Stuart A Rice

List of Publications by Year in Descending Order

1,209 papers	48,920 citations	107 h-index	173 g-index
1,585 ext. papers	50,674 ext. citations	4.5 avg, IF	7.62 L-index

#	Paper	IF	Citations
1209	Interaction between dilute water vapor and dodecane thiol ligated Au nanoparticles: Hydrated structure and pair potential of mean force. *Journal of Chemical Physics*, **2021**, 155, 144902	3.9	0
1208	Data-driven reaction coordinate discovery in overdamped and non-conservative systems: application to optical matter structural isomerization. *Nature Communications*, **2021**, 12, 2548	17.4	2
1207	Free Thiols Regulate the Interactions and Self-Assembly of Thiol-Passivated Metal Nanoparticles. *Nano Letters*, **2021**, 21, 1613-1619	11.5	5
1206	Monitoring local order in the liquid-X interface. *Molecular Physics*, **2021**, 119, e1875076	1.7	1
1205	Optical matter machines: angular momentum conversion by collective modes in optically bound nanoparticle arrays. *Optica*, **2020**, 7, 1341	8.6	8
1204	Pair and many-body interactions between ligated Au nanoparticles. *Journal of Chemical Physics*, **2019**, 150, 044904	3.9	12
1203	Sequential phase transitions and transient structured fluctuations in two-dimensional systems with a high-density Kagome lattice phase. *Journal of Chemical Physics*, **2019**, 151, 244504	3.9	7
1202	The influence of fractional surface coverage on the core-core separation in ordered monolayers of thiol-ligated Au nanoparticles. *Soft Matter*, **2019**, 15, 8800-8807	3.6	6
1201	Controlling the Dynamics and Optical Binding of Nanoparticle Homodimers with Transverse Phase Gradients. *Nano Letters*, **2019**, 19, 897-903	11.5	18
1200	Direct Visualization of Barrier Crossing Dynamics in a Driven Optical Matter System. *ACS Nano*, **2018**, 12, 5168-5175	16.7	10
1199	Transient structured fluctuations in a two-dimensional system with multiple ordered phases. *Journal of Chemical Physics*, **2018**, 149, 034503	3.9	10
1198	Reactive optical matter: light-induced motility in electrodynamically asymmetric nanoscale scatterers. *Light: Science and Applications*, **2018**, 7, 105	16.7	15
1197	A comment on the position dependent diffusion coefficient representation of structural heterogeneity. *Journal of Chemical Physics*, **2018**, 148, 194901	3.9	8
1196	Driven optical matter: Dynamics of electrodynamically coupled nanoparticles in an optical ring vortex. *Physical Review E*, **2017**, 95, 022604	2.4	35
1195	The role of ligands in the mechanical properties of Langmuir nanoparticle films. *Soft Matter*, **2017**, 13, 3125-3133	3.6	16
1194	Colloid-colloid hydrodynamic interaction around a bend in a quasi-one-dimensional channel. *Physical Review E*, **2017**, 96, 012606	2.4	
1193	Controlling Quantum Dynamics with Assisted Adiabatic Processes. *Advances in Chemical Physics*, **2016**, 51-136		5

1192	Thermodynamic Perturbation Theory for Associating Molecules. *Advances in Chemical Physics*, **2016**, 1-47	3
1191	From Coherent to Incoherent Dynamical Control of Open Quantum Systems. *Advances in Chemical Physics*, **2016**, 137-218	1
1190	DISTRIBUTION FUNCTION APPROACH TO THE STABILITY OF FLUID PHASES. *Advances in Chemical Physics*, **2016**, 359-394	1
1189	ENTROPY THEORY OF POLYMER GLASS-FORMATION IN VARIABLE SPATIAL DIMENSION. *Advances in Chemical Physics*, **2016**, 443-497	18
1188	STRUCTURAL ANALYSIS BY X-RAY INTENSITY ANGULAR CROSS CORRELATIONS. *Advances in Chemical Physics*, **2016**, 1-39	8
1187	SPIN RELAXATION IN PHASE SPACE. *Advances in Chemical Physics*, **2016**, 41-275	2
