## Jeffrey R Reimers

# List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/75509/jeffrey-r-reimers-publications-by-year.pdf

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

207
papers

7,364
citations

49
h-index

76
g-index

8,075
ext. papers

5.3
avg, IF

L-index

#	Paper	IF	Citations
207	Density functionals with asymptotic-potential corrections are required for the simulation of spectroscopic properties of materials <i>Chemical Science</i> , <b>2022</b> , 13, 1492-1503	9.4	O
206	Silicon - single molecule - silicon circuits Chemical Science, <b>2021</b> , 12, 15870-15881	9.4	1
205	Accurate prediction of the properties of materials using the CAM-B3LYP density functional. <i>Journal of Computational Chemistry</i> , <b>2021</b> , 42, 1486-1497	3.5	11
204	Identifying carbon as the source of visible single-photon emission from hexagonal boron nitride. <i>Nature Materials</i> , <b>2021</b> , 20, 321-328	27	78
203	Spontaneous S-Si bonding of alkanethiols to Si(111)-H: towards Si-molecule-Si circuits. <i>Chemical Science</i> , <b>2020</b> , 11, 5246-5256	9.4	15
202	Single-photon emitters in hexagonal boron nitride: a review of progress. <i>Reports on Progress in Physics</i> , <b>2020</b> , 83, 044501	14.4	52
201	Source code, input data, and sample output concerning the application of multistate density functional theory to the singdoublet and tripdoublet states of the ethylene cation. <i>Data in Brief</i> , <b>2020</b> , 28, 104984	1.2	1
200	Photoluminescence, photophysics, and photochemistry of the VBIdefect in hexagonal boron nitride. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	21
199	Theoretical spectroscopy of the VNNB defect in hexagonal boron nitride. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	8
198	Asymmetry in the Fluorescence and Absorption Spectra of Chlorophyll Pertaining to Exciton Dynamics. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 588289	5	3
197	Covalent Linkages of Molecules and Proteins to Si-H Surfaces Formed by Disulfide Reduction. <i>Langmuir</i> , <b>2020</b> , 36, 14999-15009	4	12
196	Convergence of Defect Energetics Calculations. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 21178-21183	<b>3</b> 3.8	9
195	Edge effects on optically detected magnetic resonance of vacancy defects in hexagonal boron nitride. <i>Communications Physics</i> , <b>2020</b> , 3,	5.4	13
194	Competition between charge migration and charge transfer induced by nuclear motion following core ionization: Model systems and application to Li. <i>Journal of Chemical Physics</i> , <b>2019</b> , 151, 124108	3.9	1
193	Decomposition of Ferrocene on Pt(111) and Its Effect on Molecular Electronic Junctions. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 15569-15574	3.8	3
192	Noel S. Hush. <i>Journal of Physical Chemistry A</i> , <b>2019</b> , 123, 3935-3936	2.8	
191	Noel S. Hush. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 3885-3886	3.4	

190	Bioferroelectric Properties of Glycine Crystals. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 1319-132	246.4	17
189	Multistate density functional theory applied with 3 unpaired electrons in 3 orbitals: The singdoublet and tripdoublet states of the ethylene cation. <i>Chemical Physics Letters</i> , <b>2019</b> , 736, 136803	2.5	14
188	Absorption-emission symmetry breaking and the different origins of vibrational structures of the Q and Q electronic transitions of pheophytin a. <i>Journal of Chemical Physics</i> , <b>2019</b> , 151, 165102	3.9	8
187	Defect states in hexagonal boron nitride: Assignments of observed properties and prediction of properties relevant to quantum computation. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	81
186	Understanding and Calibrating Density-Functional-Theory Calculations Describing the Energy and Spectroscopy of Defect Sites in Hexagonal Boron Nitride. <i>Journal of Chemical Theory and Computation</i> , <b>2018</b> , 14, 1602-1613	6.4	42
185	Understanding non-linear effects from Hill-type dynamics with application to decoding of p53 signaling. <i>Scientific Reports</i> , <b>2018</b> , 8, 2147	4.9	1
184	Polarization effect within a protein crystal: A molecular dynamics simulation study. <i>Chemical Physics Letters</i> , <b>2018</b> , 706, 303-307	2.5	4
183	Molecular quantum cellular automata cell design trade-offs: latching vs. power dissipation. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 17881-17888	3.6	12
182	How Equilibrium Gets Mimicked During Kinetic and Thermodynamic Control in Porphyrin and Phthalocyanine Self-Assembled Monolayers. <i>Langmuir</i> , <b>2018</b> , 34, 18-22	4	2
181	Cyanine platelet single crystals: growth, crystal structure and optical spectra. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 29166-29173	3.6	3
180	Faraday cage screening reveals intrinsic aspects of the van der Waals attraction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E10295-E10302	11.5	9
179	van der Waals forces control ferroelectric-antiferroelectric ordering in CuInPS and CuBiPSe laminar materials. <i>Chemical Science</i> , <b>2018</b> , 9, 7620-7627	9.4	21
178	van der Waals Forces Control the Internal Chemical Structure of Monolayers within the Lamellar Materials CuInP2S6 and CuBiP2Se6. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 22675-22687	3.8	11
177	A new fundamental type of conformational isomerism. <i>Nature Chemistry</i> , <b>2018</b> , 10, 615-624	17.6	22
176	Energy flow in the Photosystem I supercomplex: Comparison of approximative theories with DM-HEOM. <i>Chemical Physics</i> , <b>2018</b> , 515, 262-271	2.3	13
175	Competition of van der Waals and chemical forces on goldBulfur surfaces and nanoparticles.  Nature Reviews Chemistry, 2017, 1,	34.6	72
174	Relating transition-state spectroscopy to standard chemical spectroscopic processes. <i>Chemical Physics Letters</i> , <b>2017</b> , 683, 467-477	2.5	1
173	Diabatic models with transferrable parameters for generalized chemical reactions. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 833, 012014	0.3	Ο

