Osman Atabek

List of Publications by Year in descending order

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192 papers	4,774 citations	116194 36 h-index	139680 61 g-index
192 all docs	192 docs citations	192 times ranked	1890 citing authors

#	Article	IF	Citations
1	Laser control of ultracold molecule formation: The case of RbSr. Physical Review A, 2021, 103, .	1.0	11
2	Funneling dynamics in a phenylacetylene trimer: Coherent excitation of donor excitonic states and their superposition. Journal of Chemical Physics, 2021, 155, 034303.	1.2	6
3	Role of the multiple-excitation manifold in a driven quantum simulator of an antenna complex. Physical Review A, 2020, 102, .	1.0	1
4	Progress toward full optical control of ultracold-molecule formation: Role of scattering Feshbach resonances. Physical Review A, 2020, 101, .	1.0	3
5	Laser-Assisted Self Induced Feshbach Resonance : a new tool for controlling ultracold atomic collisions. Journal of Physics: Conference Series, 2020, 1412, 122008.	0.3	0
6	Anisotropy control in photoelectron spectra: A coherent two-pulse interference strategy. Physical Review A, 2019, 100, .	1.0	5
7	Visualising the role of non-perturbative environment dynamics in the dissipative generation of coherent electronic motion. Chemical Physics, 2019, 525, 110392.	0.9	8
8	Zero-width resonances in the context of Fano's configuration interaction formalism. Molecular Physics, 2019, 117, 2010-2013.	0.8	1
9	Laser-assisted self-induced Feshbach resonance for controlling heteronuclear quantum gas mixtures. Physical Review A, 2019, 100, .	1.0	7
10	Statistical distributions of the tuning and coupling collective modes at a conical intersection using the hierarchical equations of motion. Journal of Chemical Physics, 2019, 151, 244102.	1.2	10
11	Non-Markovianity in the optimal control of an open quantum system described by hierarchical equations of motion. New Journal of Physics, 2018, 20, 043050.	1.2	19
12	Basic mechanisms in the laser control of non-Markovian dynamics. Physical Review A, 2018, 97, .	1.0	5
13	Proposal for the formation of ultracold deeply bound RbSr dipolar molecules by all-optical methods. Physical Review A, 2018, 98, .	1.0	11
14	Coherent quantum dynamics launched by incoherent relaxation in a quantum circuit simulator of a light-harvesting complex. Physical Review A, 2018, 97, .	1.0	13
15	Towards laser control of open quantum systems: memory effects. Molecular Physics, 2017, 115, 1944-1954.	0.8	6
16	Laser-induced electron diffraction: alignment defects and symmetry breaking. Molecular Physics, 2017, 115, 1934-1943.	0.8	9
17	Laser-induced electron diffraction: inversion of photo-electron spectra for molecular orbital imaging. Molecular Physics, 2017, 115, 1889-1897.	0.8	8
18	Vibrational-ground-state zero-width resonances for laser filtration: An extended semiclassical analysis. Physical Review A, 2017, 95, .	1.0	1

