Franco A Gianturco

List of Publications by Year
in descending order

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160	2,436	257101	329751
papers	citations	24 h-index	37 g-index

162	162	162	1255
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	HeH⁺ Collisions with H₂: Rotationally Inelastic Cross Sections and Rate Coefficients from Quantum Dynamics at Interstellar Temperatures. Journal of Physical Chemistry A, 2022, 126, 2244-2261.	1.1	11
2	Collision-driven state-changing efficiency of different buffer gases in cold traps: He(¹S), Ar(¹S) and p-H₂(¹Î£) on trapped CN^{â^'}(¹Î£). Physical Chemistry Chemical Physics, 2021, 23, 7703-7713.	1.3	8
3	Vibrational quenching of CNâ^' in collisions with He and Ar. Journal of Chemical Physics, 2021, 154, 084305.	1.2	5
4	Energy-transfer quantum dynamics of HeH+ with He atoms: Rotationally inelastic cross sections and rate coefficients. Journal of Chemical Physics, 2021, 154, 054311.	1.2	10
5	Dynamics of HeHHe⁺ Rotational State Changes Induced by Collision with He: A Possible New Path in Early Universe Chemistry. Journal of Physical Chemistry A, 2021, 125, 3748-3759.	1.1	4
6	Influence of a Supercritical Electric Dipole Moment on the Photodetachment of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">C</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub><mml:msup><mml:m mathvariant="normal">N</mml:mi></mml:mrow><mml:mrow><mml:mo>â^'</mml:mo></mml:mrow></mml:msup></mml:mrow></mml Physical Review Letters, 2021, 127, 043001.	2.9	9
7	Efficiency of rovibrational cooling of HeH+ by collisions with He: Cross sections and rate coefficients from quantum dynamics. Journal of Chemical Physics, 2021, 155, 154301.	1.2	2
8	Rotationally inelastic processes of ${{m{C}}}_{2}^{-}$ (${}^{2}{{m{Sigma }}}_{g}^{+}$) colliding with He (1 S) at low temperatures: ab initio interaction potential, state changing rates and kinetic modelling. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 025201.	0.6	7
9	Rotationally Inelastic Collisions of CN^{â^'} with He: Computing Cross Sections and Rates in the Interstellar Medium. Astrophysical Journal, 2020, 897, 75.	1.6	10
10	Rovibrational quenching of C2â^' anions in collisions with He, Ne, and Ar atoms. Physical Review A, 2020, 102, .	1.0	10
11	Thermalisation of C2â^' with noble gases in cold ion traps. International Journal of Mass Spectrometry, 2020, 457, 116426.	0.7	6
12	Rotational state-changing collisions of C2Hâ^' and C2Nâ^' anions with He under interstellar and cold ion trap conditions: A computational comparison. Journal of Chemical Physics, 2020, 152, 234303.	1.2	9
13	Rotational-state-changing collisions between <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msubsup><mml:mi mathvariant="normal">N</mml:mi><mml:mn>2</mml:mn><mml:mo>+</mml:mo></mml:msubsup></mml:math> and Rb at low energies. Physical Review A, 2020, 101, .	1.0	7
14	Threshold photodetachment spectroscopy of the astrochemical anion CNâ^'. Journal of Chemical Physics, 2020, 153, 184309.	1.2	11
15	Photodetachment in cold ion traps. European Physical Journal D, 2020, 74, 1.	0.6	1
16	Modeling state-selective photodetachment in cold ion traps: Rotational state â€œcrowdingâ€•in small anions. Journal of Chemical Physics, 2019, 151, 144304.	1.2	11
17	Modeling Ionic Reactions at Interstellar Temperatures: The Case of NH₂^{â€“} + H₂ â‡” NH₃ + H^{â€“}. Journal of Physical Chemistry A, 2019, 123, 9905-9918.	1.1	9
18	Modeling Quantum Kinetics in Ion Traps: State-changing Collisions for OH+(3Î£-) Ions with He as a Buffer Gas. ChemPhysChem, 2018, 19, 1866-1875.	1.0	7