1186	DIFFUSION IN CROWDED SOLUTIONS. *Advances in Chemical Physics*, **2016**, 277-358	3
1185	COARSE-GRAINING WITH THE RELATIVE ENTROPY. *Advances in Chemical Physics*, **2016**, 395-441	38
1184	POLYELECTROLYTE COMPLEXATION. *Advances in Chemical Physics*, **2016**, 499-544	53
1183	Laser Control of Ultrafast Molecular Rotation. *Advances in Chemical Physics*, **2016**, 395-412	4
1182	Path Integrals and Effective Potentials in the Study of Monatomic Fluids at Equilibrium. *Advances in Chemical Physics*, **2016**, 49-158	3
1181	Quantum Dynamics by Partitioning Technique. *Advances in Chemical Physics*, **2016**, 349-394	
1180	Spontaneous Symmetry Breaking in Matter Induced by Degeneracies and Pseudodegeneracies. *Advances in Chemical Physics*, **2016**, 159-208	8
1179	Mean Field Electrostatics Beyond the Point Charge Description. *Advances in Chemical Physics*, **2016**, 209-260	11
1178	First-Passage Processes in Cellular Biology. *Advances in Chemical Physics*, **2016**, 261-306	20
1177	Theoretical Modeling of Vibrational Spectra and Proton Tunneling in Hydrogen-Bonded Systems. *Advances in Chemical Physics*, **2016**, 307-342	4
1176	Toward Coherent Control Around the Quantum-Classical Boundary. *Advances in Chemical Physics*, **2016**, 283-312	
1175	Piecewise Adiabatic Passage in Polarization Optics: an Achromatic Polarization Rotator. *Advances in Chemical Physics*, **2016**, 219-234	0

1174	Photoinduced Bond Cleavage as a Probe of Mode Specificity and Intramolecular Dynamics in Rovibrationally Excited Triatomic to 10 Atom Molecules. *Advances in Chemical Physics*, **2016**, 23-50		
1173	Analytic solution of the Ornstein-Zernike relation for inhomogeneous liquids. *Journal of Chemical Physics*, **2016**, 145, 234508	3.9	2
1172	Effects of Electromagnetic Fields on Molecular Scattering. *Advances in Chemical Physics*, **2016**, 313-348		1
1171	Dynamics of Photochemical Reactions of Organic Carbonyls and their Clusters. *Advances in Chemical Physics*, **2016**, 1-22		
1170	Ultrafast and Efficient Control of Coherent Electron Dynamics via SPODS. *Advances in Chemical Physics*, **2016**, 235-282		3
1169	Fast-forward assisted STIRAP. *Journal of Physical Chemistry A*, **2015**, 119, 3479-87	2.8	52
1168	Selective Vibrational Population Transfer using Combined Stimulated Raman Adiabatic Passage and Counter-Diabatic Fields. *Journal of Physical Chemistry C*, **2015**, 119, 14513-14523	3.8	20
1167	A model study of assisted adiabatic transfer of population in the presence of collisional dephasing. *Journal of Chemical Physics*, **2015**, 142, 244303	3.9	8
1166	Modeling Viral Capsid Assembly. *Advances in Chemical Physics*, **2014**, 155, 1-68		93
1165	Solute Precipitate Nucleation: A Review of Theory and Simulation Advances. *Advances in Chemical Physics*, **2014**, 97-160		28
1164	Construction of Energy Functions for Lattice Heteropolymer Models: Efficient Encodings for Constraint Satisfaction Programming and Quantum Annealing. *Advances in Chemical Physics*, **2014**, 201-244		8
1163	Charges at Aqueous Interfaces: Development of Computational Approaches in Direct Contact with Experiment. *Advances in Chemical Physics*, **2014**, 69-96		1
1162	Water in the Liquid State: A Computational Viewpoint. *Advances in Chemical Physics*, **2014**, 161-200		6
1161	Introduction to Quantum Information and Computation for Chemistry. *Advances in Chemical Physics* , **2014**, 1-38		10
1160	Introduction to Quantum Algorithms for Physics and Chemistry. *Advances in Chemical Physics*, **2014**, 67-106		14
1159	Density Functional Theory and Quantum Computation. *Advances in Chemical Physics*, **2014**, 137-150		