172	Sulfur ligand mediated electrochemistry of gold surfaces and nanoparticles: What, how, and why. <i>Current Opinion in Electrochemistry</i> , <b>2017</b> , 1, 7-15	7.2	26
171	The critical role of the transition-state cusp diameter in understanding adiabatic and non-adiabatic electron transfer. <i>Russian Journal of Electrochemistry</i> , <b>2017</b> , 53, 1042-1053	1.2	2
170	Solving the scalability issue in quantum-based refinement: Q R#1. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2017</b> , 73, 1020-1028	5.5	14
169	Q R: quantum-based refinement. Acta Crystallographica Section D: Structural Biology, <b>2017</b> , 73, 45-52	5.5	21
168	Dipole Order in Halide Perovskites: Polarization and Rashba Band Splittings. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 23045-23054	3.8	39
167	Surface Adsorption <b>2017</b> , 387-416		3
166	Synthetically tuneable biomimetic artificial photosynthetic reaction centres that closely resemble the natural system in purple bacteria. <i>Chemical Science</i> , <b>2016</b> , 7, 6534-6550	9.4	16
165	Problems, successes and challenges for the application of dispersion-corrected density-functional theory combined with dispersion-based implicit solvent models to large-scale hydrophobic self-assembly and polymorphism. <i>Molecular Simulation</i> , <b>2016</b> , 42, 494-510	2	13
164	From Chaos to Order: Chain-Length Dependence of the Free Energy of Formation of Meso-tetraalkylporphyrin Self-Assembled Monolayer Polymorphs. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 1739-1748	3.8	13
163	Challenges facing an understanding of the nature of low-energy excited states in photosynthesis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2016</b> , 1857, 1627-1640	4.6	59
162	Putting David Craig Legacy to Work in Nanotechnology and Biotechnology. <i>Australian Journal of Chemistry</i> , <b>2016</b> , 69, 1331	1.2	2
161	Gold surfaces and nanoparticles are protected by Au(0)-thiyl species and are destroyed when Au(I)-thiolates form. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E1424-33	11.5	83
160	Ultraviolet photodissociation action spectroscopy of the N-pyridinium cation. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 014301	3.9	21
159	A unified diabatic description for electron transfer reactions, isomerization reactions, proton transfer reactions, and aromaticity. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 24598-617	3.6	13
158	Non-adiabatic effects in thermochemistry, spectroscopy and kinetics: the general importance of all three Born-Oppenheimer breakdown corrections. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 24641-	·63·6	32
157	Electron-vibration entanglement in the Born-Oppenheimer description of chemical reactions and spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 24666-82	3.6	22
156	A priori calculations of the free energy of formation from solution of polymorphic self-assembled monolayers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E6101-10	11.5	32
155	Free energies for the coordination of ligands to the magnesium of chlorophyll-a in solvents. <i>Molecular Physics</i> , <b>2015</b> , 113, 1648-1654	1.7	1

