Regina de Vivie-Riedle

List of Publications by Year
in descending order

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184	6,699	57758	74163
papers	citations	44 h-index	75 g-index

196	196	196	4235
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photochemical Ring Contraction of 5,5-Dialkylcyclopent-2-enones and in situ Trapping by Primary Amines. Journal of Organic Chemistry, 2023, 88, 6294-6303.	3.2	4
2	Dielsâ€“Alder Reaction of Photochemically Generated (E)-Cyclohept-2-enones: Diene Scope, Reaction Pathway, and Synthetic Application. Journal of Organic Chemistry, 2022, 87, 4838-4851.	3.2	9
3	Activation of 2â€Cyclohexenone by BF 3 Coordination: Mechanistic Insights from Theory and Experiment. Angewandte Chemie, 2021, 133, 10243-10251.	2.0	5
4	Activation of 2â€Cyclohexenone by BF 3 Coordination: Mechanistic Insights from Theory and Experiment. Angewandte Chemie - International Edition, 2021, 60, 10155-10163.	13.8	15
5	Coupled nuclear and electron dynamics in the vicinity of a conical intersection. Journal of Chemical Physics, 2021, 154, 134306.	3.0	12
6	Photo-Induced Coupled Nuclear and Electron Dynamics in the Nucleobase Uracil. Frontiers in Physics, 2021, 9, .	2.1	5
7	Ultrafast strong-field dissociation of vinyl bromide: An attosecond transient absorption spectroscopy and non-adiabatic molecular dynamics study. Structural Dynamics, 2021, 8, 034104.	2.3	8
8	Electronic and Geometric Characterization of TICT Formation in Hemithioindigo Photoswitches by Picosecond Infrared Spectroscopy. Journal of Physical Chemistry A, 2021, 125, 4390-4400.	2.5	9
9	H₂ Evolution from Electrocatalysts with Redox-Active Ligands: Mechanistic Insights from Theory and Experiment vis-Ã-vis Co-Mabiq. Inorganic Chemistry, 2021, 60, 13888-13902.	4.0	7
10	Electroâ€mediated PhotoRedox Catalysis for Selective C(sp³)â€“O Cleavages of Phosphinated Alcohols to Carbanions. Angewandte Chemie - International Edition, 2021, 60, 20817-20825.	13.8	81
11	Electroâ€mediated PhotoRedox Catalysis for Selective C(sp 3)â€“O Cleavages of Phosphinated Alcohols to Carbanions. Angewandte Chemie, 2021, 133, 20985-20993.	2.0	18
12	Stereoselective Csp 3 â^'Csp 2 Crossâ€Couplings of Chiral Secondary Alkylzinc Reagents with Alkenyl and Aryl Halides. Angewandte Chemie - International Edition, 2020, 59, 320-324.	13.8	17
13	Stereoselektive C(sp 3)â€C(sp 2)â€Kreuzkupplungen von chiralen sekundÃren Alkylzinkreagenzien mit Alkenylâ€und Arylhalogeniden. Angewandte Chemie, 2020, 132, 328-332.	2.0	4
14	Multiscale Conformational Sampling Reveals Excited-State Locality in DNA Self-Repair Mechanism. Journal of Physical Chemistry A, 2020, 124, 9133-9140.	2.5	6
15	Visualizing conical intersection passages via vibronic coherence maps generated by stimulated ultrafast X-ray Raman signals. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24069-24075.	7.1	44
16	Photoprotecting Uracil by Coupling with Lossy Nanocavities. Journal of Physical Chemistry Letters, 2020, 11, 8810-8818.	4.6	47
17	Waveform control of molecular dynamics close to a conical intersection. Journal of Chemical Physics, 2020, 153, 224307.	3.0	12
18	Regio- and diastereoselective reactions of chiral secondary alkylcopper reagents with propargylic phosphates: preparation of chiral allenes. Chemical Science, 2020, 11, 5328-5332.	7.4	8

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19	Ultrafast Conical Intersection Dynamics Monitored Through Electronic Coherences by Stimulated X-Ray Raman Signals. , 2020, , .		0
20	Theoretical Quantum Control of Fluctuating Molecular Energy Levels in Complex Chemical Environments. Advanced Quantum Technologies, 2019, 2, 1800099.	3.9	1
21	Ultrafast Photorelaxation of Uracil Embedded in an RNA Strand. EPJ Web of Conferences, 2019, 205, 10002.	0.3	0
22	Simulation of time-dependent ionization processes in acetylene. EPJ Web of Conferences, 2019, 205, 09023.	0.3	0