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19	Exotic states in the strong-field control of ${{m{H}}}_{2}^{+}$ dissociation dynamics: from exceptional points to zero-width resonances. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 234002.	0.6	15
20	Controlling vibrational cooling with zero-width resonances: An adiabatic Floquet approach. Physical Review A, 2016, 94, .	1.0	9
21	Inversion of strong-field photoelectron spectra for molecular orbital imaging. Physical Review A, 2016, 94, .	1.0	13
22	Nonlinear Fano interferences in open quantum systems: An exactly solvable model. Physical Review A, 2016, 93, .	1.0	11
23	Fano-Liouville Spectral Signatures in Open Quantum Systems. Physical Review Letters, 2015, 115, 113006.	2.9	16
24	Theoretical analysis of dipole-induced electromagnetic transparency. Physical Review A, 2015, 91, .	1.0	15
25	Control of molecular dynamics with zero-area fields: Application to molecular orientation and photofragmentation. Physical Review A, 2014, 90, .	1.0	22
26	External constraints on optimal control strategies in molecular orientation and photofragmentation: role of zero-area fields. Journal of Modern Optics, 2014, 61, 816-821.	0.6	4
27	SERS as a Probe of Charge-Transfer Pathways in Hybrid Dye/Moleculeâ€“Metal Oxide Complexes. Journal of Physical Chemistry C, 2014, 118, 3774-3782.	1.5	25
28	Dipole-Induced Electromagnetic Transparency. Physical Review Letters, 2014, 113, 163603.	2.9	21
29	Dopamine Adsorption on TiO₂ Anatase Surfaces. Journal of Physical Chemistry C, 2014, 118, 20688-20693.	1.5	47
30	Probing Raman Enhancement in a Dopamineâ€“Ti₂O₄ Hybrid Using Stretched Molecular Geometries. Journal of Physical Chemistry A, 2014, 118, 1196-1202.	1.1	8
31	Exceptional points for logic operations at the molecular level. Fortschritte Der Physik, 2013, 61, 162-177.	1.5	5
32	Laser-controlled rotational cooling of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="bold">Na</mml:mi><mml:mn mathvariant="bold">2</mml:mn></mml:msub></mml:math>based on exceptional points. Physical Review A, 2013, 88, .	1.0	5
33	Dissociation quenching using exceptional points. Journal of Molecular Modeling, 2013, 19, 1959-1965.	0.8	1
34	Attosecond pump-probe transition-state spectroscopy of laser-induced molecular dissociative ionization: Adiabatic versus nonadiabatic dressed-state dynamics. Physical Review A, 2013, 88, .	1.0	16
35	Signatures of exceptional points in the laser control of non-adiabatic vibrational transfer. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 145402.	0.6	16
36	Proposal for laser purification in molecular vibrational cooling using zero-width resonances. Physical Review A, 2013, 87, .	1.0	9

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37	Laser-induced electron diffraction: A tool for molecular orbital imaging. Physical Review A, 2012, 85, .	1.0	53
38	Clusters of exceptional points for a laser control of selective vibrational transfer. Chemical Physics, 2012, 399, 111-116.	0.9	8
39	Zeroâ€width resonances and exceptional points in molecular photodissociation. International Journal of Quantum Chemistry, 2011, 111, 272-278.	1.0	2
40	Laser cooling of the vibrational motion of Na2combining the effects of zero-width resonances and exceptional points. Physical Review A, 2011, 84, .	1.0	9
41	Ultrafast molecular imaging by laser-induced electron diffraction. Physical Review A, 2011, 83, .	1.0	51
42	Proposal for a Laser Control of Vibrational Cooling in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Na</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>Using Resonance Coalescence. Physical Review Letters, 2011, 106, 173002.	2.9	50
43	Exceptional points in multichannel resonance quantization. European Physical Journal D, 2010, 56, 317-324.	0.6	9
44	Laser Control of Vibrational Transfer Based on Exceptional Points. Journal of Physical Chemistry A, 2010, 114, 3031-3037.	1.1	14
45	Unstable States in Laser Assisted and Controlled Molecular Processes. Advances in Quantum Chemistry, 2010, 60, 51-104.	0.4	6
46	Unusual lowâ€intensity regime in laserâ€induced molecular photodissociation. International Journal of Quantum Chemistry, 2009, 109, 3423-3429.	1.0	5
47	Molecular orientation entanglement and temporal Bell-type inequalities. European Physical Journal D, 2009, 53, 383-392.	0.6	3
48	Resonance Coalescence in Molecular Photodissociation. Physical Review Letters, 2009, 103, 123003.	2.9	108
49	Molecular Dissociative Ionization and Wave-Packet Dynamics Studied Using Two-Color XUV and IR Pump-Probe Spectroscopy. Physical Review Letters, 2009, 103, 123005.	2.9	115
50	Multiple occurrence of zero-width resonances in photodissociation: Effect of laser field intensity and frequency. Physical Review A, 2008, 78, .	1.0	8
51	Intense-field zero-width resonances and control of molecular photodissociation. Physical Review A, 2008, 77, .	1.0	26
52	Laser-induced nonlinear response in photoassisted resonant electronic transport. Journal of Chemical Physics, 2007, 127, 154110.	1.2	17
53	Intense laser-controlled quenching of molecular fragmentation. Physical Review A, 2007, 75, .	1.0	16
54	High-order adiabatic representations of quantum systems through a perturbative construction of dynamical invariants. Physical Review A, 2007, 76, .	1.0	8

