

Jules John Magda

List of Publications by Year in descending order

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78
papers

3,078
citations

147801

31
h-index

155660

55
g-index

80
all docs

80
docs citations

80
times ranked

2846
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular dynamics of narrow, liquid-filled pores. <i>Journal of Chemical Physics</i> , 1985, 83, 1888-1901.	3.0	344
2	Molecular dynamics of flow in micropores. <i>Journal of Chemical Physics</i> , 1987, 87, 1733-1750.	3.0	256
3	Adsorption of Globular Proteins at the Air/Water Interface as Measured via Dynamic Surface Tension: Concentration Dependence, Mass-Transfer Considerations, and Adsorption Kinetics. <i>Journal of Colloid and Interface Science</i> , 1995, 173, 16-27.	9.4	214
4	Rheological Properties of Cross-Linked Hyaluronan-Gelatin Hydrogels for Tissue Engineering. <i>Macromolecular Bioscience</i> , 2009, 9, 20-28.	4.1	210
5	A transition occurring in ideal elastic liquids during shear flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1988, 30, 1-19.	2.4	112
6	Shear flows of liquid crystal polymers: measurements of the second normal stress difference and the Doi molecular theory. <i>Macromolecules</i> , 1991, 24, 4460-4468.	4.8	110
7	Coil-stretch transitions in mixed shear and extensional flows of dilute polymer solutions. <i>Macromolecules</i> , 1989, 22, 3004-3010.	4.8	109
8	Molecular alignment of polymer liquid crystals in shear flows. 1. Spectrographic birefringence technique, steady-state orientation, and normal stress behavior in poly(benzyl glutamate) solutions. <i>Macromolecules</i> , 1993, 26, 772-784.	4.8	90
9	Rheology, flow instabilities, and shear-induced diffusion in polystyrene solutions. <i>Macromolecules</i> , 1993, 26, 1696-1706.	4.8	90
10	Polarized Alignment and Surface Immobilization of Microtubules for Kinesin-Powered Nanodevices. <i>Nano Letters</i> , 2001, 1, 277-280.	9.1	81
11	Osmotic swelling pressure response of smart hydrogels suitable for chronically implantable glucose sensors. <i>Sensors and Actuators B: Chemical</i> , 2010, 144, 332-336.	7.8	77
12	Constant-Volume Hydrogel Osmometer: A New Device Concept for Miniature Biosensors. <i>Biomacromolecules</i> , 2002, 3, 1271-1275.	5.4	75
13	Free swelling and confined smart hydrogels for applications in chemomechanical sensors for physiological monitoring. <i>Sensors and Actuators B: Chemical</i> , 2009, 136, 186-195.	7.8	75
14	Deformation-dependent hydrodynamic interaction in flows of dilute polymer solutions. <i>Journal of Chemical Physics</i> , 1988, 89, 2504-2513.	3.0	73
15	Second normal stress difference of a Boger fluid. <i>Polymer</i> , 1991, 32, 2000-2009.	3.8	58
16	Time-Dependent Rheology of a Model Waxy Crude Oil with Relevance to Gelled Pipeline Restart. <i>Energy & Fuels</i> , 2009, 23, 1311-1315.	5.1	56
17	Dimensions of a polymer chain in a mixed solvent. <i>Macromolecules</i> , 1988, 21, 726-732.	4.8	54
18	Fabrication of Highly Uniform Nanoparticles from Recombinant Silk-Elastin-like Protein Polymers for Therapeutic Agent Delivery. <i>ACS Nano</i> , 2011, 5, 5374-5382.	14.6	53