23	Observation of Ultrafast Dynamics in CO2 Highly Excited States. , 2019, , .		0
24	Using an Autoencoder for Dimensionality Reduction in Quantum Dynamics. Lecture Notes in Computer Science, 2019, , 783-787.	1.3	0
25	Ultrafast Reactive Quantum Dynamics Coupled to Classical Solvent Dynamics Using an Ehrenfest Approach. Journal of Physical Chemistry A, 2018, 122, 2849-2857.	2.5	7
26	Oxidative Ring Contraction of Cyclobutenes: General Approach to Cyclopropylketones including Mechanistic Insights. Journal of Organic Chemistry, 2018, 83, 4905-4921.	3.2	15
27	Complete Mechanism of Hemithioindigo Motor Rotation. Journal of the American Chemical Society, 2018, 140, 5311-5318.	13.7	75
28	Constructing Grids for Molecular Quantum Dynamics Using an Autoencoder. Journal of Chemical Theory and Computation, 2018, 14, 55-62.	5.3	14
29	Singlet Oxygen Reactivity with Carbonate Solvents Used for Li-Ion Battery Electrolytes. Journal of Physical Chemistry A, 2018, 122, 8828-8839.	2.5	114
30	Photoinduced Heterocyclic Ring Opening of Furfural: Distinct Open-Chain Product Identification by Ultrafast X-ray Transient Absorption Spectroscopy. Journal of the American Chemical Society, 2018, 140, 12538-12544.	13.7	34
31	RNA Environment Is Responsible for Decreased Photostability of Uracil. Journal of the American Chemical Society, 2018, 140, 8714-8720.	13.7	21
32	Time-resolved nuclear dynamics in bound and dissociating acetylene. Structural Dynamics, 2018, 5, 044302.	2.3	8
33	Pathways to New Applications for Quantum Control. Accounts of Chemical Research, 2018, 51, 2279-2286.	15.6	26
34	Ultrafast relaxation from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" overflow="scroll"><mml:mrow><mml:msup><mml:mrow /><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msup><mml:msub><mml:mrow><mml:mi>L</mml:mi></mml:mrow><mml:m to <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:msup><mml:mrow /><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msup><mml:msub><mm. Chemical Physics, 201	1.9	17
35	Photoisomerization of hemithioindigo compounds: Combining solvent- and substituent- effects into an advanced reaction model. Chemical Physics, 2018, 515, 614-621.	1.9	13
36	Intersystem Crossing as a Key Component of the Nonadiabatic Relaxation Dynamics of Bithiophene and Terthiophene. Journal of Chemical Theory and Computation, 2018, 14, 4530-4540.	5.3	17

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37	Ultrafast non-adiabatic dynamics of excited diphenylmethyl bromide elucidated by quantum dynamics and semi-classical on-the-fly dynamics. Physical Chemistry Chemical Physics, 2018, 20, 22753-22761.	2.8	0
38	Substituent effects on the relaxation dynamics of furan, furfural and Î²-furfural: a combined theoretical and experimental approach. Physical Chemistry Chemical Physics, 2017, 19, 2025-2035.	2.8	19
39	Ultrafast photochemistry with two product channels: Wavepacket motion through two distinct conical intersections. Chemical Physics Letters, 2017, 683, 128-134.	2.6	9
40	Controlling Photorelaxation in Uracil with Shaped Laser Pulses: AÂTheoretical Assessment. Journal of the American Chemical Society, 2017, 139, 5061-5066.	13.7	35
41	Simulating the control of molecular reactions via modulated light fields: from gas phase to solution. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 082001.	1.5	12
42	Phase- and intensity-dependence of ultrafast dynamics in hydrocarbon molecules in few-cycle laser fields. Molecular Physics, 2017, 115, 1835-1845.	1.7	8
43	Unravelling Photochemical Relationships Among Natural Products from Aplysia dactylomela. ACS Central Science, 2017, 3, 39-46.	11.3	18
44	Ab initio molecular dynamics of thiophene: the interplay of internal conversion and intersystem crossing. Physical Chemistry Chemical Physics, 2017, 19, 25662-25670.	2.8	36
45	The importance of Rydberg orbitals in dissociative ionization of small hydrocarbon molecules in intense laser fields. Scientific Reports, 2017, 7, 4441.	3.3	8