### (2012-2015)

154	The Importance of Motions that Accompany Those Occurring Along the Reaction Coordinate. <i>Australian Journal of Chemistry</i> , <b>2015</b> , 68, 1202	1.2	4
153	Intermixed adatom and surface-bound adsorbates in regular self-assembled monolayers of racemic 2-butanethiol on Au(111). <i>ChemPhysChem</i> , <b>2015</b> , 16, 928-32	3.2	18
152	Bond angle variations in XH3 [X = N, P, As, Sb, Bi]: the critical role of Rydberg orbitals exposed using a diabatic state model. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 24618-40	3.6	18
151	Formation of water-chlorophyll clusters in dilute samples of chlorophyll-a in ether at low temperature. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 2323-30	3.6	7
150	An analytical data inversion method for Magnetic Circular Dichroism spectra dominated by the "B-term". <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 2315-22	3.6	7
149	The revised Penrose-Hameroff orchestrated objective-reduction proposal for human consciousness is not scientifically justified: comment on "Consciousness in the universe: a review of the 'Orch OR' theory" by Hameroff and Penrose. <i>Physics of Life Reviews</i> , <b>2014</b> , 11, 101-3; discussion 104-12	2.1	8
148	Recommending Hartree-Fock theory with London-dispersion and basis-set-superposition corrections for the optimization or quantum refinement of protein structures. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 14612-26	3.4	46
147	Controlling the stereochemistry and regularity of butanethiol self-assembled monolayers on au(111). <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 17087-94	16.4	28
146	A multiscale simulation technique for molecular electronics: design of a directed self-assembled molecular n-bit shift register memory device. <i>Nanotechnology</i> , <b>2013</b> , 24, 505202	3.4	1
145	Polymorphism in porphyrin monolayers: the relation between adsorption configuration and molecular conformation. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 12451-8	3.6	17
144	Efficient Methods for the Quantum Chemical Treatment of Protein Structures: The Effects of London-Dispersion and Basis-Set Incompleteness on Peptide and Water-Cluster Geometries. Journal of Chemical Theory and Computation, 2013, 9, 3240-51	6.4	61
143	Assignment of the Q-bands of the chlorophylls: coherence loss via Qx - Qy mixing. <i>Scientific Reports</i> , <b>2013</b> , 3, 2761	4.9	86
142	Toward ab initio refinement of protein X-ray crystal structures: interpreting and correlating structural fluctuations. <i>Theoretical Chemistry Accounts</i> , <b>2012</b> , 131, 1	1.9	7
141	Long-lived long-distance photochemically induced spin-polarized charge separation in P-pyrrolic fused ferrocene-porphyrin-fullerene systems. <i>Chemical Science</i> , <b>2012</b> , 3, 257-269	9.4	80
140	Hydrogen bonding and reactivity of water to azines in their S1 (n,图) electronic excited states in the gas phase and in solution. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 8791-802	3.6	31
139	Challenges for the Accurate Simulation of Anisotropic Charge Mobilities through Organic Molecular Crystals: The IPhase of mer-Tris(8-hydroxyquinolinato)aluminum(III) (Alq3) Crystal. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 14826-14836	3.8	61
138	BIOPHYSCHEM2011: A Joint Meeting of the Australian Society for Biophysics and the RACI Physical Chemistry Division. <i>Australian Journal of Chemistry</i> , <b>2012</b> , 65, 439	1.2	
137	Frequency-based Quantum Computers from a Chemist's Perspective. <i>Australian Journal of Chemistry</i> , <b>2012</b> , 65, 512	1.2	3