1158	Analytic Time Evolution, Random Phase Approximation, and Green Functions for Matrix Product States. *Advances in Chemical Physics*, **2014**, 179-192		4
1157	Photonic Toolbox for Quantum Simulation. *Advances in Chemical Physics*, **2014**, 229-240		

1156	Review of Decoherence-Free Subspaces, Noiseless Subsystems, and Dynamical Decoupling. *Advances in Chemical Physics*, **2014**, 295-354	41
1155	Vibrational Energy Transfer Through Molecular Chains: An Approach Toward Scalable Information Processing. *Advances in Chemical Physics*, **2014**, 371-402	
1154	Dynamics of Entanglement In One- and Two-Dimensional Spin Systems. *Advances in Chemical Physics*, **2014**, 449-507	1
1153	Tensor Networks for Entanglement Evolution. *Advances in Chemical Physics*, **2014**, 567-580	
1152	Back to The Future: A Roadmap for Quantum Simulation From Vintage Quantum Chemistry. *Advances in Chemical Physics*, **2014**, 39-66	2
1151	Quantum Computing Approach to Nonrelativistic and Relativistic Molecular Energy Calculations. *Advances in Chemical Physics*, **2014**, 107-136	2
1150	Quantum Algorithms for Continuous Problems and Their Applications. *Advances in Chemical Physics*, **2014**, 151-178	1
1149	Few-Qubit Magnetic Resonance Quantum Information Processors: Simulating Chemistry and Physics. *Advances in Chemical Physics*, **2014**, 193-228	3
1148	Progress in Compensating Pulse Sequences for Quantum Computation. *Advances in Chemical Physics*, **2014**, 241-294	19
1147	Functional Subsystems and Strong Correlation in Photosynthetic Light Harvesting. *Advances in Chemical Physics*, **2014**, 355-370	1
1146	Ultracold Molecules: Their Formation and Application to Quantum Computing. *Advances in Chemical Physics*, **2014**, 403-448	2
1145	From Topological Quantum Field Theory to Topological Materials. *Advances in Chemical Physics*, **2014**, 509-566	1
1144	On the Way to a Theory of Solid State Synthesis: Issues and Open Questions. *Advances in Chemical Physics*, **2014**, 123-134	1
1143	Laser Energy Deposition in Nanodroplets and Nuclear Fusion Driven by Coulomb Explosion. *Advances in Chemical Physics*, **2014**, 165-181	
1142	Origins of Life. *Advances in Chemical Physics*, **2014**, 293-313	
1141	Features of Complexity. *Advances in Chemical Physics*, **2014**, 1-18	
1140	Understanding Ultraintense x-ray Interactions with Matter. *Advances in Chemical Physics*, **2014**, 183-194	
1139	Exploring Quantum-Classical Boundary. *Advances in Chemical Physics*, **2014**, 19-24	

1138	On the Emergence of Simple Structures in Complex Phenomena: Concepts and Some Numerical Examples. *Advances in Chemical Physics*, **2014**, 97-118		1
1137	New Types of Complexity in Chemical Kinetics: Intersections, Coincidences, and Special Symmetrical Relationships. *Advances in Chemical Physics*, **2014**, 69-73		1
1136	Opportunities in the Area of Noise in Biological Reaction Networks. *Advances in Chemical Physics*, **2014**, 75-84		
1135	Entropy-Driven Phase Transitions in Colloids: From spheres to anisotropic particles. *Advances in Chemical Physics*, **2014**, 35-71		16
1134	Phase Space Approach to Solving the Schrödinger Equation: Thinking Inside the Box. *Advances in Chemical Physics*, **2014**, 1-34		4
1133	Beyond Molecular Conduction: Optical and Thermal Effects in Molecular Junctions. *Advances in Chemical Physics*, **2014**, 135-158		1
1132	Free Energies of Staging a Scenario and Perpetual Motion Machines of the Third Kind. *Advances in Chemical Physics*, **2014**, 43-56		
1131	Thermal Conductance at the Interface Between Molecules. *Advances in Chemical Physics*, **2014**, 159-163		