46	Sub-cycle directional control of the dissociative ionization of H₂in tailored femtosecond laser fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 172001.	1.5	14
47	Sub-cycle steering of the deprotonation of acetylene by intense few-cycle mid-infrared laser fields. Optics Express, 2017, 25, 14192.	3.4	10
48	Proximity-Induced H-Aggregation of Cyanine Dyes on DNA-Duplexes. Journal of Physical Chemistry A, 2016, 120, 9941-9947.	2.5	66
49	Design of specially adapted reactive coordinates to economically compute potential and kinetic energy operators including geometry relaxation. Journal of Chemical Physics, 2016, 144, 234104.	3.0	21
50	Monitoring conical intersections in the ring opening of furan by attosecond stimulated X-ray Raman spectroscopy. Structural Dynamics, 2016, 3, 023601.	2.3	38
51	Visualization of bond rearrangements in acetylene using near single-cycle laser pulses. Faraday Discussions, 2016, 194, 495-508.	3.2	26
52	Steering Proton Migration in Hydrocarbons Using Intense Few-Cycle Laser Fields. Physical Review Letters, 2016, 116, 193001.	7.8	74
53	Two New Methods To Generate Internal Coordinates for Molecular Wave Packet Dynamics in Reduced Dimensions. Journal of Chemical Theory and Computation, 2016, 12, 5698-5708.	5.3	14
54	Molecular features in complex environment: Cooperative team players during excited state bond cleavage. Structural Dynamics, 2016, 3, 043205.	2.3	7

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55	Deactivation pathways of thiophene and oligothiophenes: internal conversion versus intersystem crossing. Physical Chemistry Chemical Physics, 2016, 18, 7903-7915.	2.8	38
56	Optimal Control Theory for Molecular Reactions in Atomistic Surroundings. , 2016, , .		0
57	Field-dressed orbitals in strong-field molecular ionization. Physical Review A, 2015, 92, .	2.5	7
58	A multi target approach to control chemical reactions in their inhomogeneous solvent environment. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 234003.	1.5	13
59	The importance of Rydberg orbitals in dissociative ionization of small hydrocarbon molecules in intense few-cycle laser pulses. Journal of Physics: Conference Series, 2015, 635, 112043.	0.4	0
60	Quantum Dynamics in an Explicit Solvent Environment: A Photochemical Bond Cleavage Treated with a Combined QD/MD Approach. Journal of Chemical Theory and Computation, 2015, 11, 1987-1995.	5.3	19
61	Hole-transfer induced energy transfer in perylene diimide dyads with a donorâ€“spacerâ€“acceptor motif. Physical Chemistry Chemical Physics, 2015, 17, 25061-25072.	2.8	9
62	Photochemical formation of intricarene. Nature Communications, 2014, 5, 5597.	12.8	44
63	Making Fast Photoswitches Fasterâ€"Using Hammett Analysis to Understand the Limit of Donorâ€“Acceptor Approaches for Faster Hemithioindigo Photoswitches. Chemistry - A European Journal, 2014, 20, 13984-13992.	3.3	78
64	Photostability of 4,4â€²â€Dihydroxythioindigo, a Mimetic of Indigo. Angewandte Chemie - International Edition, 2014, 53, 591-594.	13.8	38
65	Subfemtosecond steering of hydrocarbon deprotonation through superposition of vibrational modes. Nature Communications, 2014, 5, 3800.	12.8	78
66	Quantum Dynamics of a Photochemical Bond Cleavage Influenced by the Solvent Environment: A Dynamic Continuum Approach. Journal of Physical Chemistry Letters, 2014, 5, 3480-3485.	4.6	18
67	Nucleophilic Substitution Dynamics: Comparing Wave Packet Calculations with Experiment. Journal of Physical Chemistry A, 2014, 118, 4661-4669.	2.5	26
68	The Interplay of Nuclear and Electron Wavepacket Motion in the Control of Molecular Processes: A Theoretical Perspective. Physical Chemistry in Action, 2014, , 213-248.	0.6	3
69	Coupled electron-nuclear wavepacket dynamics in potassium dimers. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 124015.	1.5	15
70	Sub-Femtosecond Steering of Carbonhydrogen Bonds. , 2014, , .		0