136	First Steps Towards Quantum Refinement of Protein X-Ray Structures <b>2012</b> , 87-120		6
135	Toward ab initio refinement of protein X-ray crystal structures: interpreting and correlating structural fluctuations <b>2012</b> , 21-36		
134	SIESTA: A Linear-Scaling Method for Density Functional Calculations <b>2011</b> , 45-75		4
133	Chain-branching control of the atomic structure of alkanethiol-based gold-sulfur interfaces. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 14856-9	16.4	27
132	Self-Consistent-Charge Density Functional Tight-Binding Method: An Efficient Approximation of Density Functional Theory <b>2011</b> , 287-307		5
131	Introduction to Effective Low-Energy Hamiltonians in Condensed Matter Physics and Chemistry <b>2011</b> , 309-366		5
130	Coupled-Cluster Calculations for Large Molecular and Extended Systems <b>2011</b> , 167-200		9
129	Evaluation of Nonlinear Optical Properties of Large Conjugated Molecular Systems by Long-Range-Corrected Density Functional Theory <b>2011</b> , 475-491		
128	MNDO-Like Semiempirical Molecular Orbital Theory and Its Application to Large Systems <b>2011</b> , 259-286	б	18
127	Calculating Molecular Conductance <b>2011</b> , 615-648		O
126	Large-Scale Plane-Wave-Based Density Functional Theory: Formalism, Parallelization, and Applications <b>2011</b> , 77-116		25
125	Principles of Density Functional Theory: Equilibrium and Nonequilibrium Applications <b>2011</b> , 1-44		
124	Interference-induced electron- and hole-conduction asymmetry. <i>Theoretical Chemistry Accounts</i> , <b>2011</b> , 130, 815-828	1.9	4
123	Atomic-Resolution Kinked Structure of an Alkylporphyrin on Highly Ordered Pyrolytic Graphite. Journal of Physical Chemistry Letters, <b>2011</b> , 2, 62-6	6.4	21
122	Peptide ligations accelerated by N-terminal aspartate and glutamate residues. <i>Organic Letters</i> , <b>2011</b> , 13, 4770-3	6.2	19
121	Complexation, computational, magnetic, and structural studies of the Maillard reaction product isomaltol including investigation of an uncommon linteraction with copper(II). <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 1498-505	5.1	16
120	Gold Mining by Alkanethiol Radicals: Vacancies and Pits in the Self-Assembled Monolayers of 1-Propanethiol and 1-Butanethiol on Au(111). <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 10630-10639	3.8	32

SIESTA: Properties and Applications 2011, 367-395 118 1 Demonstration and interpretation of significant asymmetry in the low-resolution and high-resolution Q(y) fluorescence and absorption spectra of bacteriochlorophyll a. Journal of 117 98 3.9 Chemical Physics, **2011**, 134, 024506 Reaction Force and Its Link to Diabatic Analysis: A Unifying Approach to Analyzing Chemical 116 6.4 42 Reactions. Journal of Physical Chemistry Letters, 2010, 1, 2858-2862 Accurate and computationally efficient third-nearest-neighbor tight-binding model for large 115 6 3.3 graphene fragments. Physical Review B, 2010, 81, Chemical analysis of the superatom model for sulfur-stabilized gold nanoparticles. Journal of the 16.4 80 114 American Chemical Society, 2010, 132, 8378-84 Weak, strong, and coherent regimes of Frahlich condensation and their applications to terahertz medicine and quantum consciousness. Proceedings of the National Academy of Sciences of the United 113 74 States of America, **2009**, 106, 4219-24 Scanning Tunneling Microscopic Observation of Adatom-Mediated Motifs on Gold Thiol Self-Assembled Monolayers at High Coverage. *Journal of Physical Chemistry C*, **2009**, 113, 19601-19608 26 112 Evanescent-field spectroscopy using structured optical fibers: detection of charge-transfer at the 16.4 111 24 porphyrin-silica interface. Journal of the American Chemical Society, 2009, 131, 2925-33 Norbornadiene-Based Molecules for Functionalizing The Si(001) Surface. Journal of Physical 3.8 110 4 Chemistry C, 2009, 113, 16094-16103 N-Silylamine Junctions for Molecular Wires to Gold: The Effect of Binding Atom Hybridization on 3.8 109 the Electronic Transmission. Journal of Physical Chemistry C, 2009, 113, 20458-20462 Penrose-Hameroff orchestrated objective-reduction proposal for human consciousness is not 108 2.4 48 biologically feasible. Physical Review E, 2009, 80, 021912 Polymeric di- and discrete trinuclear silver(I) assemblies incorporating gamma-carbon bonded, neutral acetylacetone-imine motifs assembled from racemic and diastereopure 107 10 4.3 N,N'-bis(acetylacetone)cyclohexanediimine units. Dalton Transactions, 2009, 4896-900 Control of the site and potential of reduction and oxidation processes in pi-expanded 106 3.6 23 quinoxalinoporphyrins. Physical Chemistry Chemical Physics, 2008, 10, 515-27 Control of the orbital delocalization and implications for molecular rectification in the radical anions of porphyrins with coplanar 90 degrees and 180 degrees beta, beta'-fused extensions. 105 2.8 27 Journal of Physical Chemistry A, **2008**, 112, 556-70 Two-dimensional, phenanthroline-based, extended Exonjugated molecules for single-molecule 1.8 104 4 conduction. Journal of Physics Condensed Matter, 2008, 20, 295208 Towards a comprehensive model for the electronic and vibrational structure of the Creutz-Taube 103 27 ion. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 15-3 $^{\circ}$ The conduction properties of #diaminoalkanes and hydrazine bridging gold electrodes. Chemical 102 2.5 16 Physics Letters, 2008, 454, 284-288 Control of the site and potential of reduction and oxidation processes in pi-expanded 101 3.6