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55	Bell-Type Inequalities for Cold Heteronuclear Molecules. Physical Review Letters, 2007, 99, 130405.	2.9	13
56	Scattering by an oscillating resonance. Molecular Physics, 2007, 105, 1653-1660.	0.8	0
57	Quantum phase gate and controlled entanglement with polar molecules. Physical Review A, 2007, 75, .	1.0	49
58	Zero-width resonances in intense-field molecular photodissociation. Physical Review A, 2006, 74, .	1.0	16
59	A simple model for laser-electrode interaction and its role in photo-assisted electron transport processes in molecular interfaces. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 3779-3794.	0.6	14
60	Intense laser dissociation ofD2+: From experiment to theory. Physical Review A, 2005, 72, .	1.0	29
61	Floquet representation of absolute phase and pulse-shape effects on laser-driven molecular photodissociation. Physical Review A, 2005, 71, .	1.0	15
62	Optimally controlled field-free orientation of the kicked molecule. Physical Review A, 2005, 72, .	1.0	30
63	Scattering by a time-dependent target. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 2133-2144.	0.6	6
64	Control of mixed-state quantum systems by a train of short pulses. Physical Review A, 2005, 72, .	1.0	45
65	Laser control for the optimal evolution of pure quantum states. Physical Review A, 2005, 71, .	1.0	36
66	Pulse-driven quantum dynamics beyond the impulsive regime. Physical Review A, 2004, 69, .	1.0	12
67	Laser-assisted conductance of molecular wires: Two-photon contributions. International Journal of Quantum Chemistry, 2004, 99, 460-466.	1.0	10
68	Optimal control of attosecond pulse synthesis from high-order harmonic generation. Physical Review A, 2004, 69, .	1.0	34
69	Reaching optimally oriented molecular states by laser kicks. Physical Review A, 2004, 69, .	1.0	85
70	Time-dependent unitary perturbation theory for intense laser-driven molecular orientation. Physical Review A, 2004, 69, .	1.0	40
71	Collapse of transmissivity in a triple barrier. Israel Journal of Chemistry, 2003, 43, 319-323.	1.0	0
72	Evolutionary algorithms for the optimal laser control of molecular orientation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 4667-4682.	0.6	37

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73	Quantitative theory-versus-experiment comparison for the intense laser dissociation ofH2+. Physical Review A, 2003, 68, .	1.0	34
74	Unitary time-dependent superconvergent technique for pulse-driven quantum dynamics. Physical Review A, 2003, 67, .	1.0	12
75	Optimized time-dependent perturbation theory for pulse-driven quantum dynamics in atomic or molecular systems. Physical Review A, 2003, 68, .	1.0	7
76	Theory of intense laser-induced molecular dissociation: From simulation to control. Handbook of Numerical Analysis, 2003, 10, 745-802.	0.9	6
77	Nonadiabatic molecular response to short, intense laser pulses: a wave operator generalized Floquet approach. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 2777-2795.	0.6	12
78	Occurrence of unit transmissivity in scattering. Physical Review A, 2002, 65, .	1.0	3
79	Optimal laser control of orientation: The kicked molecule. Physical Review A, 2002, 65, .	1.0	68
80	Numerical optimization of laser fields to control molecular orientation. Physical Review A, 2002, 66, .	1.0	50
81	Laser-assisted conductance of molecular wires. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 4981-4988.	0.6	33
82	OPTIMAL LASER CONTROL OF MOLECULAR SYSTEMS: METHODOLOGY AND RESULTS. Mathematical Models and Methods in Applied Sciences, 2002, 12, 1281-1315.	1.7	20
83	Nonadiabatic tunneling in the presence of an oscillating field. Physical Review A, 2002, 65, .	1.0	3
84	Localization of energy exchanges in field-assisted double-barrier resonant tunnelling: II. The two-level case. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 1115-1122.	0.6	1
85	Analysis of a case of field-induced unit transmissivity in resonant tunneling. Physical Review A, 2001, 64, .	1.0	4
86	Dynamical quenching of laser-induced dissociations of diatomic molecules in intense infrared fields: Effects of molecular rotations and misalignments. Journal of Chemical Physics, 2001, 114, 2197-2207.	1.2	17
87	Orienting molecules using half-cycle pulses. European Physical Journal D, 2001, 14, 249-255.	0.6	132
88	Split operator method for the nonadiabatic (J=0) bound states and (Aâ†X) absorption spectrum of NO2. Journal of Chemical Physics, 2001, 115, 6450-6458.	1.2	16
89	Nonadiabatic tunnelling: an exactly soluble model. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 3665-3675.	0.6	2
90	Laser-induced molecular rotational dynamics: A high-frequency Floquet approach. Physical Review A, 2000, 61, .	1.0	41