71	Tuning of isomerization rates in indigo-based photoswitches. , 2014, , .		0
72	Ionâ€Pairing of Phosphonium Salts in Solution: Cï£¿Hâ‹…â‹…â‹…Halogen and Cï£¿Hâ‹…â‹…â‹…Ï€ Hydrogen Bonds. Chemistry - A European Journal, 2013, 19, 14612-14630.	3.3	22

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73	Adaptive strong-field control of chemical dynamics guided by three-dimensional momentum imaging. Nature Communications, 2013, 4, 2895.	12.8	51
74	Norbornenes in Inverse Electronâ€Demand Dielsâ€“Alder Reactions. Chemistry - A European Journal, 2013, 19, 13309-13312.	3.3	61
75	Charge Oscillation Controlled Molecular Excitation. Physical Review Letters, 2013, 110, 123003.	7.8	33
76	(Sub-)femtosecond control of molecular reactions via tailoring the electric field of light. Physical Chemistry Chemical Physics, 2013, 15, 9448.	2.8	86
77	Ground and Excited State Surfaces for the Photochemical Bond Cleavage in Phenylmethylphenylphosphonium Ions. Journal of Physical Chemistry A, 2013, 117, 10626-10633.	2.5	6
78	A Comprehensive Microscopic Picture of the Benzhydryl Radical and Cation Photogeneration and Interconversion through Electron Transfer. ChemPhysChem, 2013, 14, 1423-1437.	2.1	22
79	Wavepacket Splitting in the First 100 fs Determines the Products from the Bond Cleavage of Diphenylmethylchloride. EPJ Web of Conferences, 2013, 41, 05042.	0.3	6
80	Ultrafast spectroscopy of UV-induced DNA-lesions â€" on the search for strategies which keep DNA alive. EPJ Web of Conferences, 2013, 41, 07005.	0.3	2
81	Femtosecond pump-probe spectroscopy for single trapped molecular ions. EPJ Web of Conferences, 2013, 41, 02028.	0.3	0
82	Molecular wave packet dynamics decelerated by solvent environment: A theoretical approach. EPJ Web of Conferences, 2013, 41, 05043.	0.3	3
83	Efficient attosecond control of electron dynamics in molecules. EPJ Web of Conferences, 2013, 41, 02026.	0.3	2
84	Dynamics of ultraviolet-induced DNA lesions: Dewar formation guided by pre-tension induced by the backbone. New Journal of Physics, 2012, 14, 065006.	2.9	24
85	ONIOM approach for non-adiabatic on-the-fly molecular dynamics demonstrated for the backbone controlled Dewar valence isomerization. Journal of Chemical Physics, 2012, 136, 204307.	3.0	25
86	Conical intersection seams in polyenes derived from their chemical composition. Journal of Chemical Physics, 2012, 137, 074101.	3.0	11
87	Molecular Model of the Ring-Opening and Ring-Closure Reaction of a Fluorinated Indolylfulgide. Journal of Physical Chemistry A, 2012, 116, 10518-10528.	2.5	19
88	A molecular conveyor belt by controlled delivery of single molecules into ultrashort laser pulses. Nature Physics, 2012, 8, 238-242.	16.7	38
89	Optimal control theory â€" closing the gap between theory and experiment. Physical Chemistry Chemical Physics, 2012, 14, 14460.	2.8	63
90	Buildup and Decay of the Optical Absorption in the Ultrafast Photo-Generation and Reaction of Benzhydryl Cations in Solution. Journal of Physical Chemistry A, 2012, 116, 11064-11074.	2.5	27

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91	Subcycle Controlled Charge-Directed Reactivity with Few-Cycle Midinfrared Pulses. Physical Review Letters, 2012, 108, 063002.	7.8	99
92	Mechanism of UV-induced Dewar lesion repair catalysed by DNA (6-4) photolyase. Chemical Science, 2012, 3, 1794.	7.4	9
93	Electron Dynamics and Its Control in Molecules: From Diatomics to Larger Molecular Systems. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 119-129.	2.9	21
94	Mechanism of UVâ€Induced Formation of Dewar Lesions in DNA. Angewandte Chemie - International Edition, 2012, 51, 408-411.	13.8	67
95	Searching for pathways involving dressed states in optimal control theory. Faraday Discussions, 2011, 153, 159.	3.2	14
96	Waveform control of orientation-dependent ionization of DCl in few-cycle laser fields. Physical Chemistry Chemical Physics, 2011, 13, 8653.	2.8	37
