

David C Venerus

List of Publications by Year in descending order

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43
papers

989
citations

430442

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44
docs citations

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, .	1.6	21
2	Thermal conductivity of amorphous polymers and its dependence on molecular weight. <i>Polymer</i> , 2021, 228, 123881.	1.8	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.	0.9	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.	1.9	10
5	Polymer rheology predictions from first principles using the slip-link model. <i>Journal of Rheology</i> , 2020, 64, 1035-1043.	1.3	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.	1.1	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.	2.4	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.	2.2	8
9	Equibiaxial elongational rheology of entangled polystyrene melts. <i>Journal of Rheology</i> , 2019, 63, 157-165.	1.3	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.	4.0	103
11	THERMAL TRANSPORT IN CROSS-LINKED ELASTOMERS SUBJECTED TO ELONGATIONAL DEFORMATIONS. <i>Rubber Chemistry and Technology</i> , 2019, 92, 639-652.	0.6	5
12	Linear viscoelastic behavior of bidisperse polystyrene blends: experiments and slip-link predictions. <i>Rheologica Acta</i> , 2018, 57, 327-338.	1.1	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.	2.2	6
14	Squeeze flows in liquid films bound by porous disks. <i>Journal of Fluid Mechanics</i> , 2018, 855, 860-881.	1.4	7
15	Protease-Sensitive Hydrogel Biomaterials with Tunable Modulus and Adhesion Ligand Gradients for 3D Vascular Sprouting. <i>Biomacromolecules</i> , 2018, 19, 4168-4181.	2.6	21
16	A novel technique for conducting creep experiments in equibiaxial elongation. <i>Rheologica Acta</i> , 2017, 56, 591-596.	1.1	2
17	Tears of wine: new insights on an old phenomenon. <i>Scientific Reports</i> , 2015, 5, 16162.	1.6	48
18	Equibiaxial elongational viscosity measurements of commercial polymer melts. <i>Polymer Engineering and Science</i> , 2015, 55, 1012-1017.	1.5	7

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19	Investigation of Anisotropic Thermal Conductivity in Polymers Using Infrared Thermography. <i>Journal of Heat Transfer</i> , 2014, 136, .	1.2	5
20	Thermodynamic approach to interfacial transport phenomena: Single-component systems. <i>AIChE Journal</i> , 2014, 60, 1424-1433.	1.8	9
21	Flow field visualization of entangled polybutadiene solutions under nonlinear viscoelastic flow conditions. <i>Journal of Rheology</i> , 2013, 57, 1411-1428.	1.3	57
22	Anisotropic thermal conduction in polymer melts in uniaxial elongation flows. <i>Journal of Rheology</i> , 2013, 57, 427-439.	1.3	26
23	Anisotropic thermal transport in a crosslinked polyisoprene rubber subjected to uniaxial elongation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 1638-1644.	2.4	14
24	Molecular origins of anisotropy in the thermal conductivity of deformed polymer melts: stress versus orientation contributions. <i>Soft Matter</i> , 2012, 8, 11781.	1.2	21
25	Investigation of thermal transport in colloidal silica dispersions (nanofluids). <i>Journal of Nanoparticle Research</i> , 2011, 13, 3075-3083.	0.8	5
26	Stress Relaxation in Polymer Melts Following Equibiaxial Step Strain. <i>Macromolecules</i> , 2010, 43, 5874-5880.	2.2	14
27	Anisotropic Thermal Conductivity in Cross-Linked Polybutadienes Subjected to Uniaxial Elongation. <i>Macromolecules</i> , 2009, 42, 2594-2598.	2.2	18
28	A Continuous Lubricated Squeezing Flow Technique to Study the Rheological Behavior of Polymer Melts in Equibiaxial Elongational Flow. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	0
29	Free Surface Effects on Normal Stress Measurements in Cone and Plate Flow. <i>Applied Rheology</i> , 2007, 17, 36494-1-36494-6.	3.5	9
30	Laminar capillary flow of compressible viscous fluids. <i>Journal of Fluid Mechanics</i> , 2006, 555, 59.	1.4	34
31	Simultaneous stress and birefringence measurements during uniaxial elongation of polystyrene melts with narrow molecular weight distribution. <i>Rheologica Acta</i> , 2005, 45, 83-91.	1.1	77
32	Measurements of Flow-Induced Anisotropic Thermal Conduction in a Polyisobutylene Melt Following Step Shear Flow. <i>Macromolecules</i> , 2005, 38, 6210-6215.	2.2	18
33	A critical evaluation of step strain flows of entangled linear polymer liquids. <i>Journal of Rheology</i> , 2005, 49, 277-295.	1.3	51
34	Anisotropic Thermal Conduction in a Polymer Liquid Subjected to Shear Flow. <i>Physical Review Letters</i> , 2004, 93, 098301.	2.9	28
35	Measurement of anisotropic energy transport in flowing polymers by using a holographic technique. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 13142-13146.	3.3	23
36	Evaluation of rheological constitutive equations for branched polymers in step shear strain flows. <i>Rheologica Acta</i> , 2003, 42, 123-131.	1.1	23

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37	Pomâ€Pom theory evaluation in double-step strain flows. <i>Journal of Rheology</i> , 2003, 47, 413-427.	1.3	15
38	Equibiaxial extensional flow of polymer melts via lubricated squeezing flow. I. Experimental analysis. <i>Rheologica Acta</i> , 2000, 39, 444-451.	1.1	43
39	Equibiaxial extensional flow of polymer melts via lubricated squeezing flow. II. Flow modeling. <i>Rheologica Acta</i> , 2000, 39, 574-582.	1.1	27
40	Relaxation of Anisotropic Thermal Diffusivity in a Polymer Melt Following Step Shear Strain. <i>Physical Review Letters</i> , 1999, 82, 366-369.	2.9	37
41	Dynamic Shear Modulus of Tricresyl Phosphate and Squalane. <i>Journal of Physical Chemistry B</i> , 1999, 103, 4066-4070.	1.2	64
42	Transport analysis of diffusion-induced bubble growth and collapse in viscous liquids. <i>AIChE Journal</i> , 1997, 43, 2948-2959.	1.8	32
43	Diffusion of organic solvents in isobutylene-based polymers. <i>Korean Journal of Chemical Engineering</i> , 1996, 13, 255-260.	1.2	1