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19	Rotational â€˜coolingâ€™ and â€˜heatingâ€™ of OH⁺(³Î£^{â^'}) by collisions with He: quantum dynamics revealing propensity rules under ion trap conditions. Molecular Physics, 2018, 116, 2686-2697.	0.8	4
20	Associative detachment (AD) paths for H and CN^{â^'} in the gas-phase: astrophysical implications. Physical Chemistry Chemical Physics, 2018, 20, 5490-5500.	1.3	9
21	Collisional cooling of internal rotation inMgH+ions trapped with He atoms: Quantum modeling meets experiments in Coulomb crystals. Physical Review A, 2018, 98, .	1.0	5
22	NH2â^' in a cold ion trap with He buffer gas:Ab initioquantum modeling of the interaction potential and of state-changing multichannel dynamics. Journal of Chemical Physics, 2018, 148, 184305.	1.2	4
23	Rotationally inelastic collisions of H2+ ions with He buffer gas: Computing cross sections and rates. Journal of Chemical Physics, 2017, 146, 124310.	1.2	26
24	Investigating the electronic properties and structural features of MgH and of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi>MgH</mml:mi></mml:mrow><mml:mo>â^'< anions. Physical Review A, 2017, 96, .	1.0	4
25	State-changing processes for ions in cold traps: LiHâ^'molecules colliding with He as a buffer gas. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 235201.	0.6	3
26	Nucleophilic substitution with two reactive centers: The CNâ^' + CH3I case. Journal of Chemical Physics, 2015, 143, 184309.	1.2	20
27	CH⁺ Destruction by Reaction with H: Computing Quantum Rates To Model Different Molecular Regions in the Interstellar Medium. Journal of Physical Chemistry A, 2015, 119, 11973-11982.	1.1	17
28	Computing rotational energy transfers of OD^{â^'}/OH^{â^'}in collisions with Rb: isotopic effects and inelastic rates at cold ion-trap conditions. New Journal of Physics, 2015, 17, 123003.	1.2	17
29	Rotational state-changing cold collisions of hydroxyl ions with helium. Nature Physics, 2015, 11, 467-470.	6.5	70
30	A configurational study of helium clusters doped with Heâ^—â^' and He2â^—â^'. Journal of Chemical Physics, 2015, 142, 104303.	1.2	8
31	Quantum Features of Anionic Species He^{*â€“} and He₂^{*â€“} in Small He_N Clusters. Journal of Physical Chemistry A, 2015, 119, 11574-11582.	1.1	5
32	Variational and Path Integral Monte Carlo calculations on Helium Clusters Doped with Metastable Anions He*- and He2*-. Journal of Physics: Conference Series, 2015, 635, 072009.	0.3	0
33	A QUANTUM STUDY OF THE CHEMICAL FORMATION OF CYANO ANIONS IN INNER CORES AND DIFFUSE REGIONS OF INTERSTELLAR MOLECULAR CLOUDS. Astrophysical Journal, 2015, 799, 228.	1.6	31
34	Potential energy surface and bound states of the (X⁴Î£)KRbâ€K complex. International Journal of Quantum Chemistry, 2015, 115, 19-27.	1.0	1
35	Path integral Monte Carlo calculations of calciumâ€doped ⁴He clusters. International Journal of Quantum Chemistry, 2014, 114, 1318-1326.	1.0	4
36	Formation of cyanopolyyne anions in the interstellar medium: The possible role of permanent dipoles. Journal of Chemical Physics, 2014, 141, 054302.	1.2	34

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37	Low-energy positron scattering from gas-phase uracil. European Physical Journal D, 2014, 68, 1.	0.6	13
38	Quantum rotation of Rb2 (3 Î£ u +) attached to HeN droplets: a path-integral Monte Carlo study. European Physical Journal D, 2013, 67, 1.	0.6	10
39	Resonant electron attachment to polar aromatic molecules: consequences for their chemistry in the interstellar medium. European Physical Journal D, 2013, 67, 1.	0.6	5