97	Geometrical and substituent effects in conical intersections: Linking chemical structure and photoreactivity in polyenes. Journal of Chemical Physics, 2011, 135, 034304.	3.0	18
98	Cavity sideband cooling of trapped molecules. Physical Review A, 2011, 84, .	2.5	10
99	Keldysh-scaling in the waveform control of the dissociative ionization of D<inf>2</inf>. , 2011, , .		0
100	Effects of multi orbital contributions in the angular-dependent ionization of molecules in intense few-cycle laser pulses. Applied Physics B: Lasers and Optics, 2010, 98, 659-666.	2.2	46
101	Controlling near-field optical intensities in metal nanoparticle systems by polarization pulse shaping. Applied Physics B: Lasers and Optics, 2010, 100, 195-206.	2.2	3
102	The detailed balance limit of photochemical energy conversion. Physical Chemistry Chemical Physics, 2010, 12, 422-432.	2.8	36
103	Beyond the van der Lugt/Oosterhoff Model: When the Conical Intersection Seam and the S₁Minimum Energy Path Do Not Cross. Journal of Organic Chemistry, 2010, 75, 123-129.	3.2	52
104	Molecular Driving Forces for Z/E Isomerization Mediated by Heteroatoms: The Example Hemithioindigo. Journal of Physical Chemistry A, 2010, 114, 13016-13030.	2.5	58
105	Chemoselective quantum control of carbonyl bonds in Grignard reactions using shaped laser pulses. Physical Chemistry Chemical Physics, 2010, 12, 15780.	2.8	22
106	Molecular processes controllable by electron dynamics. , 2010, , .		0
107	Optimization of the Fast Charge Separation in Artificial Photosynthesis for Efficient Transport. , 2010, , .		0
108	Attosecond Control of Electron Dynamics in Carbon Monoxide. Physical Review Letters, 2009, 103, 103002.	7.8	151

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109	Modified ant-colony-optimization algorithm as an alternative to genetic algorithms. Physical Review A, 2009, 79, .	2.5	23
110	Multi-objective genetic algorithm optimization of 2D- and 3D-Pareto fronts for vibrational quantum processes. New Journal of Physics, 2009, 11, 013019.	2.9	13
111	Pulse trains in molecular dynamics and coherent spectroscopy: a theoretical study. New Journal of Physics, 2009, 11, 105036.	2.9	19
112	Attosecond control of the dissociative ionization via electron localization: A comparison between and CO. Chemical Physics, 2009, 366, 139-147.	1.9	48
113	Analysis of near-field control in a single-nanoparticle system. , 2009, , .		0
114	Simultaneous Description of Electron and Nuclear Dynamics: A Quantum Approach for Multi-Electron Systems. Springer Series in Chemical Physics, 2009, , 54-56.	0.2	0
115	Design criteria for optimal photosynthetic energy conversion. Chemical Physics Letters, 2008, 466, 209-213.	2.6	12
116	Ultrafast dissociation pathways of diphenylmethyl chloride to generate reactive carbo cations. Chemical Physics, 2008, 343, 329-339.	1.9	17
117	The interplay of skeletal deformations and ultrafast excited-state intramolecular proton transfer: Experimental and theoretical investigation of 10-hydroxybenzo[h]quinoline. Chemical Physics, 2008, 347, 446-461.	1.9	91
118	Accelerated and Efficient Photochemistry from Higher Excited Electronic States in Fulgide Molecules. Journal of Physical Chemistry A, 2008, 112, 13364-13371.	2.5	41
119	Comment on â€œAnharmonic properties of the vibrational quantum computerâ€•[J. Chem. Phys. 126, 204102 (2007)]. Journal of Chemical Physics, 2008, 128, 167101.	3.0	6
120	Electron dynamics in molecules: a new combination of nuclear quantum dynamics and electronic structure theory. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 074006.	1.5	64
121	Theoretical optimization and prediction in the experimental search space for vibrational quantum processes. Physical Review A, 2008, 78, .	2.5	30
122	Monotonic Convergent Optimal Control Theory with Strict Limitations on the Spectrum of Optimized Laser Fields. Physical Review Letters, 2008, 101, 073002.	7.8	67