quinoxalinoporphyrins. Physical Chemistry Chemical Physics, 2008, 10, 268-80

100	Understanding the Chemisorption of 2-Methyl-2-propanethiol on Au(111). <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 10878-10885	3.8	16
99	Photoinduced electron transfer in a beta, beta'-pyrrolic fused ferrocene-(zinc porphyrin)-fullerene. <i>Physical Chemistry Chemical Physics</i> , <b>2007</b> , 9, 5260-6	3.6	71
98	Assignment of the Qy absorption spectrum of photosystem-I from Thermosynechococcus elongatus based on CAM-B3LYP calculations at the PW91-optimized protein structure. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 9923-30	3.4	50
97	Formation of gold-methanethiyl self-assembled monolayers. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 14532-3	16.4	39
96	Models for the Structure and Electronic Transmission of Carbon Nanotubes Covalently Linked by a Molecular Bridge via Amide Couplings. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 3700-3704	3.8	23
95	Quinoxalino[2,3-b']porphyrins behave as pi-expanded porphyrins upon one-electron reduction: broad control of the degree of delocalization through substitution at the macrocycle periphery. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 8762-74	3.4	49
94	Application of the computationally efficient self-consistent-charge density-functional tight-binding method to magnesium-containing molecules. <i>Journal of Physical Chemistry A</i> , <b>2007</b> , 111, 5743-50	2.8	14
93	Successful a priori modeling of CO adsorption on Pt(111) using periodic hybrid density functional theory. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 10402-7	16.4	67
92	Chemisorbed and Physisorbed Structures for 1,10-Phenanthroline and Dipyrido[3,2-a:2[BEt]phenazine on Au(111). <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 17285-17296	3.8	25
91	The lowest singlet (n,pi*) and (pi,pi*) excited states of the hydrogen-bonded complex between water and pyrazine. <i>Journal of Physical Chemistry A</i> , <b>2007</b> , 111, 954-62	2.8	22
90	The Manganite Water Interface. Journal of Physical Chemistry C, 2007, 111, 10427-10437	3.8	12
89	The Green's function density functional tight-binding (gDFTB) method for molecular electronic conduction. <i>Journal of Physical Chemistry A</i> , <b>2007</b> , 111, 5692-702	2.8	28
88	Examination of the Photophysical Processes of Chlorophyll d Leading to a Clarification of Proposed Uphill Energy Transfer Processes in Cells of Acaryochloris marina¶. <i>Photochemistry and Photobiology</i> , <b>2007</b> , 77, 628-637	3.6	О
87	Simulation of the Au(111)[22B) surface reconstruction. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	71
86	A priori method for propensity rules for inelastic electron tunneling spectroscopy of single-molecule conduction. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	77
85	Pressure-induced spectral changes for the special-pair radical cation of the bacterial photosynthetic reaction center. <i>Journal of Chemical Physics</i> , <b>2007</b> , 126, 215102	3.9	10
84	Understanding and Improving Solid-State Polymer/C60-Fullerene Bulk-Heterojunction Solar Cells Using Ternary Porphyrin Blends. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 15415-15426	3.8	68
83	The molecules and methods of chemical, biochemical, and nanoscale electron transfer□ <i>Chemical Physics</i> , <b>2006</b> , 324, 1-2	2.3	1

#### (2004-2006)

1702 3.9	33
ol of 3.9	96
ournal of 3.9	57
ED -360	6
and 6.4	130
etters, <b>2006</b>	38
odobacter al Chemistry 3.4	35
nd <i>Physical</i> 3.4	260
ıring	
Chemical 2.3	4
cited states	32
rimidine. 2.8	13
FPhysical 3.4	75
on the 3.9	141
ng I <i>Physics</i> , 2.3	21
e 3.9	25
nology, 3.4	22
	lof 3.9  Purnal of 3.9  PED 3.60  and 6.4  etters, 2006 11.5  edobacter al Chemistry 3.4  and Physical 2.3  cited states 1.7  rimidine. 2.8  F Physical 3.4  an the 3.9  Pology, Polog