1130	The Emergence of Simplicity from Complexity. *Advances in Chemical Physics*, **2014**, 119-122		
1129	Thermodynamic Approach to Chemical Networks. *Advances in Chemical Physics*, **2014**, 85-95		
1128	Elementary Excitations in Ultracold Finite Systems. *Advances in Chemical Physics*, **2014**, 215-246		
1127	Transition from Atoms to Clusters to Condensed Matter. *Advances in Chemical Physics*, **2014**, 25-42		1
1126	Confined Fluids: Structure, Properties and Phase Behavior. *Advances in Chemical Physics*, **2014**, 197-294		7
1125	Sub-Nano Clusters: The Last Frontier of Inorganic Chemistry. *Advances in Chemical Physics*, **2014**, 73-100		1
1124	Finite-Time Thermodynamics Tools to Analyze Dissipative Processes. *Advances in Chemical Physics*, **2014**, 57-67		11
1123	Supercooled Liquids and Glasses by Dielectric Relaxation Spectroscopy. *Advances in Chemical Physics*, **2014**, 101-195		36
1122	Rapid coherent control of population transfer in lattice systems. *Physical Review A*, **2014**, 89,	2.6	20
1121	Divergence of the long-wavelength collective diffusion coefficient in quasi-one- and quasi-two-dimensional colloidal suspensions. *Physical Review E*, **2014**, 89, 022303	2.4	18

1120	On the Kramers Very Low Damping Escape Rate for Point Particles and Classical Spins. *Advances in Chemical Physics*, **2014**, 393-459	1
1119	Theories and Quantum Chemical Calculations of Linear and Sum-Frequency Generation Spectroscopies, and Intramolecular Vibrational Redistribution and Density Matrix Treatment of Ultrafast Dynamics. *Advances in Chemical Physics*, **2014**, 295-391	
1118	On Biomolecular Homochirality as a Quasi-Fossil of the Evolution of Life. *Advances in Chemical Physics*, **2014**, 247-291	5
1117	Time-Dependent Computational Methods for Matter Under Extreme Conditions. *Advances in Chemical Physics*, **2014**, 195-214	
1116	Ab Initio Methodology for Pseudospin Hamiltonians of Anisotropic Magnetic Complexes. *Advances in Chemical Physics*, **2013**, 397-519	28
1115	High-Frequency Dynamics of Liquids Through a Liquid□liquid Transition: The Case of CS. *Advances in Chemical Physics*, **2013**, 101-112	1
1114	Local Fluctuations in Solution: Theory and Applications. *Advances in Chemical Physics*, **2013**, 153, 311-372	17
1113	Similarities of the Collective Interfacial Dynamics of Grain Boundaries and Nanoparticles to Glass-Forming Liquids. *Advances in Chemical Physics*, **2013**, 519-567	3
1112	Amorphous ICES. *Advances in Chemical Physics*, **2013**, 139-173	5
1111	Liquid□liquid Phase Transition in Supercooled Silicon. *Advances in Chemical Physics*, **2013**, 463-517	9
1110	Statistical Mechanical Approach to the Thermodynamic Stability of Clathrate Hydrates. *Advances in Chemical Physics*, **2013**, 421-462	1
1109	Computer Simulations of Liquid Silica: Water-Like Thermodynamic and Dynamic Anomalies, and the Evidence for Polyamorphism. *Advances in Chemical Physics*, **2013**, 373-384	3
1108	Polyamorphism and Liquid□liquid Phase Transitions in Amorphous Silicon and Supercooled Al2O3□Y2O3 Liquids. *Advances in Chemical Physics*, **2013**, 309-353	9
1107	Transport and Dynamics in Supercooled Confined Water. *Advances in Chemical Physics*, **2013**, 203-262	9
1106	Polymorphism in Lattice Models. *Advances in Chemical Physics*, **2013**, 385-398	
1105	The Liquid□liquid Phase Transition, Anomalous Properties, and Glass Behavior of Polymorphic Liquids. *Advances in Chemical Physics*, **2013**, 113-138	5
1104	Water Proton Environment: A New Water Anomaly at Atomic Scale?. *Advances in Chemical Physics*, **2013**, 175-187	