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19	Does N 1 or N 2 control the onset of edge fracture?. <i>Rheologica Acta</i> , 1992, 31, 306-308.	2.4	52
20	Catalase Effects on Glucose-Sensitive Hydrogels. <i>Macromolecules</i> , 2000, 33, 3332-3336.	4.8	50
21	Interfacial Tension of a Nematic Liquid Crystal/Water Interface with Homeotropic Surface Alignment. <i>Langmuir</i> , 2004, 20, 8110-8113.	3.5	48
22	A comparison of fluoroalkyl-derivatized imidazolium:TFSI and alkyl-derivatized imidazolium:TFSI ionic liquids: a molecular dynamics simulation study. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 7064.	2.8	48
23	The transport properties of rod-like particles via molecular dynamics. I. Bulk fluid. <i>Journal of Chemical Physics</i> , 1986, 85, 6674-6685.	3.0	45
24	Hydrogel based sensor arrays (2 μ m ²) with perforated piezoresistive diaphragms for metabolic monitoring (in vitro). <i>Sensors and Actuators B: Chemical</i> , 2010, 145, 807-816.	7.8	43
25	Separation of the effects of pH and polymer concentration on the swelling pressure and elastic modulus of a pH-responsive hydrogel. <i>Polymer</i> , 2006, 47, 7335-7338.	3.8	39
26	Monolithic rheometer plate fabricated using silicon micromachining technology and containing miniature pressure sensors for N1 and N2 measurements. <i>Journal of Rheology</i> , 2003, 47, 1249-1260.	2.6	38
27	Thermodynamic analysis of the selectivity enhancement obtained by using smart hydrogels that are zwitterionic when detecting glucose with boronic acid moieties. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 1363-1371.	7.8	36
28	Flow-induced concentration fluctuations in polymer solutions: Structure/property relationships. <i>Rheologica Acta</i> , 1993, 32, 1-8.	2.4	35
29	Concentrated entangled and semidilute entangled polystyrene solutions and the second normal stress difference. <i>Polymer</i> , 1994, 35, 1187-1194.	3.8	35
30	Comparison of Surfactants Used to Prepare Aqueous Perfluoropentane Emulsions for Pharmaceutical Applications. <i>Langmuir</i> , 2010, 26, 4655-4660.	3.5	35
31	The propagation of pressure in a gelled waxy oil pipeline as studied by particle imaging velocimetry. <i>AIChE Journal</i> , 2012, 58, 302-311.	3.6	35
32	Smart Hydrogel-Based Biochemical Microsensor Array for Medical Diagnostics. <i>Advances in Science and Technology</i> , 0, , .	0.2	33
33	The transport properties of rod-like particles. II. Narrow slit pore. <i>Journal of Chemical Physics</i> , 1988, 88, 1207-1213.	3.0	24
34	Development, fabrication, and characterization of hydrogel based piezoresistive pressure sensors with perforated diaphragms. <i>Sensors and Actuators A: Physical</i> , 2010, 161, 29-38.	4.1	24
35	A comparison of three different methods for measuring both normal stress differences of viscoelastic liquids in torsional rheometers. <i>Rheologica Acta</i> , 2009, 48, 191-200.	2.4	22
36	Structural, mechanical and osmotic properties of injectable hyaluronan-based composite hydrogels. <i>Polymer</i> , 2010, 51, 4424-4430.	3.8	21

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37	Manipulation of the isoelectric point of polyampholytic smart hydrogels in order to increase the range and selectivity of continuous glucose sensors. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1057-1063.	7.8	20
38	Shear-Induced Textures in the Lyotropic Liquid Crystal Poly(γ -benzyl L-glutamate) (PBLG). <i>Macromolecules</i> , 1994, 27, 2784-2788.	4.8	18
39	Piezoresistive pH Microsensors Based on Stimuli-Sensitive Polyelectrolyte Hydrogels Piezoresistive pH-Mikrosensoren auf der Basis stimuli-sensitiver polyelektrolytischer Hydrogele. <i>TM Technisches Messen</i> , 2010, 77, .	0.7	17
40	Low-Cost Microfluidic Sensors with Smart Hydrogel Patterned Arrays Using Electronic Resistive Channel Sensing for Readout. <i>Gels</i> , 2018, 4, 84.	4.5	17
41	Smart Hydrogel Micromechanical Resonators with Ultrasound Readout for Biomedical Sensing. <i>ACS Sensors</i> , 2020, 5, 1882-1889.	7.8	17
42	Temperature-dependent transparency of poly(HPMA-co-DMA) hydrogels: effect of synthesis parameters. <i>Polymer</i> , 2003, 44, 4541-4546.	3.8	16
43	Heterogeneous Organic Gels: Rheology and Restart. <i>Energy & Fuels</i> , 2013, 27, 1762-1771.	5.1	16
44	Measurements of the second normal stress difference for star polymers with highly entangled branches. <i>Macromolecules</i> , 1992, 25, 4744-4750.	4.8	15
45	Evolution of the Pressure Profile during the Gelation and Restart of a Model Waxy Crude Oil. <i>Energy & Fuels</i> , 2013, 27, 1909-1913.	5.1	15
46	Viscoelastic second normal stress difference dominated multiple-stream particle focusing in microfluidic channels. <i>Applied Physics Letters</i> , 2019, 115, 263702.	3.3	14
47	Effect of the Flow Shutdown Temperature on the Gelation of Slurry Flows in a Waxy Oil Pipeline. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 4455-4459.	3.7	13
48	Viscoelastic Particle Focusing and Separation in a Spiral Channel. <i>Micromachines</i> , 2022, 13, 361.	2.9	13
49	Effects of gamma rays and neutron irradiation on the glucose response of boronic acid-containing α - ϵ -smart α -hydrogels. <i>Polymer Degradation and Stability</i> , 2014, 99, 219-222.	5.8	11
50	Unusual pressure profiles and fluctuations during shear flows of liquid crystal polymers. <i>Polymer</i> , 1991, 32, 1794-1796.	3.8	8
51	Hydrogel Gold Nanoparticle Switch. <i>IEEE Electron Device Letters</i> , 2018, 39, 1421-1424.	3.9	6
52	Smart hydrogel based microsensing platform for continuous glucose monitoring. , 2010, 2010, 677-9.		5
53	Implantable Biosensor Arrays Based On Smart Hydrogels And Piezoresistive Sensors For Continuous Metabolic Monitoring. <i>Procedia Engineering</i> , 2011, 25, 1008-1011.	1.2	5
54	Effect of Emulsified Water on Gelled Pipeline Restart of Model Waxy Crude Oil Cold Flows. <i>Energy & Fuels</i> , 2019, 33, 10756-10764.	5.1	5

