Stuart A Rice

List of Publications by Citations

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	Multimode Molecular Dynamics Beyond the Born-Oppenheimer Approximation. *Advances in Chemical Physics*, **2007**, 59-246		886
1208	Control of selectivity of chemical reaction via control of wave packet evolution. *Journal of Chemical Physics*, **1985**, 83, 5013-5018	3.9	823
1207	Theoretical Aspects of Ionization Potentials and Photoelectron Spectroscopy: A Green's Function Approach. *Advances in Chemical Physics*, **2007**, 205-344		717
1206	Magnetic Relaxation in Fine-Particle Systems. *Advances in Chemical Physics*, **2007**, 283-494		636
1205	Molecular Fluorescence and Energy Transfer Near Interfaces. *Advances in Chemical Physics*, **2007**, 1-65		613
1204	Classical-Limit Quantum Mechanics and the Theory of Molecular Collisions. *Advances in Chemical Physics*, **2007**, 69-177		610
1203	Coherent pulse sequence induced control of selectivity of reactions: Exact quantum mechanical calculations. *Journal of Chemical Physics*, **1986**, 85, 5805-5820	3.9	590
1202	Fluorescence-detected wave packet interferometry: Time resolved molecular spectroscopy with sequences of femtosecond phase-locked pulses. *Journal of Chemical Physics*, **1991**, 95, 1487-1511	3.9	483
1201	Angle-Resolved Photoemission as a Tool for the Study of Surfaces. *Advances in Chemical Physics*, **2007**, 533-656		450
1200	Adiabatic Population Transfer with Control Fields. *Journal of Physical Chemistry A*, **2003**, 107, 9937-9945	2.8	440
1199	Discrete-Variable Representations and their Utilization. *Advances in Chemical Physics*, **2007**, 263-310		422
1198	Semiclassical theory of Bound States. *Advances in Chemical Physics*, **2007**, 1-61		389
1197	Structure and Dynamics of Simple Microclusters. *Advances in Chemical Physics*, **2007**, 49-135		386
1196	Overtone Frequencies and Intensities in the Local Mode Picture. *Advances in Chemical Physics*, **2007**, 1-58		376
1195	Dynamics of Crystal Growth. *Advances in Chemical Physics*, **2007**, 157-228		368
1194	On the Calculation of Time Correlation Functions. *Advances in Chemical Physics*, **2007**, 63-227		346
1193	Dephasing of Molecular Vibrations in Liquids. *Advances in Chemical Physics*, **2007**, 1-48		342

1192	Active control of the dynamics of atoms and molecules. *Annual Review of Physical Chemistry*, **1997**, 48, 601-41	15.7	314
1191	Inhomogeneous RF Fields: A Versatile Tool for the Study of Processes with Slow Ions. *Advances in Chemical Physics*, **2007**, 1-176		314
1190	Scattering from a classically chaotic repellor. *Journal of Chemical Physics*, **1989**, 90, 2225-2241	3.9	309
1189	Correlation Effects in the Ionization of Molecules: Breakdown of the Molecular Orbital Picture. *Advances in Chemical Physics*, **2007**, 115-159		300
1188	The Molecular Quasi-Species. *Advances in Chemical Physics*, **2007**, 149-263		277
1187	On the Calculation of Autocorrelation Functions of Dynamical Variables. *Journal of Chemical Physics* , **1966**, 45, 1086-1096	3.9	275
1186	Ab Initio Quantum Molecular Dynamics. *Advances in Chemical Physics*, **2002**, 439-512		260
1185	A Critical Assessment of Coupled Cluster Method in Quantum Chemistry. *Advances in Chemical Physics*, **2007**, 1-175		259
1184	Transition Path Sampling. *Advances in Chemical Physics*, **2003**, 1-78		259
1183	Triplet Excitons in Crystals of Aromatic Molecules. *Journal of Chemical Physics*, **1965**, 42, 309-323	3.9	255
1182	Theory of Ultrafast Nonadiabatic Excited-State Processes and their Spectroscopic Detection in Real Time. *Advances in Chemical Physics*, **2007**, 1-169		252
1181	Radiationless Transitions in Photochemistry. *Advances in Photochemistry*, **2007**, 149-309		251
1180	Electron Transfer from Isolated Molecules to Biomolecules. *Advances in Chemical Physics*, **2007**, 35-202		247
1179	Dielectric Constants of Fluid Models: Statistical Mechanical Theory and its Quantitative Implementation. *Advances in Chemical Physics*, **2007**, 183-328		238
1178	Study of the Lifetimes of Individual Vibronic States of the Isolated Benzene Molecule. *Journal of Chemical Physics*, **1971**, 55, 5561-5581	3.9	238
1177	Multiconfigurational Perturbation Theory: Applications in Electronic Spectroscopy. *Advances in Chemical Physics*, **2007**, 219-331		235
1176	Assisted adiabatic passage revisited. *Journal of Physical Chemistry B*, **2005**, 109, 6838-44	3.4	230
1175	Multiparticle Collision Dynamics: Simulation of Complex Systems on Mesoscales. *Advances in Chemical Physics*, **2008**, 89-146		224