1103	The Stability Limit and other Open Questions on Water at Negative Pressure. *Advances in Chemical Physics*, **2013**, 51-80	15

1102	Electron Spin Resonance Studies of Supercooled Water. *Advances in Chemical Physics*, **2013**, 1-28		1
1101	Longest Relaxation Time of Relaxation Processes for Classical and Quantum Brownian Motion in a Potential: Escape Rate Theory Approach. *Advances in Chemical Physics*, **2013**, 111-309		1
1100	Quantum Dynamical Resonances in Chemical Reactions: From A + BC to Polyatomic Systems. *Advances in Chemical Physics*, **2012**, 1-46		19
1099	Multidimensional Incoherent Time-Resolved Spectroscopy and Complex Kinetics. *Advances in Chemical Physics*, **2012**, 1-102		14
1098	Polymers under Confinement. *Advances in Chemical Physics*, **2012**, 129-196		16
1097	What can Mesoscopic Level IN SITU Observations Teach us About Kinetics and Thermodynamics of Protein Crystallization?. *Advances in Chemical Physics*, **2012**, 223-276		5
1096	Viscoelastic Subdiffusion: Generalized Langevin Equation Approach. *Advances in Chemical Physics*, **2012**, 187-253		89
1095	Efficient and Unbiased Sampling of Biomolecular Systems in the Canonical Ensemble: A Review of Self-Guided Langevin Dynamics. *Advances in Chemical Physics*, **2012**, 150, 255-326		29
1094	Determination of Molecular Orientational Correlations in Disordered Systems from Diffraction Data. *Advances in Chemical Physics*, **2012**, 143-168		3
1093	The Multiscale Coarse-Graining Method. *Advances in Chemical Physics*, **2012**, 47-81		17
1092	Molecular Solvation Dynamics from Inelastic X-Ray Scattering Measurements. *Advances in Chemical Physics*, **2012**, 83-127		
1091	Control of Dynamical Processes in Solution: An Overview and Personal Perspective. *Israel Journal of Chemistry*, **2012**, 52, 384-396	3.4	
1090	Paul Mead Doty (1920-2011). *Nature*, **2012**, 481, 266	50.4	1
1089	Long-range hydrodynamic correlations in quasi-one-dimensional circular and straight geometries. *Physical Review E*, **2012**, 86, 041402	2.4	5
1088	The Ability of Silica to Induce Biomimetic Crystallization of Calcium Carbonate. *Advances in Chemical Physics*, **2012**, 277-307		6
1087	Recent Advances in Studying Mechanical Properties of DNA. *Advances in Chemical Physics*, **2012**, 169-186		3
1086	Complex Multiconfigurational Self-Consistent Field-Based Methods to Investigate Electron-Atom/Molecule Scattering Resonances. *Advances in Chemical Physics*, **2012**, 103-142		7
1085	Hydrogen-Bond Topology and Proton Ordering in Ice and Water Clusters. *Advances in Chemical Physics*, **2011**, 1-74		12

1084	Free Energy Landscapes of Proteins: Insights from Mechanical Probes. *Advances in Chemical Physics*, **2011**, 395-417		1
1083	Single-Molecule FRET of Protein-Folding Dynamics. *Advances in Chemical Physics*, **2011**, 23-48		1
1082	Multidimensional Energy Landscapes in Single-Molecule Biophysics. *Advances in Chemical Physics*, **2011**, 299-327		3
1081	Staring at a Protein: Ensemble and Single-Molecule Investigations on Protein-Folding Dynamics. *Advances in Chemical Physics*, **2011**, 1-22		
1080	Density Matrix Equation for a Bathed Small System and its Application to Molecular Magnets. *Advances in Chemical Physics*, **2011**, 213-277		3
1079	A Fractional Langevin Equation Approach to Diffusion Magnetic Resonance Imaging. *Advances in Chemical Physics*, **2011**, 279-378		1
1078	Control of Quantum Phenomena. *Advances in Chemical Physics*, **2011**, 1-76		11