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91	Photoionization of the hydrogen atom in an intense high-frequency field: the two-pole approximation. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 3271-3282.	0.6	2
92	Intense-laser-induced alignment in angularly resolved photofragment distributions ofH2+. Physical Review A, 1999, 60, 406-413.	1.0	42
93	Transfer-matrix formulation of field-assisted tunneling. Physical Review A, 1999, 59, 3701-3709.	1.0	29
94	Theoretical description of the interaction of CO adsorbed on a n(=1,2,â‹¯)Ã—Ar/Pt(111) substrate: The transition from chemisorption to physisorption. Journal of Chemical Physics, 1999, 110, 4907-4919.	1.2	1
95	Laser-induced alignment dynamics of HCN: Roles of the permanent dipole moment and the polarizability. Physical Review A, 1999, 59, 1382-1391.	1.0	139
96	Two-frequency IR laser orientation of polar molecules. Numerical simulations for HCN. Chemical Physics Letters, 1999, 302, 215-223.	1.2	112
97	Intense laser control of the chemical bond. Computational and Theoretical Chemistry, 1999, 493, 89-101.	1.5	2
98	Dynamical quenching of laser-induced dissociations of heteronuclear diatomic molecules in intense infrared fields. Journal of Chemical Physics, 1999, 110, 4737-4749.	1.2	23
99	Dressed potential energy surface of the hydrogen molecule in high-frequency Floquet theory. International Journal of Quantum Chemistry, 1998, 70, 199-203.	1.0	4
100	Atoms in a high-frequency circularly polarized field: a boundary condition problem for the free atom. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, 4513-4521.	0.6	2
101	Angular-resolved above-threshold-dissociation dynamics by a Fourier-transform grid method with divergent coupling. Physical Review A, 1998, 57, 2841-2850.	1.0	15
102	Dynamical quenching of field-induced dissociation of H2+ in intense infrared lasers. Journal of Chemical Physics, 1998, 108, 3974-3986.	1.2	44
103	Laser-induced processes during the Coulomb explosion ofH2in a Ti-sapphire laser pulse. Physical Review A, 1998, 58, 3922-3933.	1.0	70
104	Dressed atomic energies of high-frequency Floquet theory. , 1998, , .		0
105	Efficient quantum formula for calculating pump-probe signals. , 1998, , .		0
106	Laser-induced alignment dynamics of HCN by short intense pulses. , 1998, 3271, 254.		0
107	Alignment in angular-resolved multiphoton spectra of H 2+. , 1998, 3271, 262.		0
108	Dressed states of the high-frequency Floquet theory for atoms and molecules with standard computational quantum chemistry programs. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, 5157-5167.	0.6	15