40	Electron angular distributions and attachment rates in o-Benzyne and Phenyl aromatic molecules: the effect of the permanent dipoles. European Physical Journal D, 2013, 67, 1.	0.6	4
41	Forming metastable carbon-rich anions in planetary atmospheres: the case of diacetylene. European Physical Journal D, 2013, 67, 1.	0.6	7
42	Electron-attachment rates for carbon-rich molecules in protoplanetary atmospheres: the role of chemical differences. Monthly Notices of the Royal Astronomical Society, 2013, 428, 1181-1184.	1.6	9
43	Comment on â€œWeakly bound states of the He-He-Ca triatomic systemâ€• Physical Review A, 2012, 86, .	1.0	2
44	Complexity reduction of astrochemical networks. Monthly Notices of the Royal Astronomical Society, 2012, 425, 1332-1340.	1.6	16
45	Spin-Polarized Rb₂ Interacting with Bosonic He Atoms: Potential Energy Surface and Quantum Structures of Small Clusters. Journal of Physical Chemistry A, 2012, 116, 2394-2404.	1.1	19
46	Binding weakly interacting partners: a study of Caâ€“He2 and its isotopomers. European Physical Journal D, 2012, 66, 1.	0.6	8
47	Metastable anions of polyynes: Dynamics of fragmentation/stabilization in planetary atmospheres after electron attachment. European Physical Journal D, 2012, 66, 1.	0.6	17
48	Quenching vibrations by collisions in cold traps: A quantum study for MgHâ€‰+â€‰ (X 1Î£â€‰+â€‰) with 4He(1S) #. Journal of Chemical Sciences, 2012, 124, 93-97.	0.7	6
49	Cold Chemistry with Ionic Partners: Quantum Features of HeH⁺(¹Î£) with H(¹S) at Ultralow Energies. Journal of Physical Chemistry A, 2011, 115, 8197-8203.	1.1	17
50	Quantum Features of a Barely Bound Molecular Dopant: Cs₂(³Î£_u) in Bosonic Helium Droplets of Variable Size. Journal of Physical Chemistry A, 2011, 115, 6892-6902.	1.1	19
51	Energy transfer in O collisions with He isotopes and Helium escape from Mars. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	18
52	Ion chemistry in the early universe. Astronomy and Astrophysics, 2011, 529, A140.	2.1	45
53	Quenching vibrations of cesium dimers by He at low and ultralow temperatures: quantum dynamical calculations. European Physical Journal D, 2011, 65, 167-175.	0.6	2
54	Testing the lithium chemistry for early universe models with a quantum reactive method. Rendiconti Lincei, 2011, 22, 69-80.	1.0	3

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55	Modelling fragmentations of aminoacids after resonant electron attachment: quantum evidence of possible direct -OH detachment. European Physical Journal D, 2010, 60, 21-30.	0.6	15
56	Stabilizing dicyanoacetylene anions in planetary atmospheres: quantum dynamics of its transient negative ions. European Physical Journal D, 2010, 59, 389-398.	0.6	16
57	Quenching of internal rotations versus collisional cooling at ultralow energies for weakly interacting partners: Cs<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo		

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73	Quenching of molecular ions by He buffer loading at ultralow energies: rotational cooling of OH+(3Î£-) from quantum calculations. European Physical Journal D, 2007, 44, 65-72.	0.6	12
74	Rotational cooling efficiency upon molecular ionization: the case of Li2(a3Î£u +) and Li2 +(X2Î£g +) interacting with 4He. European Physical Journal D, 2007, 45, 267-272.	0.6	10
75	Interaction of NH $${X}^{3}{Sigma}^{-}$$ with Rb and Cs atoms: similarities and differences from an highly correlated ab initio study. Theoretical Chemistry Accounts, 2007, 117, 649-662.	0.5	16
76	Bosonic helium clusters doped by alkali metal cations: interaction forces and analysis of their most stable structures. Theoretical Chemistry Accounts, 2007, 118, 53-65.	0.5	30