123	Cavity Cooling of Internal Molecular Motion. Physical Review Letters, 2007, 99, 073001.	7.8	67
124	Femtosecond Lasers for Quantum Information Technology. Chemical Reviews, 2007, 107, 5082-5100.	47.7	88
125	Chirp-driven vibrational distribution in transition metal carbonyl complexes. Physical Chemistry Chemical Physics, 2007, 9, 369-376.	2.8	15
126	Influence of static and dynamical structural changes on ultrafast processes mediated by conical intersections. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 190, 352-358.	3.9	13

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127	Cavity cooling of translational and ro-vibrational motion of molecules: ab initio-based simulations for OH and NO. Applied Physics B: Lasers and Optics, 2007, 89, 459-467.	2.2	10
128	Robustness of quantum gates operating on the high frequency modes of MnBr(CO)5. Chemical Physics, 2007, 338, 291-298.	1.9	13
129	Control strategies for molecular switches in donor-bridge-acceptor systems. Springer Series in Chemical Physics, 2007, , 258-260.	0.2	1
130	Control strategies for reactive processes involving vibrationally hot product states. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 180, 282-288.	3.9	21
131	The role of phases and their interplay in molecular vibrational quantum computing with multiple qubits. New Journal of Physics, 2006, 8, 100-100.	2.9	38
132	The role of anharmonicity and coupling in quantum computing based on vibrational qubits. New Journal of Physics, 2006, 8, 48-48.	2.9	54
133	Control strategies for molecular switches in donor-bridge-acceptor systems. , 2006, , .		0
134	Kohlenstofftanz und Frequenzkamm. Nachrichten Aus Der Chemie, 2005, 53, 1112-1115.	0.0	1
135	Reaction velocity control by manipulating the momentum of a nuclear wavepacket with phase-sensitive optimal control theory. Chemical Physics Letters, 2005, 404, 289-295.	2.6	26
136	Mechanisms of local and global molecular quantum gates and their implementation prospects. Journal of Chemical Physics, 2005, 122, 154105.	3.0	50
137	Manganese pentacarbonyl bromide as candidate for a molecular qubit system operated in the infrared regime. Journal of Chemical Physics, 2005, 123, 244509.	3.0	67
138	Laser control schemes for molecular switches. Applied Physics B: Lasers and Optics, 2004, 79, 987-992.	2.2	63
139	Vibrational molecular quantum computing: Basis set independence and theoretical realization of the Deutschâ€“Jozsa algorithm. Journal of Chemical Physics, 2004, 121, 12158.	3.0	98
140	Molekulares Quantencomputing. Nachrichten Aus Der Chemie, 2004, 52, 555-559.	0.0	1
141	NONADIABATIC QUANTUM DYNAMICS AND CONTROL STRATEGIES. Advanced Series in Physical Chemistry, 2004, , 803-827.	1.5	5
142	Preparation and addressability of molecular vibrational qubit states in the presence of anharmonic resonance. Chemical Physics Letters, 2003, 378, 273-280.	2.6	57
143	Controlling molecular ground-state dissociation by optimizing vibrational ladder climbing. Journal of Chemical Physics, 2003, 118, 2021-2024.	3.0	107
144	Ultrafast Excited-State Proton Transfer of 2-(2â€˜-Hydroxyphenyl)benzothiazole: Theoretical Analysis of the Skeletal Deformations and the Active Vibrational Modesâ€. Journal of Physical Chemistry A, 2003, 107, 10591-10599.	2.5	154

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145	Control of a collision complex via a conical intersection. Journal of Chemical Physics, 2003, 119, 5901-5906.	3.0	28
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147	Physikalische Chemie 2002. Nachrichten Aus Der Chemie, 2003, 51, 330-339.	0.0	0
148	Molecular quantum computing: Implementation of global quantum gates applying optimal control theory. Springer Series in Chemical Physics, 2003, , 76-78.	0.2	0
149	Optimal use of time-dependent probability density data to extract potential-energy surfaces. Physical Review A, 2002, 65, .	2.5	9
150	Teaching optimal control theory to distill robust pulses even under experimental constraints. Physical Review A, 2002, 65, .	2.5	46