1077	Statistical Mechanics of Liquids and Fluids in Curved Space. *Advances in Chemical Physics*, **2011**, 251-310		6
1076	Generalized Michaelis–Menten Equation for Conformation-Modulated Monomeric Enzymes. *Advances in Chemical Physics*, **2011**, 329-365		8
1075	Density distribution in the liquid Hg-sapphire interface. *Journal of Physical Chemistry A*, **2011**, 115, 3859-66	2.8	5
1074	Crowded Charges in Ion Channels. *Advances in Chemical Physics*, **2011**, 77-223		34
1073	Maximally random jamming of one-component and binary hard-disk fluids in two dimensions. *Physical Review E*, **2011**, 83, 021120	2.4	17
1072	Molecular Inner-Shell Spectroscopy. ARPIS Technique and its Applications. *Advances in Chemical Physics*, **2011**, 75-126		1
1071	Single-particle diffusion in dense inhomogeneous colloid suspensions in ribbon channels. *Physical Review E*, **2011**, 84, 041403	2.4	6
1070	Force to Unbind Ligand–Receptor Complexes and the Internal Rigidity of Globular Proteins Probed by Single-Molecule Force Spectroscopy. *Advances in Chemical Physics*, **2011**, 71-88		
1069	Recent Advances in Single-Molecule Biophysics with the Use of Atomic Force Microscopy. *Advances in Chemical Physics*, **2011**, 89-132		
1068	Hydrodynamic interactions in ribbon channels: from quasi-one-dimensional to quasi-two-dimensional behavior. *Physical Review E*, **2010**, 82, 031403	2.4	4
1067	Liquid Bilayer and its Simulation. *Advances in Chemical Physics*, **2010**, 157-219		2

1066	Recent Developments in Classical Density Functional Theory. *Advances in Chemical Physics*, **2010**, 1-92		56
1065	Spreading of colloid clusters in a quasi-one-dimensional channel. *Journal of Chemical Physics*, **2010**, 132, 084902	3.9	11
1064	New Advances in Mid-IR Pulse Shaping and its Application to 2D IR Spectroscopy and Ground-State Coherent Control. *Advances in Chemical Physics*, **2009**, 1-28		16
1063	Multiple Amorphous–Amorphous Transitions. *Advances in Chemical Physics*, **2009**, 29-82		22
1062	Structure of quasi-one-dimensional ribbon colloid suspensions. *Physical Review E*, **2009**, 79, 031406	2.4	16
1061	Structure in confined colloid suspensions. *Chemical Physics Letters*, **2009**, 479, 1-13	2.5	44
1060	Nonbonded Interactions in Rubber Elasticity. *Advances in Chemical Physics*, **2009**, 1-27		
1059	Hydration Dynamics and Coupled Water–Protein Fluctuations Probed by Intrinsic Tryptophan. *Advances in Chemical Physics*, **2009**, 83-149		21
1058	Complex Permittivity of ICE Ih and of Liquid Water in Far Infrared: Unified Analytical Theory. *Advances in Chemical Physics*, **2009**, 321-514		
1057	Dynamics of Thermotropic Liquid Crystals Across the Isotropic–Nematic Transition and Their Similarity with Glassy Relaxation in Supercooled Liquids. *Advances in Chemical Physics*, **2009**, 249-319		6
1056	The Electrified Liquid-Liquid Interface. *Advances in Chemical Physics*, **2009**, 153-215		31
1055	Dynamics of Double Photoionization in Molecules and Atoms. *Advances in Chemical Physics*, **2009**, 103-151		19
1054	Local Control Theory: Recent Applications to Energy and Particle Transfer Processes in Molecules. *Advances in Chemical Physics*, **2009**, 29-101		27
1053	The Physics of Ultrathin Solid–Fluid–Solid Films: From Surface Instabilities to Isolated Pockets of Fluid. *Advances in Chemical Physics*, **2009**, 217-247		
1052	Generalized Entropy Theory of Polymer Glass Formation. *Advances in Chemical Physics*, **2008**, 125-222		105
1051	The Chemical Environment of Ionic Liquids: Links Between Liquid Structure, Dynamics, and Solvation. *Advances in Chemical Physics*, **2008**, 85-138		17