77	Electronâ€“molecule scattering in gases at very low energies: a comparison of theory and experiment for the nitrogen target. Molecular Physics, 2006, 104, 3147-3154.	0.8	4
78	Collisional quenching of molecular ro-vibrational energy by He buffer loading at ultralow energies. International Reviews in Physical Chemistry, 2006, 25, 313-351.	0.9	44
79	The structuring of a molecular dopant in a quantum solvent. European Physical Journal D, 2006, 37, 93-103.	0.6	17
80	Modelling electron-N2 scattering in the resonant region. European Physical Journal D, 2006, 38, 495-500.	0.6	12
81	Electron scattering by formic acid in the gas phase: comparing measured and computed angular distributions. European Physical Journal D, 2006, 39, 399-405.	0.6	17
82	Vibrational excitation of acetylene by positron impact. European Physical Journal D, 2006, 39, 407-413.	0.6	5
83	Scattering of electrons from gas-phase N2O(1Î£): Computed cross-sections and angular distributions in comparison with experiments. European Physical Journal D, 2006, 40, 369-375.	0.6	8
84	Adaptive clustering of a quantum solvent: the LiH+ cation in bosonic helium from stochastic calculations. European Physical Journal D, 2006, 40, 377-385.	0.6	12
85	OHâ^'(X1Î£+) collisions with4He(1S) at vanishing energies: a quantum analysis of rotational quenching efficiency. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, S1203-S1213.	0.6	15
86	Quantum scattering ofOH(XÎ2)withHe(S1): Propensity features in rotational relaxation at ultralow energies. Physical Review A, 2006, 73, .	1.0	24
87	IONIC OH AS DOPANT OF HELIUM DROPLETS: AB INITIO POTENTIAL ENERGY SURFACES FOR OH+(3Î£-)-4He, OH-(1Î£-)-4He, AND STABLE STRUCTURES OF THEIR SMALLER CLUSTERS. Journal of Theoretical and Computational Chemistry, 2006, 05, 543-564.	1.8	15
88	The dominant â€œheatingâ€•mode: bending excitation of water molecules by low-energy positron impact. European Physical Journal D, 2005, 33, 221-228.	0.6	13
89	Microsolvation of neutral dopants in small He clusters: relative locations of Li and Na atoms. European Physical Journal D, 2005, 35, 513-520.	0.6	11
90	Modelling electron-induced processes in â€œcondensedâ€•formic acid. European Physical Journal D, 2005, 35, 417-428.	0.6	31

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91	Vibrational inelastic electron-H2 scattering revisited: numerically converged coupled channels space frame calculations with model interactions. European Physical Journal D, 2005, 36, 271-280.	0.6	11
92	Neutral and ionic dopants in helium clusters: interaction forces for the and complexes. Molecular Physics, 2005, 103, 3223-3231.	0.8	14
93	The binding of He4 and He3 to a hydrogen molecule: A computational study for pH2 and oH2. Journal of Chemical Physics, 2005, 122, 084308.	1.2	20
94	Collisional â€˜heatingâ€™ of molecular rotations by positron impact: a computational analysis of the quantum dynamics. Physical Chemistry Chemical Physics, 2005, 7, 318-325.	1.3	7
95	Microsolvation of Li+in Small He Clusters. Li+HenSpecies from Classical and Quantum Calculations. Journal of Chemical Theory and Computation, 2005, 1, 1045-1054.	2.3	32
96	Radiation damage of biosystems mediated by secondary electrons: Resonant precursors for uracil molecules. Journal of Chemical Physics, 2004, 120, 7446-7455.	1.2	70
97	Low-energy electron scattering by cubane: Resonant states and Ramsauerâ€“Townsend features from quantum calculations in the gas phase. Journal of Chemical Physics, 2004, 120, 4172-4181.	1.2	7
98	Rotationally inelastic collisions of electrons with $mathsf{H_2}$ and $mathsf{N_2}$ molecules: converged space-frame calculations at low energies. European Physical Journal D, 2004, 29, 357-365.	0.6	16