151	Optimal conversion of an atomic to a molecular Bose-Einstein condensate. Physical Review A, 2002, 66, .	2.5	35
152	Quantum Computation with Vibrationally Excited Molecules. Physical Review Letters, 2002, 89, 157901.	7.8	277
153	Molecular quantum computing: Implementation of global quantum gates applying optimal control theory. , 2002, , .		0
154	Laserfields obtained through optimal control theory throw light on Raman type control experiments. , 2002, , .		0
155	Ground state normal mode analysis: Linking excited state dynamics and experimental observables. Journal of Chemical Physics, 2001, 114, 6151-6159.	3.0	38
156	Coherent control for ultrafast photochemical reactions. Pure and Applied Chemistry, 2001, 73, 525-528.	1.9	15
157	Design of optimal infrared femtosecond laser pulses for the overtone excitation in acetylene. Chemical Physics, 2001, 267, 173-185.	1.9	21
158	Adiabatic approach for ultrafast quantum dynamics mediated by simultaneously active conical intersections. Chemical Physics Letters, 2001, 346, 299-304.	2.6	75
159	Coherent control of the molecular four-wave-mixing response by phase and amplitude shaped pulses. Chemical Physics, 2001, 267, 261-276.	1.9	43
160	Applying optimal control theory for elements of quantum computation in molecular systems. Chemical Physics Letters, 2001, 343, 633-641.	2.6	118
161	Adapting optimal control theory and using learning loops to provide experimentally feasible shaping mask patterns. Journal of Chemical Physics, 2001, 115, 3105-3111.	3.0	62
162	Does the proton move during ultrafast excited state intramolecular proton transfer?. Springer Series in Chemical Physics, 2001, , 645-647.	0.2	1

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163	Design and interpretation of laser pulses for the control of quantum systems. Applied Physics B: Lasers and Optics, 2000, 71, 285-292.	2.2	11
164	Interaction of electronic structure and nuclear dynamics on the S1 reaction surface for the ring opening of cyclohexadiene. Applied Physics B: Lasers and Optics, 2000, 71, 391-396.	2.2	18
165	Quantum dynamics of photoexcited cyclohexadiene introducing reactive coordinates. Journal of Chemical Physics, 2000, 112, 5054-5059.	3.0	82
166	Compensating for spatial laser profile effects on the control of quantum systems. Physical Review A, 2000, 62, .	2.5	21
167	Whither the Future of Controlling Quantum Phenomena?. Science, 2000, 288, 824-828.	12.6	1,045
168	Extensions to quantum optimal control algorithms and applications to special problems in state selective molecular dynamics. Journal of Chemical Physics, 1999, 110, 1896-1904.	3.0	163
169	Laser control strategies for energy transfer reactions in atom molecule collisions. Faraday Discussions, 1999, 113, 303-317.	3.2	33
170	Quantum optimal control strategies for photoisomerization via electronically excited states. Chemical Physics Letters, 1998, 290, 415-422.	2.6	55
171	Optimal laser control for photoisomerization. Springer Series in Chemical Physics, 1998, , 465-467.	0.2	0
172	A practical approach to multivariate interpolation. Computers in Physics, 1997, 11, 647.	0.5	4
173	Ultrafast excitation process in NaNH3: a combined theoretical and experimental analysis. Chemical Physics, 1997, 225, 299-308.	1.9	8
174	Theoretical study of the absorption spectrum of the pseudorotating Na3(B). Chemical Physics, 1997, 223, 1-14.	1.9	10
175	Femtosecond wave-packet propagation in spin-orbit-coupled electronic states ofK239,39andK239,41. Physical Review A, 1996, 54, 306-313.	2.5	49
176	Ultrafast molecular dynamics controlled by pulse duration: The Na3 molecule. Journal of Chemical Physics, 1996, 104, 8857-8864.	3.0	35
177	Femtosecond Study of Multiphoton Ionization Processes in K2:Â From Pumpâ˜Probe to Control#. The Journal of Physical Chemistry, 1996, 100, 7789-7796.	2.9	72
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