1050	Photoelectron Circular Dichroism in Chiral Molecules. *Advances in Chemical Physics*, **2008**, 267-329		56
1049	Nonadiabatic Chemical Dynamics: Comprehension and Control of Dynamics, and Manifestation of Molecular Functions. *Advances in Chemical Physics*, **2008**, 95-212		14

1048	Time-Resolved X-Ray Diffraction from Liquids. *Advances in Chemical Physics*, **2008**, 1-29		4
1047	Recent Advances in the Field of Integral Equation Theories: Bridge Functions and Applications to Classical Fluids. *Advances in Chemical Physics*, **2008**, 1-84		28
1046	A conjecture concerning the symmetries of planar nets and the hard disk freezing transition. *Journal of Physical Chemistry B*, **2008**, 112, 16059-69	3.4	11
1045	Hydrogen Bond Dynamics in Alcohol Clusters. *Advances in Chemical Physics*, **2008**, 1-57		23
1044	Optimal Control Theory for Manipulating Molecular Processes. *Advances in Chemical Physics*, **2008**, 43-94		22
1043	Multiparticle Collision Dynamics: Simulation of Complex Systems on Mesoscales. *Advances in Chemical Physics*, **2008**, 89-146		224
1042	A fortunate life in physical chemistry. *Annual Review of Physical Chemistry*, **2008**, 59, 1-26	15.7	1
1041	The VXH Line Shapes of Centrosymmetric Cyclic Dimers Involving Weak Hydrogen Bonds. *Advances in Chemical Physics*, **2008**, 245-496		18
1040	A density functional theory of one- and two-layer freezing in a confined colloid system. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2008**, 464, 65-81	2.4	7
1039	Diamondoid Molecules. *Advances in Chemical Physics*, **2008**, 207-258		22
1038	Vibrational Line Shapes, Spectral Diffusion, and Hydrogen Bonding in Liquid Water. *Advances in Chemical Physics*, **2008**, 59-103		70
1037	On the consistency, extremal, and global properties of counterdiabatic fields. *Journal of Chemical Physics*, **2008**, 129, 154111	3.9	167
1036	Nonequilibrium Fluctuations in Small Systems: From Physics to Biology. *Advances in Chemical Physics*, **2008**, 31-123		84
1035	The Influence of the Geometric Phase on Reaction Dynamics. *Advances in Chemical Physics*, **2008**, 1-42		9
1034	The Second Law of Nonequilibrium Thermodynamics: How Fast Time Flies. *Advances in Chemical Physics*, **2008**, 1-87		
1033	Time-Dependent Transition State Theory. *Advances in Chemical Physics*, **2008**, 191-238		26
1032	Computational Models of Metabolism: Stability and Regulation in Metabolic Networks. *Advances in Chemical Physics*, **2008**, 105-251		21
1031	Time-Resolved Photoelectron Spectroscopy of Nonadiabatic Dynamics in Polyatomic Molecules. *Advances in Chemical Physics*, **2008**, 497-584		89

1030	Quantum Monodromyand Molecular Spectroscopy. *Advances in Chemical Physics*, **2008**, 39-94		12
1029	Spectroscopy of the Potential Energy Surfaces for C?H and C?O Bond Activation by Transition Metal and Metal Oxide Cations. *Advances in Chemical Physics*, **2008**, 331-373		14
1028	Quantum Dynamics of Chemical Reactions. *Advances in Chemical Physics*, **2008**, 1-38		14
1027	Exploring Multiple Reaction Paths to a Single Product Channel. *Advances in Chemical Physics*, **2008**, 213-265		6
1026	Two-Pathway Excitation as a Coherence Spectroscopy. *Advances in Chemical Physics*, **2008**, 147-189		2
1025	Stabilization of Different Conformers of Weakly Bound Complexes to Access Varying Excited-State Intermolecular Dynamics. *Advances in Chemical Physics*, **2008**, 375-419		18
1024	Electronic Structure Reference Calculations for Designing and Interpreting P and T Violation Experiments. *Advances in Chemical Physics*, **2008**, 239-265		