99	Charged cores in ionized $mathsf{{^{4}He}}$ clusters II: Ab initio calculations for the $mathsf{{He_{2}^{ + } + He}}$ system and Many-Body fitting of the computed points. European Physical Journal D, 2004, 30, 353-362.	0.6	14
100	Charged cores in ionized $mathsf{{^{4}He}}$ clusters III: A quantum modeling for the collisional relaxation dynamics. European Physical Journal D, 2004, 30, 363-368.	0.6	19
101	Features of chemical reactions at vanishing kinetic energy: the presence of internally ?hot? reagents. European Physical Journal D, 2004, 31, 423-427.	0.6	17
102	Rotational cooling of Li2(1?g+) molecules by ultracold collisions with a helium gas buffer. Theoretical Chemistry Accounts, 2004, 112, 263.	0.5	13
103	Attachment and Solvation of the H-Dopant:Â Structures of NenH-and ArnH-Clusters from Energy-Optimizing Calculationsâ€. Journal of Physical Chemistry A, 2004, 108, 8633-8640.	1.1	5
104	EFFECTS OF IONIC CORES IN SMALL RARE GAS CLUSTERS: POSITIVE AND NEGATIVE CHARGES. , 2004, , 149-156.		0
105	Structural and quantum effects from anionic centers in rare gas clusters: The (Ne)nHâ^’ and (Ne)n+1 systems. Journal of Chemical Physics, 2003, 119, 5570-5582.	1.2	20
106	Accurate potential energy surfaces for the study of lithiumâ€“hydrogen ionic reactions. Journal of Chemical Physics, 2003, 119, 11241-11248.	1.2	67
107	Quantum and classical structures for 4He clusters with the Hâ^’ impurity. Journal of Chemical Physics, 2003, 119, 8276-8288.	1.2	22
108	Cluster nucleation effects in CO(Ar)n: A stochastic analysis. Journal of Chemical Physics, 2002, 117, 709-718.	1.2	10

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109	Photoexcitation of LiH2+ from selected initial states: A time-dependent model. Journal of Chemical Physics, 2002, 117, 177-186.	1.2	4
110	Computing the exchange interaction in electron scattering from polyatomic molecules. Physical Review A, 2002, 65, .	1.0	6
111	Nucleation dynamics in neon trimer photoionization: a time-dependent modelling. Molecular Physics, 2002, 100, 3699-3710.	0.8	4
112	Vibrational effects in a weakly-interacting quantum solvent: The CO molecule in 4He gas and in 4He droplets. Journal of Chemical Physics, 2002, 116, 10170-10182.	1.2	41
113	Electron-Molecule Collisions in the Static-Exchange Correlation-Polarization Approximation. AIP Conference Proceedings, 2002, , .	0.3	1
114	Internal Coordinate Couplings and Symmetry Properties:Â The Search of a Conical Seam in Protonated Oxygen. Journal of Physical Chemistry A, 2001, 105, 5197-5205.	1.1	0
115	Reactive Behavior of the [LiH2]+ System II. Collision-Induced Dissociation and Collinear Reaction Dynamics of LiH++H from Quantum Time Dependent Calculations. Journal of Physical Chemistry A, 2001, 105, 10994-11000.	1.1	28
116	Reactive Behavior of the [LiH2]+ System I. Evaluation of the Lower-lying Electronic Potentials for the Collinear Geometries. Journal of Physical Chemistry A, 2001, 105, 10986-10993.	1.1	33
117	The close-coupling-single center-expansion (CC-SCE) model for electron scattering from polyatomic targets. International Journal of Quantum Chemistry, 2001, 84, 565-579.	1.0	9
118	The rovibrational structure of the He-CO complex from a model interaction potential. Molecular Physics, 2001, 99, 689-698.	0.8	21
119	A multireference valence bond approach to electronic excited states. Journal of Chemical Physics, 2001, 115, 2917-2925.	1.2	32
120	The rovibrational structure of the Arâ€“CO complex from a model interaction potential. Journal of Chemical Physics, 2001, 115, 249-256.	1.2	23