64	Single molecule conductivity: the role of junction-orbital degeneracy in the artificially high currents predicted by ab initio approaches. <i>Journal of Chemical Physics</i> , <b>2004</b> , 121, 6615-27	3.9	26
63	Molecular Electronics: From Basic Chemical Principles to Photosynthesis to Steady-State Through-Molecule Conductivity to Computer Architectures. <i>Australian Journal of Chemistry</i> , <b>2004</b> , 57, 1133	1.2	13
62	Hamiltonian operators including both symmetric and antisymmetric vibrational modes for vibronic coupling and intervalence charge-transfer applications. <i>Chemical Physics</i> , <b>2004</b> , 299, 79-82	2.3	27
61	Flanged nanotube Electrode junctions. <i>Nanotechnology</i> , <b>2004</b> , 15, 1226-1232	3.4	5
60	Explanation of the Anomalous Complexation of Silver(I) with Ammonia in Terms of the Poor Affinity of the Ion for Water. <i>Journal of Physical Chemistry A</i> , <b>2004</b> , 108, 8434-8438	2.8	17
59	A unified description of the electrochemical, charge distribution, and spectroscopic properties of the special-pair radical cation in bacterial photosynthesis. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 4132-44	16.4	67
58	Electronic Couplings and Energy Transfer Dynamics in the Oxidized Primary Electron Donor of the Bacterial Reaction Center. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 1753-1765	3.4	40
57	Wavepacket propagation using time-sliced semiclassical initial value methods. <i>Journal of Chemical Physics</i> , <b>2004</b> , 121, 12208-16	3.9	2
56	Examination of the photophysical processes of chlorophyll d leading to a clarification of proposed uphill energy transfer processes in cells of Acaryochloris marinas. <i>Photochemistry and Photobiology</i> , <b>2003</b> , 77, 628-37	3.6	24
55	The appropriateness of density-functional theory for the calculation of molecular electronics properties. <i>Annals of the New York Academy of Sciences</i> , <b>2003</b> , 1006, 235-51	6.5	100
54	Inter-porphyrin coupling: rotation-modulation of inter-ring coupling in a Ebxo-silicon phthalocyanine dimer. <i>Chemical Physics Letters</i> , <b>2003</b> , 378, 654-659	2.5	12
53	Singlet and Triplet Valence Excited States of Pyrimidine. <i>Journal of Physical Chemistry A</i> , <b>2003</b> , 107, 30	93238106	5 42
52	Synthesis and physical properties of biquinoxalinyl bridged bis-porphyrins: models for aspects of photosynthetic reaction centres. <i>Organic and Biomolecular Chemistry</i> , <b>2003</b> , 1, 2777-87	3.9	39
51	Modeling the adsorption of norbornadiene on the Si(001) surface: The predominance of non-[2+2]-cycloaddition products. <i>Journal of Chemical Physics</i> , <b>2003</b> , 119, 1115-1126	3.9	11
50	Modelling the bacterial photosynthetic reaction center. V. Assignment of the electronic transition observed at 2200 cma in the special-pair radical-cation as a second-highest occupied molecular orbital to highest occupied molecular orbital transition. <i>Journal of Chemical Physics</i> , <b>2003</b> , 119, 3240-3	3.9 <b>248</b>	21
49	Modeling the bacterial photosynthetic reaction center. VII. Full simulation of the intervalence hole <b>l</b> ransfer absorption spectrum of the special-pair radical cation. <i>Journal of Chemical Physics</i> , <b>2003</b> , 119, 3262-3277	3.9	36
48	Modelling the bacterial photosynthetic reaction center. VI. Use of density-functional theory to determine the nature of the vibronic coupling between the four lowest-energy electronic states of the special-pair radical cation. <i>Journal of Chemical Physics</i> , <b>2003</b> , 119, 3249-3261	3.9	20
47	An atomistic approach to conduction between nanoelectrodes through a single molecule. <i>Annals of the New York Academy of Sciences</i> , <b>2002</b> , 960, 100-30	6.5	11