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109	Tunnel ionization of H_{2} in a low-frequency laser field: A wave-packet approach. Physical Review A, 1997, 56, 2142-2167.	1.0	26
110	Nonadiabatic response to short intense laser pulses in dissociation dynamics. Physical Review A, 1997, 56, 772-781.	1.0	23
111	Gauges and fluxes in multiphoton absorption by H2+. International Journal of Quantum Chemistry, 1997, 63, 403-414.	1.0	5
112	Nonadiabatic effects in multiphoton dissociation dynamics. International Journal of Quantum Chemistry, 1997, 64, 53-61.	1.0	1
113	Laser-induced alignment dynamics in multiphoton dissociation of H2+. International Journal of Quantum Chemistry, 1997, 65, 617-624.	1.0	2
114	Time-resolved dynamics of two-channel molecular systems in cw laser fields: Wave-packet construction in the Floquet formalism. Physical Review A, 1995, 51, 1387-1402.	1.0	8
115	Laser-induced molecular alignment in dissociation dynamics. Physical Review A, 1995, 52, 1298-1309.	1.0	58
116	Harmonic generation in molecular systems: application to H2+in intense laser fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 1995, 28, 2007-2020.	0.6	24
117	Dissociation, ionization, and Coulomb explosion ofH2+in an intense laser field by numerical integration of the time-dependent SchrÃ¶dinger equation. Physical Review A, 1995, 52, 2977-2983.	1.0	234
118	Resonances in Molecular Dynamics: Concepts and Applications. , 1995, , 107-129.		0
119	On the self-generation of asymptotic boundary conditions in energy quantization. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, 3005-3015.	0.6	16
120	Isotope separation using intense laser fields. Physical Review A, 1994, 49, R8-R11.	1.0	41
121	Isotope effects and bond softening in intense-laser-field multiphoton dissociation ofH2+. Physical Review A, 1994, 49, 1502-1505.	1.0	13
122	Isotope effects in laser-induced multiphoton molecular dynamics. International Journal of Quantum Chemistry, 1994, 52, 113-127.	1.0	6
123	Spectral widths ofH2+multiphoton dissociation with short intense laser pulses. Physical Review A, 1994, 49, 1186-1195.	1.0	18
124	Complex eigenenergy spectrum of the Schrodinger equation using Lanczos' tau method. Journal of Physics B: Atomic, Molecular and Optical Physics, 1993, 26, 835-853.	0.6	6
125	Molecular photodissociation with diverging couplings: An application toH2+in intense cw laser fields. II. The multiphoton problem. Physical Review A, 1993, 48, 3855-3862.	1.0	29
126	Continuum Raman scattering with short laser pulses. Physical Review A, 1993, 48, 3741-3756.	1.0	10

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127	Molecular photodissociation with diverging couplings: An application toH2+in intense cw laser fields. I. The single-photon problem. Physical Review A, 1993, 48, 3845-3854.	1.0	44
128	Multiphoton absorption line shapes and branching ratios in intense laser fields: An application toH2+photodissociation. Physical Review A, 1992, 45, 8056-8063.	1.0	25
129	Hemiquantal time dependent calculation of the absorption spectrum of a photodissociating triatomic. Journal of Chemical Physics, 1992, 97, 2490-2498.	1.2	10
130	Dynamics of ozone photoabsorption: A theoretical study of the Chappuis band. Journal of Chemical Physics, 1992, 96, 6580-6590.	1.2	46
131	Application of the complex coordinate method to the conical resonances of Jahnâ€“Teller spectra. Journal of Chemical Physics, 1992, 97, 3973-3980.	1.2	8
132	Above-threshold-dissociation dynamics ofH2+with short intense laser pulses. Physical Review A, 1992, 46, 5845-5855.	1.0	137
133	Resonant behaviour of the scattering phase shift. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1992, 107, 463-481.	0.2	3
134	Analysis of avoided crossings in energy correlation diagrams of Jahnâ€”Teller system. Computational and Theoretical Chemistry, 1992, 261, 153-160.	1.5	2
135	An Artificial Channel Procedure for Multiphoton Absorption Lineshape and Branching Ratios in Intense Laser Fields: Application to H 2 + Photodissociation. NATO ASI Series Series B: Physics, 1992, , 65-74.	0.2	0
136	Quantum localization over a potential barrier. International Journal of Quantum Chemistry, 1991, 40, 211-224.	1.0	21
137	Experimental evidence of vibrational mode selectivity in the indirect predissociation of N2O+ Aâ€‰2Î£+. Energy distribution of the diatomic fragment and comparison with a model prediction. Journal of Chemical Physics, 1990, 93, 8881-8892.	1.2	34
138	Semiadiabatic treatment of photodissociation in strong laser fields. Physical Review A, 1990, 42, 1585-1591.	1.0	23
139	An interpretation of molecular fragmentation dynamics in terms of the resonance spectrum. Journal of Chemical Physics, 1990, 93, 4750-4760.	1.2	10
140	Above-threshold dissociation ofH2+in intense laser fields. Physical Review Letters, 1990, 64, 515-518.	2.9	335
141	Time-resolved photodissociation dynamics studied by absorption and emission spectroscopies. Journal De Chimie Physique Et De Physico-Chimie Biologique, 1990, 87, 775-817.	0.2	2
142	Determination of tunneling rates in bound systems using the complex coordinate method. Journal of Chemical Physics, 1989, 91, 6246-6253.	1.2	17
143	Raman emission as a probe for photodissociation dynamics. Journal of Chemical Physics, 1989, 91, 1585-1595.	1.2	36
144	Direct numerical integration of coupled equations with non-adiabatic interactions. Chemical Physics, 1989, 129, 451-462.	0.9	14

