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	DNA-assisted dispersion and separation of carbon nanotubes. Nature Materials, 2003, 2, 338-342.	13.3	2,573
2	Peptides with selective affinity for carbon nanotubes. Nature Materials, 2003, 2, 196-200.	13.3	520
3	Long range interactions in nanoscale science. Reviews of Modern Physics, 2010, 82, 1887-1944.	16.4	359
4	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
5	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
6	Effectiveness of Common Fabrics to Block Aqueous Aerosols of Virus-like Nanoparticles. ACS Nano, 2020, 14, 7651-7658.	7.3	100
7	Generation of glass structures for molecular simulations of polymers containing large monomer units: application to polystyrene. Macromolecules, 1993, 26, 7203-7209.	2.2	78
8	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
9	Phase Behavior of CO₂ in Roomâ€Temperature Ionic Liquid 1â€Ethylâ€3â€Ethylimidazolium Acetate. ChemPhysChem, 2012, 13, 1806-1817.	1.0	68
10	Lithographically Cut Single-Walled Carbon Nanotubes:â€‰ Controlling Length Distribution and Introducing End-Group Functionality. Nano Letters, 2003, 3, 1007-1012.	4.5	63
11	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
12	Polymer mutual diffusion measurements using infrared ATR spectroscopy. Macromolecules, 1992, 25, 5069-5073.	2.2	53
13	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
14	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
15	Probing the internal structures of KevlarÂ® fibers and their impacts on mechanical performance. Polymer, 2017, 128, 200-210.	1.8	43
16	Synthesis of Cyclic Oligoesters and Their Rapid Polymerization to High Molecular Weightâ€. Macromolecules, 2000, 33, 5053-5064.	2.2	41
17	Ultra-Fast Evaluation of Protein Energies Directly from Sequence. PLoS Computational Biology, 2006, 2, e63.	1.5	37
18	Microstructure and rheology of polydisperse, charged suspensions. Journal of Chemical Physics, 1996, 104, 9249-9258.	1.2	34

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19	Facial Selective Photoreduction of Steroids:Â Role of Zeolites. Journal of the American Chemical Society, 1998, 120, 2480-2481.	6.6	28
20	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
21	Coarse-Graining Protein Energetics in Sequence Variables. Physical Review Letters, 2005, 95, 148103.	2.9	19
22	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
23	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
24	Polymer diffusion in semicrystalline polymers. 1. Poly(ether imide)/poly(aryl ether ketone ketone). Macromolecules, 1993, 26, 3885-3894.	2.2	17
25	Hierarchical Mechanisms of Lateral Interactions in High-Performance Fibers. ACS Applied Materials & Interfaces, 2020, 12, 22256-22267.	4.0	16
26	Polymer Diffusion in Semicrystalline Polymers Using Secondary Ion Mass Spectroscopy. Macromolecules, 2004, 37, 2613-2617.	2.2	13
27	Reactivity of fluorinated sulfur-containing heterocycles towards nucleophilic and oxidizing reagents. Journal of Fluorine Chemistry, 2007, 128, 1227-1234.	0.9	13
28	Polymer Diffusion in Semicrystalline Polymers. 2. Atactic Polystyrene-d Transport into Atactic and Isotactic Polystyrene. Macromolecules, 1995, 28, 3672-3680.	2.2	11
29	Telescoping Fast Multipole Methods Using Chebyshev Economization. Journal of Computational Physics, 1995, 122, 317-322.	1.9	8
30	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
31	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
32	Design of Surface Active Soluble Peptide Molecules at the Air/Water Interface. Journal of Physical Chemistry B, 2008, 112, 2970-2980.	1.2	5
33	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
34	Speciation in electrolytes using the COSMO-RS solution model. Fluid Phase Equilibria, 2020, 521, 112717.	1.4	3
35	Highly Thermostable Dynamic Structures of Polyaramid Two-Dimensional Polymers. Macromolecules, 2021, 54, 1291-1303.	2.2	3
36	Power generation from waste heat: Ionic liquidâ€based absorption cycle versus organic Rankine cycle. AICHE Journal, 2021, 67, e17038.	1.8	2

#	Article	IF	Citations
37	Mechanistic impact of water on polypyridobisimidazole (M5) structure and properties. Polymer International, 2021, 70, 795-802.	1.6	1
38	Modeling Brittle Fractures in Epoxy Nanocomposites Using Extended Finite Element and Cohesive Zone Surface Methods. Polymers, 2021, 13, 3387.	2.0	1