46	INDO/S parameters for gold. International Journal of Quantum Chemistry, 2002, 90, 424-438	2.1	19
45	Binding to gold(0): Accurate computational methods with application to AuNH3. <i>Journal of Chemical Physics</i> , <b>2002</b> , 116, 10277-10286	3.9	52
44	Inter-porphyrin coupling: how strong should it be for molecular electronics applications?. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2002</b> , 06, 795-805	1.8	49
43	Switchable electronic coupling in model oligoporphyrin molecular wires examined through the measurement and assignment of electronic absorption spectra. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 9299-309	16.4	96
42	Adsorption of Pyridine on the Gold(111) Surface: Implications for Alligator ClipsIfor Molecular Wires. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 6740-6747	3.4	101
41	Failure of density-functional theory and time-dependent density-functional theory for large extended Bystems. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 5543-5549	3.9	287
40	The First Singlet (n,图) and (图) Excited States of the Hydrogen-Bonded Complex between Water and Pyridine. <i>Journal of Physical Chemistry A</i> , <b>2002</b> , 106, 8769-8778	2.8	62
39	Adsorption of ammonia on the gold (111) surface. <i>Journal of Chemical Physics</i> , <b>2002</b> , 116, 8981-8987	3.9	103
38	Macrocyclic ligand design. X-Ray, DFT and solution studies of the effect of N-methylation and N-benzylation of 1,4,10,13-tetraoxa-7,16-diazacyclooctadecane on its affinity for selected transition and post-transition metal ions. <i>Dalton Transactions RSC</i> , <b>2001</b> , 614-620		56
37	A practical method for the use of curvilinear coordinates in calculations of normal-mode-projected displacements and Duschinsky rotation matrices for large molecules. <i>Journal of Chemical Physics</i> , <b>2001</b> , 115, 9103-9109	3.9	430
36	The Need for Quantum-Mechanical Treatment of Capacitance and Related Properties of Nanoelectrodes. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 8979-8988	3.4	23
35	Modeling the bacterial photosynthetic reaction center. 4. The structural, electrochemical, and hydrogen-bonding properties of 22 mutants of Rhodobacter sphaeroides. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 8550-63	16.4	48
34	The Effect of Alkylation of N- and O-Donor Atoms on Their Strength of Coordination to Silver(I). <i>Journal of Physical Chemistry A</i> , <b>2001</b> , 105, 6567-6574	2.8	28
33	Nature of the special-pair radical cation in bacterial photosynthesis. <i>International Journal of Quantum Chemistry</i> , <b>2000</b> , 80, 1224-1243	2.1	22
32	Application of time-dependent density-functional theory to the 3DIFirst excited state of H2. <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 527-530	3.9	49
31	Time-dependent density-functional determination of arbitrary singlet and triplet excited-state potential energy surfaces: Application to the water molecule. <i>Journal of Chemical Physics</i> , <b>2000</b> , 113, 7084-7096	3.9	58
30	Formalism, analytical model, and a priori Green\( \text{B-function-based calculations of the current\( \text{Doltage characteristics of molecular wires. } \) Journal of Chemical Physics, \( \text{2000}, 112, 1510-1521 \)	3.9	251
29	The Low-Lying Excited States of Pyridine. <i>Journal of Physical Chemistry A</i> , <b>2000</b> , 104, 8389-8408	2.8	105

