Karl F Freed

List of Publications by Citations

600 papers	19,365 citations	68 h-index	98 g-index
626 ext. papers	20,055 ext. citations	4.1 avg, IF	6.75 L-index

#	Paper	IF	Citations
600	Multiphonon Processes in the Nonradiative Decay of Large Molecules. *Journal of Chemical Physics*, **1970**, 52, 6272-6291	3.9	471
599	Characterization of branching architecture through "universal" ratios of polymer solution properties. *Macromolecules*, **1990**, 23, 4168-4180	5.5	277
598	Statistical coil model of the unfolded state: resolving the reconciliation problem. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 13099-104	11.5	268
597	Effect of monomer structure and compressibility on the properties of multicomponent polymer blends and solutions: 1. Lattice cluster theory of compressible systems. *Macromolecules*, **1991**, 24, 5076-5095	5.5	233
596	Functional Integrals and Polymer Statistics. *Advances in Chemical Physics*, **2007**, 1-128		196
595	Analysis and Evaluation of Ionization Potentials, Electron Affinities, and Excitation Energies by the Equations of Motion Green's Function Method. *Advances in Chemical Physics*, **2007**, 1-69		169
594	Dependence of Radiationless Decay Rates in Polyatomic Molecules upon the Initially Selected Vibronic State: General Theory and Application. *Journal of Chemical Physics*, **1972**, 56, 2309-2328	3.9	168
593	Theory of the Hyperfine Structure of Molecules: Application to 3 States of Diatomic Molecules Intermediate between Hund's Cases (a) and (b). *Journal of Chemical Physics*, **1966**, 45, 4214-4241	3.9	160
592	Polymer viscosity in concentrated solutions. *Journal of Chemical Physics*, **1974**, 61, 3626-3633	3.9	151
591	Helix, sheet, and polyproline II frequencies and strong nearest neighbor effects in a restricted coil library. *Biochemistry*, **2005**, 44, 9691-702	3.2	150
590	Intramolecular vibrational energy redistribution and the time evolution of molecular fluorescence. *Journal of Chemical Physics*, **1980**, 73, 4765-4778	3.9	146
589	Role of molecular structure on the thermodynamic properties of melts, blends, and concentrated polymer solutions: comparison of Monte Carlo simulations with the cluster theory for the lattice model. *Macromolecules*, **1990**, 23, 4803-4819	5.5	140
588	Systematic corrections to Flory Huggins theory: Polymer solvent void systems and binary blend void systems. *Journal of Chemical Physics*, **1988**, 88, 2741-2756	3.9	137
587	Intramolecular perturbations and the quenching of luminescence in small molecules. *Chemical Physics Letters*, **1973**, 18, 470-475	2.5	135
586	Theory of diatomic molecule photodissociation: Electronic angular momentum influence on fragment and fluorescence cross sections. *Journal of Chemical Physics*, **1983**, 79, 6060-6085	3.9	131
585	The glass transition temperature of polymer melts. *Journal of Physical Chemistry B*, **2005**, 109, 21285-92	3.4	130
584	Hydrodynamic theory for vibrational relaxation in liquids. *Physical Review A*, **1977**, 15, 361-371	2.6	127

583	Effect of monomer structure and compressibility on the properties of multicomponent polymer blends and solutions. 2. Application to binary blends. *Macromolecules*, **1991**, 24, 5096-5111	5.5	125
582	Theory of the dynamical viscosity of polymer solutions. *Journal of Chemical Physics*, **1974**, 61, 1189-1202	3.9	121
581	Internal Rotation and the Breakdown of the Adiabatic Approximation: Many-Phonon Radiationless Transitions. *Journal of Chemical Physics*, **1970**, 52, 2460-2473	3.9	119
580	Innovative scattering analysis shows that hydrophobic disordered proteins are expanded in water. *Science*, **2017**, 358, 238-241	33.3	116
579	Effect of monomer structure and compressibility on the properties of multicomponent polymer blends and solutions. 3. Application to deuterated polystyrene [PS(D)]poly(vinyl methyl ether) (PVME) blends. *Macromolecules*, **1991**, 24, 5112-5123	5.5	114
578	Investigations into sequence and conformational dependence of backbone entropy, inter-basin dynamics and the Flory isolated-pair hypothesis for peptides. *Journal of Molecular Biology*, **2003**, 331, 693-711	6.5	113
577	Radiationless transitions in molecules. *Accounts of Chemical Research*, **1978**, 11, 74-80	24.3	112
576	Dissociation processes of polyatomic molecules. *Journal of Chemical Physics*, **1975**, 63, 3382-3397	3.9	111
575	Renormalization and the two-parameter theory. *Macromolecules*, **1984**, 17, 2344-2354	5.5	108
574	Generalized Entropy Theory of Polymer Glass Formation. *Advances in Chemical Physics*, **2008**, 125-222		105
573	Lattice model of living polymerization. I. Basic thermodynamic properties. *Journal of Chemical Physics*, **1999**, 111, 7116-7130	3.9	103
572	Phase equilibria of lattice polymer and solvent: tests of theories against simulations. *Macromolecules*, **1990**, 23, 1181-1191	5.5	103
571	Fragility of glass-forming polymer liquids. *Journal of Physical Chemistry B*, **2005**, 109, 21350-6	3.4	102
570	Positional time correlation function for one-dimensional systems with barrier crossing: Memory function corrections to the optimized Rouse–Zimm approximation. *Journal of Chemical Physics*, **1993**, 98, 564-573	3.9	102
569	Long time dynamics of Met-enkephalin: comparison of explicit and implicit solvent models. *Biophysical Journal*, **2002**, 82, 1791-808	2.9	99
568	Relation of effective interaction parameters for binary blends and diblock copolymers: lattice cluster theory predictions and comparisons with experiment. *Macromolecules*, **1993**, 26, 213-220	5.5	99
567	Radiative Decay of Polyatomic Molecules. *Journal of Chemical Physics*, **1969**, 50, 2916-2927	3.9	97
566	All-atom fast protein folding simulations: the villin headpiece. *Proteins: Structure, Function and Bioinformatics*, **2002**, 49, 439-45	4.2	96

565	Analysis of ab initio effective valence shell Hamiltonian calculations using third order quasidegenerate many-body perturbation theory. *Journal of Chemical Physics*, **1981**, 75, 4507-4524	3.9	96
564	Ab initio study of the trans-butadiene π-valence states using the effective valence shell Hamiltonian method. *Journal of Chemical Physics*, **1992**, 96, 1304-1316	3.9	92
563	Is there a bridge between ab initio and semiempirical theories of valence?. *Accounts of Chemical Research*, **1983**, 16, 137-144	24.3	92
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553	Lattice models of polymer solutions: Monomers occupying several lattice sites. *Journal of Chemical Physics*, **1987**, 87, 7272-7284	3.9	85
552	Application of the entropy theory of glass formation to poly(alpha-olefins). *Journal of Chemical Physics*, **2009**, 131, 114905	3.9	82
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547	Cluster Theory of the Electronic Structure of Disordered Systems. *Physical Review B*, **1971**, 3, 3400-3417	3.3	80
546	Entropy theory of polymer glass formation revisited. I. General formulation. *Journal of Chemical Physics*, **2006**, 124, 64901	3.9	79
545	Theta point (tricritical) region behavior for a polymer chain: Transition to collapse. *Journal of Chemical Physics*, **1984**, 80, 900-924	3.9	79
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543	Rotational distributions from photodissociations. I. Linear triatomic molecules. *Journal of Chemical Physics*, **1979**, 70, 3604-3619	3.9	76
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