i>Rheologica Acta</i> , 2018, 57, 327-338. | 2.4 | 16 |
| 13 | Evidence of Deformation-Dependent Heat Capacity and Energetic Elasticity in a Cross-Linked Elastomer Subjected to Uniaxial Elongation. <i>Macromolecules</i> , 2018, 51, 589-597. | 4.8 | 6 |
| 14 | Squeeze flows in liquid films bound by porous disks. <i>Journal of Fluid Mechanics</i> , 2018, 855, 860-881. | 3.4 | 7 |
| 15 | Protease-Sensitive Hydrogel Biomaterials with Tunable Modulus and Adhesion Ligand Gradients for 3D Vascular Sprouting. <i>Biomacromolecules</i> , 2018, 19, 4168-4181. | 5.4 | 21 |
| 16 | A novel technique for conducting creep experiments in equibiaxial elongation. <i>Rheologica Acta</i> , 2017, 56, 591-596. | 2.4 | 2 |
| 17 | Tears of wine: new insights on an old phenomenon. <i>Scientific Reports</i> , 2015, 5, 16162. | 3.3 | 48 |
| 18 | Equibiaxial elongational viscosity measurements of commercial polymer melts. <i>Polymer Engineering and Science</i> , 2015, 55, 1012-1017. | 3.1 | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Investigation of Anisotropic Thermal Conductivity in Polymers Using Infrared Thermography. Journal of Heat Transfer, 2014, 136, . | 2.1 | 5 |
| 20 | Thermodynamic approach to interfacial transport phenomena: Single-component systems. AIChE Journal, 2014, 60, 1424-1433. | 3.6 | 9 |
| 21 | Flow field visualization of entangled polybutadiene solutions under nonlinear viscoelastic flow conditions. Journal of Rheology, 2013, 57, 1411-1428. | 2.6 | 57 |
| 22 | Anisotropic thermal conduction in polymer melts in uniaxial elongation flows. Journal of Rheology, 2013, 57, 427-439. | 2.6 | 26 |
| 23 | Anisotropic thermal transport in a crosslinked polyisoprene rubber subjected to uniaxial elongation. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 1638-1644. | 2.1 | 14 |
| 24 | Molecular origins of anisotropy in the thermal conductivity of deformed polymer melts: stress versus orientation contributions. Soft Matter, 2012, 8, 11781. | 2.7 | 21 |
| 25 | Investigation of thermal transport in colloidal silica dispersions (nanofluids). Journal of Nanoparticle Research, 2011, 13, 3075-3083. | 1.9 | 5 |
| 26 | Stress Relaxation in Polymer Melts Following Equibiaxial Step Strain. Macromolecules, 2010, 43, 5874-5880. | 4.8 | 14 |
| 27 | Anisotropic Thermal Conductivity in Cross-Linked Polybutadienes Subjected to Uniaxial Elongation. Macromolecules, 2009, 42, 2594-2598. | 4.8 | 18 |
| 28 | A Continuous Lubricated Squeezing Flow Technique to Study the Rheological Behavior of Polymer Melts in Equibiaxial Elongational Flow. AIP Conference Proceedings, 2008, , . | 0.4 | 0 |
| 29 | Free Surface Effects on Normal Stress Measurements in Cone and Plate Flow. Applied Rheology, 2007, 17, 36494-1-36494-6. | 5.2 | 9 |
| 30 | Laminar capillary flow of compressible viscous fluids. Journal of Fluid Mechanics, 2006, 555, 59. | 3.4 | 34 |
| 31 | Simultaneous stress and birefringence measurements during uniaxial elongation of polystyrene melts with narrow molecular weight distribution. Rheologica Acta, 2005, 45, 83-91. | 2.4 | 77 |
| 32 | Measurements of Flow-Induced Anisotropic Thermal Conduction in a Polyisobutylene Melt Following Step Shear Flow. Macromolecules, 2005, 38, 6210-6215. | 4.8 | 18 |
| 33 | A critical evaluation of step strain flows of entangled linear polymer liquids. Journal of Rheology, 2005, 49, 277-295. | 2.6 | 51 |
| 34 | Anisotropic Thermal Conduction in a Polymer Liquid Subjected to Shear Flow. Physical Review Letters, 2004, 93, 098301. | 7.8 | 28 |
| 35 | Measurement of anisotropic energy transport in flowing polymers by using a holographic technique. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13142-13146. | 7.1 | 23 |
| 36 | Evaluation of rheological constitutive equations for branched polymers in step shear strain flows. Rheologica Acta, 2003, 42, 123-131. | 2.4 | 23 |

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|----|--|-----|-----------|
| 37 | Pomâ€Pom theory evaluation in double-step strain flows. <i>Journal of Rheology</i> , 2003, 47, 413-427. | 2.6 | 15 |
| 38 | Equibiaxial extensional flow of polymer melts via lubricated squeezing flow. I. Experimental analysis. <i>Rheologica Acta</i> , 2000, 39, 444-451. | 2.4 | 43 |
| 39 | Equibiaxial extensional flow of polymer melts via lubricated squeezing flow. II. Flow modeling. <i>Rheologica Acta</i> , 2000, 39, 574-582. | 2.4 | 27 |
| 40 | Relaxation of Anisotropic Thermal Diffusivity in a Polymer Melt Following Step Shear Strain. <i>Physical Review Letters</i> , 1999, 82, 366-369. | 7.8 | 37 |
| 41 | Dynamic Shear Modulus of Tricresyl Phosphate and Squalane. <i>Journal of Physical Chemistry B</i> , 1999, 103, 4066-4070. | 2.6 | 64 |
| 42 | Transport analysis of diffusion-induced bubble growth and collapse in viscous liquids. <i>AIChE Journal</i> , 1997, 43, 2948-2959. | 3.6 | 32 |
| 43 | Diffusion of organic solvents in isobutylene-based polymers. <i>Korean Journal of Chemical Engineering</i> , 1996, 13, 255-260. | 2.7 | 1 |