28	Modeling the bacterial photosynthetic reaction center 3: interpretation of effects of site-directed mutagenesis on the special-pair midpoint potential. <i>Biochemistry</i> , <b>2000</b> , 39, 16185-9	3.2	26
27	Solvent effects on the electronic spectra of transition metal complexes. <i>Chemical Reviews</i> , <b>2000</b> , 100, 775-86	68.1	83
26	Tautomerization of Nucleobase Model Compounds: The 4-Pyridinol and 4(1H)-Pyridinone Monomers and Their Dimers. <i>Journal of Physical Chemistry A</i> , <b>2000</b> , 104, 5087-5092	2.8	6
25	Vibrational Stark Spectroscopy 3. Accurate Benchmark ab Initio and Density Functional Calculations for CO and CN <i>Journal of Physical Chemistry A</i> , <b>1999</b> , 103, 10580-10587	2.8	34
24	The Solvation of Acetonitrile. Journal of the American Chemical Society, 1999, 121, 3730-3744	16.4	216
23	Modeling the Bacterial Photosynthetic Reaction Center. 2. A Combined Quantum Mechanical/Molecular Mechanical Study of the Structure of the Cofactors in the Reaction Centers of Purple Bacteria. <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 4906-4915	3.4	47
22	Ab Initio and Density Functional Calculations of the Energies of the Singlet and Triplet Valence Excited States of Pyrazine. <i>Journal of Physical Chemistry A</i> , <b>1999</b> , 103, 9821-9829	2.8	45
21	Nature of Nonbonding Molecular Orbitals: Application to Two Symmetric Tetraazanaphthalenes. Journal of Physical Chemistry A, <b>1999</b> , 103, 3089-3096	2.8	6
20	Ab Initio and Density-Functional Calculations of the Vibrational Structure of the Singlet and Triplet Excited States of Pyrazine. <i>Journal of Physical Chemistry A</i> , <b>1999</b> , 103, 9830-9841	2.8	58
19	Electron and Energy Transfer through Bridged Systems. 9. Toward a Priori Evaluation of the Intermetallic Coupling in Bis-metal Complexes. <i>Journal of Physical Chemistry A</i> , <b>1999</b> , 103, 3066-3072	2.8	18
18	Rigid Fused Oligoporphyrins as Potential Versatile Molecular Wires. 2. B3LYP and SCF Calculated Geometric and Electronic Properties of 98 Oligoporphyrin and Related Molecules. <i>Journal of Physical Chemistry A</i> , <b>1999</b> , 103, 4385-4397	2.8	74
17	The spectroscopy of the low-lying bands in the special-pair radical-cations of photosynthetic reaction centres. <i>Photosynthesis Research</i> , <b>1998</b> , 55, 163-171	3.7	14
16	Optimization and Chemical Control of Porphyrin-Based Molecular Wires and Switches. <i>Annals of the New York Academy of Sciences</i> , <b>1998</b> , 852, 1-21	6.5	46
15	Chemical Control of Tautomerization-Based Molecular Electronic and Color Switches. <i>Annals of the New York Academy of Sciences</i> , <b>1998</b> , 852, 38-53	6.5	7
14	Modeling the Bacterial Photosynthetic Reaction Center. 1. Magnesium Parameters for the Semiempirical AM1 Method Developed Using a Genetic Algorithm. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 8080-8090	3.4	52
13	The Basics of Covalent Bonding. <i>Journal of Chemical Education</i> , <b>1997</b> , 74, 1503	2.4	1
12	The Mechanism of Covalent Bonding. <i>Journal of Chemical Education</i> , <b>1997</b> , 74, 1494	2.4	36
11	Reply to Comment on Bolvent Effects on the Electronic Spectrum of C600 <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 5604-5604		3

#### LIST OF PUBLICATIONS

10	Odd Polyene and Symmetrical Polymethine Cyanine (Brooker) Ions and T - Polyacetylene: Scf and Model Hamiltonian Approaches with Implications For Molecular Wires and Switches. <i>Molecular</i>		9
9	Crystals and Liquid Crystals, 1993, 234, 51-57 Electron and energy transfer through bridged systems. 6. Molecular switches: the critical field in electric field activated bistable molecules. <i>Journal of the American Chemical Society</i> , 1990, 112, 4192-41	976.4	78
8	On the relationship between the classical, semiclassical, and quantum dynamics of a Morse oscillator. <i>The Journal of Physical Chemistry</i> , <b>1988</b> , 92, 3225-3235		12
7	Classical and semiclassical approximations for incoherent neutron scattering. <i>Physical Review A</i> , <b>1987</b> , 36, 2613-2627	2.6	28
6	Dynamics of the A + BC reaction in solution. <i>Chemical Physics Letters</i> , <b>1986</b> , 123, 394-398	2.5	26
5	Molecular dynamics of the A+BC reaction in rare gas solution. <i>Journal of Chemical Physics</i> , <b>1986</b> , 85, 562	25 <del>3.</del> 5964	3 126
4	The exact thermal rotational spectrum of a two-dimensional rigid rotor obtained using Gaussian wave packet dynamics. <i>Journal of Chemical Physics</i> , <b>1985</b> , 83, 516-520	3.9	5
3	The exact eigenfunctions and eigenvalues of a two-dimensional rigid rotor obtained using Gaussian wave packet dynamics. <i>Journal of Chemical Physics</i> , <b>1985</b> , 83, 511-515	3.9	17
2	CASSCF-wave packet ab initio prediction of electronic and vibrational spectra: Application to the A(2 $\mathbb{I}$ <- X(2 $\mathbb{H}$ ) absorption of C2H at 3000 K. <i>Journal of Chemical Physics</i> , <b>1985</b> , 82, 5064-5077	3.9	28
1	Complex time dependent wave packet technique for thermal equilibrium systems: Electronic spectra. <i>Journal of Chemical Physics</i> , <b>1983</b> , 79, 4749-4757	3.9	64