1174	Variational Approaches to Vibration-Rotation Spectroscopy for Polyatomic Molecules. *Advances in Chemical Physics*, **2007**, 305-379		215
1173	Theory of Polyelectrolyte Solutions. *Advances in Chemical Physics*, **2007**, 1-66		214
1172	A Consistent Molecular Treatment of Dielectric Phenomena. *Advances in Chemical Physics*, **2007**, 467-566		212
1171	Kinetic Theory of Dense Fluids. X. Measurement and Interpretation of Self-Diffusion in Liquid Ar, Kr, Xe, and CH4. *Journal of Chemical Physics*, **1962**, 36, 2710-2720	3.9	212
1170	Roles of Repulsive and Attractive Forces in Liquids : The Equilibrium Theory of Classical Fluids. *Advances in Chemical Physics*, **2007**, 105-156		211
1169	Direct measurements of constrained brownian motion of an isolated sphere between two walls. *Physical Review E*, **2000**, 62, 3909-19	2.4	209
1168	Classical and Quantum Magnetization Reversal Studied in Nanometer-Sized Particles and Clusters. *Advances in Chemical Physics*, **2007**, 99-190		206
1167	Integral Equation Theories of the Structure, Thermodynamics, and Phase Transitions of Polymer Fluids. *Advances in Chemical Physics*, **2007**, 1-142		200
1166	The Statistical Mechanics of the Electrical Double Layer. *Advances in Chemical Physics*, **2007**, 141-253		197
1165	Functional Integrals and Polymer Statistics. *Advances in Chemical Physics*, **2007**, 1-128		196
1164	Colored Noise in Dynamical Systems. *Advances in Chemical Physics*, **2007**, 239-326		196
1163	Liquids, Glasses, and the Glass Transition: A Free-Volume Approach. *Advances in Chemical Physics*, **2007**, 455-525		194
1162	Study of the Properties of an Excess Electron in Liquid Helium. I. The Nature of the Electron-Helium Interactions. *Journal of Chemical Physics*, **1965**, 43, 2614-2625	3.9	186
1161	On the Excess Electron and Hole Band Structures and Carrier Mobility in Naphthalene, Anthracene, and Several Polyphenyls. *Journal of Chemical Physics*, **1963**, 39, 1683-1697	3.9	185
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1158	Quantum ergodicity and vibrational relaxation in isolated molecules. *Journal of Chemical Physics*, **1974**, 61, 203-223	3.9	174
1157	Photophysics of Internal Twisting. *Advances in Chemical Physics*, **2007**, 1-174		173

1156	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
1155	Self-Consistent-Field Methods for Vibrational Excitations in Polyatomic Systems. *Advances in Chemical Physics*, **2007**, 97-132		168
1154	Localized Excitations in Condensed Ne, Ar, Kr, and Xe. *Journal of Chemical Physics*, **1965**, 42, 4250-4253	3.9	168
1153	On the consistency, extremal, and global properties of counterdiabatic fields. *Journal of Chemical Physics*, **2008**, 129, 154111	3.9	167
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1147	Interaction Potentials and Glass Formation: A Survey of Computer Experiments. *Advances in Chemical Physics*, **2007**, 397-453		151
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1142	Coherent Pulse Sequence Control of Product Formation in Chemical Reactions. *Advances in Chemical Physics*, **2007**, 441-523		145
1141	Spectral Line Shapes in Gases in the Binary-Collision Approximation. *Advances in Chemical Physics*, **2007**, 235-293		141
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