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145	Application of box quantization to the determination of the dissociation rates of a system of two coupled morse oscillators. International Journal of Quantum Chemistry, 1989, 36, 647-657.	1.0	2
146	Collisional treatment of multiphoton dissociation of small molecules in strong laser fields. , 1989, , 311-312.		0
147	Reduced-diabatic vibrational close coupled treatment of molecular dissociation dynamics. International Journal of Quantum Chemistry, 1988, 34, 161-184.	1.0	3
148	Successive embeddings of excited atomic dipoles in plasmas. Journal of Computational Physics, 1988, 77, 73-84.	1.9	1
149	Laser-induced resonances in molecular dissociation in intense fields. Physical Review A, 1988, 38, 5586-5594.	1.0	66
150	H 2 + in Intense Fields. A Coupled Equations Study. , 1988, , 309-315.		0
151	Threeâ€dimensional analytical model for isotope effects in the photofragmentation of triatomic molecules. Journal of Chemical Physics, 1987, 87, 5870-5881.	1.2	9
152	A quantum mechanical model study of nitromethane fragmentation dynamics. The Journal of Physical Chemistry, 1987, 91, 1397-1399.	2.9	3
153	Semiclassical methods in multiphoton diatomic spectroscopy: beyond perturbation theory. The Journal of Physical Chemistry, 1987, 91, 6469-6478.	2.9	23
154	Threeâ€dimensional analytical model for the photodissociation of symmetric triatomics. Absorption and fluorescence spectra of ozone. Journal of Chemical Physics, 1986, 84, 6699-6711.	1.2	39
155	Angular distributions using the artificial channel method: Application to 4HeD+ infrared photodissociation. Chemical Physics, 1985, 95, 263-271.	0.9	6
156	Threeâ€dimensional quantum calculation of the vibrational energy levels of ozone. Journal of Chemical Physics, 1985, 83, 1769-1777.	1.2	12
157	A test of the rotational infinite order sudden approximation in molecular fragmentation. Journal of Chemical Physics, 1985, 83, 2954-2958.	1.2	14
158	Infrared bound to quasibound spectrum of HeD+: an application of the artificial channel method. Computational and Theoretical Chemistry, 1985, 120, 175-179.	1.5	0
159	Semiclassical multistate curveâ€crossing models: Reduction of the transition amplitudes to diabatic and adiabatic phase integrals. Journal of Chemical Physics, 1984, 81, 3874-3884.	1.2	13
160	On the occurrence of multiple spectra of eigenvalues in the one-dimensional complex scaled SchrÃ¶dinger equation. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1983, 76, 176-188.	0.2	21
161	Effect of bending on the predissociation dynamics of N2O+. Chemical Physics Letters, 1983, 98, 554-558.	1.2	17
162	Simple models of vibrational bonding. Chemical Physics Letters, 1983, 98, 559-562.	1.2	6