121	Low-energy electron and positron scattering from C[sub 60]: A progress report on calculations. AIP Conference Proceedings, 2000, , .	0.3	0
122	Charge-transfer effects in the gas-phase protonation of ozone: Locating the conical intersections. Journal of Chemical Physics, 2000, 112, 5820-5828.	1.2	9
123	The Heâ€“OCS van der Waals potential from model calculations: Bound states, stable structures, and vibrational couplings. Journal of Chemical Physics, 2000, 113, 3011-3019.	1.2	43
124	Screening ionic motion in sodalite cages: A dynamical study. Journal of Chemical Physics, 1999, 111, 2761-2769.	1.2	7
125	Efimov States forH4eTrimers?. Physical Review Letters, 1999, 82, 1648-1651.	2.9	69
126	Spatial structures and electronic excited states of small protonated helium clusters. International Journal of Quantum Chemistry, 1999, 74, 193-212.	1.0	11

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127	Protonâ^'Water Charge-Transfer Processes:â€‰ Follow-Up Study Using Configuration Interaction Calculations. Journal of Physical Chemistry A, 1999, 103, 7116-7126.	1.1	4
128	Charged chromophoric units in protonated rare-gas clusters: A dynamical simulation. Europhysics Letters, 1998, 44, 585-591.	0.7	36
129	THE SCATTERING OF LOW-ENERGY ELECTRONS AND POSITRONS FROM POLAR TARGETS: EXPERIMENTAL AND THEORETICAL DIFFICULTIES. , 1998, , 57-119.		0
130	Short-range effects in resonant electronâ€“molecule scattering from van der Waals clusters. Journal of Chemical Physics, 1997, 107, 8483-8490.	1.2	5
131	Stability and Fragmentation of Protonated Helium Dimers from ab Initio Calculations of Their Potential Energy Surfaces. Journal of Physical Chemistry A, 1997, 101, 6054-6062.	1.1	35
132	The lower C2v potential energy surfaces of the singlet states of H2O: A computational study. Journal of Chemical Physics, 1996, 104, 5153-5164.	1.2	21
133	The lower C2v potential energy surfaces of the doublet states of H2O+: A computational study. Journal of Chemical Physics, 1996, 105, 7560-7568.	1.2	19
134	One-electron resonances in electron scattering from polyatomic molecules. International Reviews in Physical Chemistry, 1996, 15, 429-466.	0.9	99
135	Low-energy electron scattering from polyatomic molecules: Recent theoretical results. AIP Conference Proceedings, 1996, , .	0.3	0
136	The Weakest Bond:â€‰ Collisions of Helium Dimers with Xenon Atoms. The Journal of Physical Chemistry, 1996, 100, 9206-9215.	2.9	6
137	Polarisation potentials for positron-molecule scattering processes. Zeitschrift FÃ¼r Physik D-Atoms Molecules and Clusters, 1996, 36, 51-63.	1.0	18
138	Stability and structure of rare-gas ionic clusters using density functional methods: A study of helium clusters. , 1996, 60, 593-608.		23
139	Correlation effects and vibronic coupling features in the interaction of Hâ^' ions with N2 molecules. Journal of Chemical Physics, 1996, 105, 156-164.	1.2	7
140	Fragmentation dynamics of ionized argon clusters: an effective potential model. Zeitschrift FÃ¼r Physik D-Atoms Molecules and Clusters, 1995, 35, 115-124.	1.0	13
141	Selective efficiency of vibrational excitations in ionâ€“molecule collisions: A comparison of behavior for H+â€“H2and Hâ^'â€“H2. Journal of Chemical Physics, 1995, 103, 2940-2948.	1.2	37
142	The Arâ€“O2 anisotropic interaction from a global analysis of dynamical properties. Journal of Chemical Physics, 1994, 101, 9624-9634.	1.2	8
143	Approximate calculations of transport properties for the Heâ€“CH4 system. Journal of Chemical Physics, 1994, 100, 4316-4323.	1.2	6
144	Metastable decay of rare gas cluster ions ? the (Ar3)+ system. Zeitschrift FