Steve R Lustig

List of Publications by Year
in descending order

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38 papers	4,854 citations	394286 19 h-index	315616 38 g-index
41 all docs	41 docs citations	41 times ranked	6392 citing authors

#	Article	IF	Citations
1	Power generation from waste heat: Ionic liquidâ€based absorption cycle versus organic Rankine cycle. AICHE Journal, 2021, 67, e17038.	1.8	2
2	Mechanistic impact of water on polypyridobisimidazole (M5) structure and properties. Polymer International, 2021, 70, 795-802.	1.6	1
3	Modeling Brittle Fractures in Epoxy Nanocomposites Using Extended Finite Element and Cohesive Zone Surface Methods. Polymers, 2021, 13, 3387.	2.0	1
4	Highly Thermostable Dynamic Structures of Polyaramid Two-Dimensional Polymers. Macromolecules, 2021, 54, 1291-1303.	2.2	3
5	Speciation in electrolytes using the COSMO-RS solution model. Fluid Phase Equilibria, 2020, 521, 112717.	1.4	3
6	Hierarchical Mechanisms of Lateral Interactions in High-Performance Fibers. ACS Applied Materials & Interfaces, 2020, 12, 22256-22267.	4.0	16
7	Short Communication: Fructose-Enhanced Antibacterial Activity of Self-Assembled Nano-Peptide Amphiphiles for Treating Antibiotic-Resistant Bacteria . International Journal of Nanomedicine, 2020, Volume 15, 513-519.	3.3	7
8	Effectiveness of Common Fabrics to Block Aqueous Aerosols of Virus-like Nanoparticles. ACS Nano, 2020, 14, 7651-7658.	7.3	100
9	Structureâ€“property relationships of aramid fibers via X-ray scattering and atomic force microscopy. Journal of Materials Science, 2019, 54, 6668-6683.	1.7	19
10	Probing the internal structures of KevlarÂ® fibers and their impacts on mechanical performance. Polymer, 2017, 128, 200-210.	1.8	43
11	Phase Behavior of CO₂ in Roomâ€Temperature Ionic Liquid 1â€Ethylâ€3â€Ethylimidazolium Acetate. ChemPhysChem, 2012, 13, 1806-1817.	1.0	68
12	Reactions of 1,1,2,2-tetrafluoroethyl-N,N-dimethylamine with linear and cyclic 1,3-diketones. Journal of Fluorine Chemistry, 2011, 132, 1198-1206.	0.9	18
13	Long range interactions in nanoscale science. Reviews of Modern Physics, 2010, 82, 1887-1944.	16.4	359
14	Design of Surface Active Soluble Peptide Molecules at the Air/Water Interface. Journal of Physical Chemistry B, 2008, 112, 2970-2980.	1.2	5
15	Reactivity of fluorinated sulfur-containing heterocycles towards nucleophilic and oxidizing reagents. Journal of Fluorine Chemistry, 2007, 128, 1227-1234.	0.9	13
16	Solvation Model Based on Order Parameters and a Fast Sampling Method for the Calculation of the Solvation Free Energies of Peptides. Journal of Physical Chemistry B, 2006, 110, 1476-1484.	1.2	3
17	Ultra-Fast Evaluation of Protein Energies Directly from Sequence. PLoS Computational Biology, 2006, 2, e63.	1.5	37
18	Coarse-Graining Protein Energetics in Sequence Variables. Physical Review Letters, 2005, 95, 148103.	2.9	19

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19	Polymer Diffusion in Semicrystalline Polymers Using Secondary Ion Mass Spectroscopy. Macromolecules, 2004, 37, 2613-2617.	2.2	13
20	Peptides with selective affinity for carbon nanotubes. Nature Materials, 2003, 2, 196-200.	13.3	520
21	DNA-assisted dispersion and separation of carbon nanotubes. Nature Materials, 2003, 2, 338-342.	13.3	2,573
22	Lithographically Cut Single-Walled Carbon Nanotubes:â€‰ Controlling Length Distribution and Introducing End-Group Functionality. Nano Letters, 2003, 3, 1007-1012.	4.5	63
23	Stimuli-Responsive Polymers. 5. Azobenzene Modified Polyaramides Containing Atropisomeric Binaphthyl Linkages:Â Tuning Chiroptical Behavior with Light and Heat. Macromolecules, 2001, 34, 2364-2372.	2.2	55
24	Synthesis of Cyclic Oligoesters and Their Rapid Polymerization to High Molecular Weightâ€. Macromolecules, 2000, 33, 5053-5064.	2.2	41
25	Peak-referenced integral method for size exclusion chromatography and its application to aromatic polyesters. Journal of Chromatography A, 1999, 839, 1-14.	1.8	5
26	Facial Selective Photoreduction of Steroids:Â Role of Zeolites. Journal of the American Chemical Society, 1998, 120, 2480-2481.	6.6	28
27	Microstructure and rheology of polydisperse, charged suspensions. Journal of Chemical Physics, 1996, 104, 9249-9258.	1.2	34
28	Rheology, selfâ€diffusion, and microstructure of charged colloids under simple shear by massively parallel nonequilibrium Brownian dynamics. Journal of Chemical Physics, 1996, 104, 9234-9248.	1.2	72
29	Telescoping Fast Multipole Methods Using Chebyshev Economization. Journal of Computational Physics, 1995, 122, 317-322.	1.9	8
30	Polymer Diffusion in Semicrystalline Polymers. 2. Atactic Polystyrene-d Transport into Atactic and Isotactic Polystyrene. Macromolecules, 1995, 28, 3672-3680.	2.2	11
31	Generation of glass structures for molecular simulations of polymers containing large monomer units: application to polystyrene. Macromolecules, 1993, 26, 7203-7209.	2.2	78
32	Polymer diffusion in semicrystalline polymers. 1. Poly(ether imide)/poly(aryl ether ketone ketone). Macromolecules, 1993, 26, 3885-3894.	2.2	17
33	Polymer mutual diffusion measurements using infrared ATR spectroscopy. Macromolecules, 1992, 25, 5069-5073.	2.2	53
34	Dynamic mechanical properties of polymer-fluid systems: characterization of poly(2-hydroxyethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 32, 3340-3353.	1.8	19
35	Solute diffusion in swollen membranes. IX. Scaling laws for solute diffusion in gels. Journal of Applied Polymer Science, 1988, 36, 735-747.	1.3	231
36	Solute and penetrant diffusion in swellable polymers. VII. A free volume-based model with mechanical relaxation. Journal of Applied Polymer Science, 1987, 33, 533-549.	1.3	51

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37	Solute and penetrant diffusion in swellable polymers. I. Mathematical modeling. Journal of Polymer Science, Part B: Polymer Physics, 1986, 24, 395-408.	2.4	219
38	The Role of Cross-links, Entanglements, and Relaxations of the Macromolecular Carrier in the Diffusional Release of Biologically Active Materials.. Annals of the New York Academy of Sciences, 1985, 446, 26-40.	1.8	44