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163	Semiclassical estimate of resonance Raman scattering amplitudes. Molecular Physics, 1982, 45, 161-178.	0.8	2
164	Poles of the scattering amplitude for the repulsive exponential potential: analytic and complex rotation studies. Journal of Physics B: Atomic and Molecular Physics, 1982, 15, 2689-2701.	1.6	24
165	On the resonance spectrum of the one-dimensional schrÃ¶dinger equation. Chemical Physics Letters, 1981, 84, 233-235.	1.2	42
166	On the stabilization angle of the complex rotation method. Chemical Physics Letters, 1981, 78, 13-15.	1.2	9
167	Multichannel quantization and the static stark effect. International Journal of Quantum Chemistry, 1981, 19, 901-906.	1.0	13
168	Multichannel quantization for molecular systems. III. Complex rotation of coordinates. Chemical Physics, 1981, 56, 195-201.	0.9	13
169	Multichannel quantization for molecular systems. II. Resonance studies. Chemical Physics, 1981, 55, 395-406.	0.9	21
170	Multichannel quantization for molecular systems. I. Bound states studies. Chemical Physics, 1980, 52, 199-210.	0.9	30
171	Semiclassical model for accidental predissociation in diatomic molecules. Journal of Molecular Spectroscopy, 1980, 82, 364-378.	0.4	10
172	Continuum resonance Raman scattering of light by diatomic molecules. I. The role of radiative crossings between the potentials of the dressed molecule. Journal of Chemical Physics, 1980, 72, 2670-2682.	1.2	22
173	Multichannel Siegert quantization with complex rotated coordinates: Application to molecular resonances. Physical Review A, 1980, 22, 1817-1819.	1.0	54
174	The wavefunction of the complex coordinate method. Molecular Physics, 1980, 40, 1107-1115.	0.8	44
175	Continuum resonance Raman scattering of light by diatomic molecules. II. Theoretical study of the Q branches of Î”n=1 profiles of molecular bromine. Journal of Chemical Physics, 1980, 72, 2683-2693.	1.2	14
176	Semi-classical estimate of resonance Raman scattering amplitudes. Molecular Physics, 1979, 37, 279-285.	0.8	9
177	Derivation from coupled channel equations of the resonance raman scattering amplitude for a diatomic molecule. Chemical Physics Letters, 1978, 58, 196-201.	1.2	11
178	Coupled equations applied to the photodissociation of linear triatomics: A test of approximate schemes for calculating the line shape and the effect of final states interactions. Journal of Chemical Physics, 1977, 67, 4983-4989.	1.2	28
179	Rovibronic interactions in the photoabsorption spectrum of molecular hydrogen and deuterium: An application of multichannel quantum defect methods. Journal of Chemical Physics, 1977, 66, 5584-5609.	1.2	299
180	Close-coupling methods applied to the calculation of bound-free bidimensional nonseparable Franck-Condon factors. Chemical Physics, 1977, 23, 51-59.	0.9	13

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181	Isotope effects in photofragmentation of linear triatomics. Chemical Physics Letters, 1977, 45, 211-216.	1.2	15
182	Moment analysis of dynamics of photodissociation of linear triatomics. Chemical Physics Letters, 1977, 52, 29-33.	1.2	10
183	Reaction operators for the relative coordinates treatment of atom-diatom collinear collisions. Molecular Physics, 1976, 31, 1-22.	0.8	21
184	Photofragmentation of linear triatomics. Journal of Chemical Physics, 1976, 65, 4035-4048.	1.2	93
185	Energy shifts in the relative coordinates treatment of the collinear collision between an atom and an oscillator. Morse interaction potential. Chemical Physics Letters, 1975, 33, 228-232.	1.2	6
186	Energy shifts in the relative coordinates treatment of the collinear collision between an atom and an oscillator. Exponential repulsive potential. Chemical Physics Letters, 1975, 32, 28-33.	1.2	6
187	Quantum-Defect Theory of ExcitedÎu1â^'Levels ofH2. Physical Review Letters, 1974, 33, 123-126.	2.9	54
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189	On the crude adiabatic molecular vibronic states and their use in the interpretation of radiationless processes in molecules. Chemical Physics Letters, 1973, 20, 40-44.	1.2	28
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192	Evaluation of the level shifts produced on the discrete levels of the BO+u state of the Se2 molecule by the interaction with a repulsive state. Chemical Physics Letters, 1972, 17, 167-171.	1.2	21