1023	Counterion Condensation in Nucleic Acid. *Advances in Chemical Physics*, **2008**, 139-176		2
1022	Physicochemical Applications of Scanning Electrochemical Microscopy. *Advances in Chemical Physics* , **2008**, 177-244		4
1021	The Microscopic Quantum Theory of Low Temperature Amorphous Solids. *Advances in Chemical Physics*, **2008**, 95-206		19
1020	Transient ordering in a quasi-two-dimensional liquid near freezing. *Journal of Chemical Physics*, **2008**, 128, 244517	3.9	15
1019	Local Mode Vibrations in Polyatomic Molecules. *Advances in Chemical Physics*, **2007**, 41-179		59
1018	On the Use of Pseudopotentials in the Quantum Theory of Atoms and Molecules. *Advances in Chemical Physics*, **2007**, 283-342		100
1017	Proton Energy Loss Spectroscopy as a State-to-State Probe of Molecular Dynamics. *Advances in Chemical Physics*, **2007**, 553-647		27
1016	The Origin of Hysteresis in Simple Magnetic Systems. *Advances in Chemical Physics*, **2007**, 71-134		4
1015	Theories of Structure–Function Relationships for Bridge-Mediated Electron Transfer Reactions. *Advances in Chemical Physics*, **2007**, 377-452		45
1014	The Redfield Equation in Condensed-Phase Quantum Dynamics. *Advances in Chemical Physics*, **2007**, 77-134		124
1013	Theory of Ultrafast Nonadiabatic Excited-State Processes and their Spectroscopic Detection in Real Time. *Advances in Chemical Physics*, **2007**, 1-169		252

1012	Photophysics of Internal Twisting. *Advances in Chemical Physics*, **2007**, 1-174	173
1011	Surface Plasma Oscillations and Related Surface Effects in Solids. *Advances in Chemical Physics*, **2007**, 265-354	38
1010	The Theoretical Investigation of the Electron Affinity of Chemical Compounds. *Advances in Chemical Physics*, **2007**, 169-221	75
1009	Phase Equilibria in Fluid Mixtures at High Pressures. *Advances in Chemical Physics*, **2007**, 1-42	59
1008	Monte Carlo Sampling for Classical Trajectory Simulations. *Advances in Chemical Physics*, **2007**, 171-201	127
1007	Discrete-Variable Representations and their Utilization. *Advances in Chemical Physics*, **2007**, 263-310	422
1006	An Effective Hamiltonian to Treat Adiabatic and Nonadiabatic Effects in the Rotational and Vibrational Spectra of Diatomic Molecules. *Advances in Chemical Physics*, **2007**, 187-215	23
1005	Microscopic Theories of the Rheology of Stable Colloidal Dispersions. *Advances in Chemical Physics*, **2007**, 399-474	21
1004	Hard Convex Body Fluids. *Advances in Chemical Physics*, **2007**, 1-166	179
1003	Theory and Molecular Models for Water. *Advances in Chemical Physics*, **2007**, 1-101	140
1002	Periodic Surfaces of Prescribed Mean Curvature. *Advances in Chemical Physics*, **2007**, 337-396	40
1001	Surface and Bulk Spectroscopy of A Molecular Crystal: Effect of Relaxation and Thermal or Static Disorder. *Advances in Chemical Physics*, **2007**, 1-253	24
1000	Collective Orientational Relaxation in Dense Dipolar Liquids. *Advances in Chemical Physics*, **2007**, 1-126	157
999	Interplay Between Ultrafast Polar Solvation and Vibrational Dynamics in Electron Transfer Reactions: Role of High-Frequency Vibrational Modes. *Advances in Chemical Physics*, **2007**, 1-80	35
998	Theoretical and Experimental Study of Ultrafast Solvation Dynamics by Transient Four-Photon Spectroscopy. *Advances in Chemical Physics*, **2007**, 191-261	2
997	Solvent Control of Electron Transfer Reactions. *Advances in Chemical Physics*, **2007**, 81-189	32
996	Coherence and Adiabaticity in Ultrafast Electron Transfer. *Advances in Chemical Physics*, **2007**, 263-309	25
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