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55	A Sensor Platform for Smart Hydrogels in Biomedical Applications. Proceedings (mdpi), 2018, 2, .	0.2	4
56	Continuous Hydrogel-Based Glucose Sensors With Reduced pH Interference and Contact-Free Signal Transduction. IEEE Sensors Journal, 2019, 19, 2330-2337.	4.7	4
57	<i>In Vivo</i> Monitoring of Glucose Using Ultrasound-Induced Resonance in Implantable Smart Hydrogel Microstructures. ACS Sensors, 2021, 6, 3587-3595.	7.8	4
58	Low-Frequency Dilational Elasticity of the Nematic 4'-Pentyl-4-biphenylcarbonitrile (5CB)/Water Interface. Langmuir, 2007, 23, 7907-7910.	3.5	3
59	Polypeptide grafted hyaluronan: A self-assembling comb-branched polymer constructed from biological components. European Polymer Journal, 2011, 47, 2022-2027.	5.4	3
60	Remote Microwave and Field-Effect Sensing Techniques for Monitoring Hydrogel Sensor Response. Micromachines, 2018, 9, 526.	2.9	3
61	Micromechanical Resonators for Ultrasound-Based Sensors. ECS Meeting Abstracts, 2020, MA2020-01, 2328-2328.	0.0	3
62	Development and relaxation of orientation in sheared concentrated lyotropic solutions of hydroxypropylcellulose in m-cresol. Polymer, 2003, 44, 1203-1210.	3.8	2
63	In vitro investigations of a pH- and ionic-strength-responsive polyelectrolytic hydrogel using a piezoresistive microsensor. Proceedings of SPIE, 2009, 7287, .	0.8	2
64	The effect of hydrogen bonding on oligoleucine structure in water: A molecular dynamics simulation study. European Polymer Journal, 2010, 46, 2310-2320.	5.4	2
65	Biochemical microsensors on the basis of metabolically sensitive hydrogels. Proceedings of SPIE, 2011, , .	0.8	2
66	Effect of chemical composition on the response of zwitterionic glucose sensitive hydrogels studied by design of experiments. Journal of Applied Polymer Science, 2014, 131, .	2.6	2
67	Metal-Oxide-Hydrogel Field-Effect Sensor. , 2018, , .		2
68	Experimental and Theoretical Investigations of Waxy Crude Oil in Steady and Transient Pipe Flows. Industrial & Engineering Chemistry Research, 2020, 59, 13783-13798.	3.7	2
69	A reliable and easy-to-implement optical characterization method for dynamic and static properties of smart hydrogels. Polymer, 2022, 246, 124713.	3.8	2
70	A novel mesophase formed by top-shaped molecules in the bulk and unsupported thin films: A molecular dynamics study. Journal of Chemical Physics, 2006, 124, 124912.	3.0	1
71	Hydrogel-based piezoresistive biochemical microsensors. Proceedings of SPIE, 2010, , .	0.8	1
72	Effect of temperature changes on the performance of ionic strength biosensors based on hydrogels and pressure sensors. , 2011, 2011, 1855-8.		1

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73	Smart Hydrogels Designed for use in Microfabricated Sensor Arrays. Materials Research Society Symposia Proceedings, 2013, 1570, 1.	0.1	1
74	An Improved Design for Chemomechanical Sensors: A Piezoresistive Pressure Sensor with a Mechanical Boss. Chemosensors, 2013, 1, 33-42.	3.6	1
75	Bio-mimetic synthetic cell hydrogel magnetometer. Bioinspiration and Biomimetics, 2019, 14, 026003.	2.9	1
76	Confined Smart Hydrogels for Applications in Chemomechanical Sensors for Physiological Monitoring. Materials Research Society Symposia Proceedings, 2009, 1234, 1.	0.1	0
77	Time Interval and Continuous Testing of Stimuli Responsive Hydrogels. Materials Research Society Symposia Proceedings, 2014, 1622, 153-159.	0.1	0
78	Evaluating the influence of particle morphology and density on the viscosity and injectability of a novel long-acting local anesthetic suspension. Journal of Biomaterials Applications, 0, , 088532822211064.	2.4	0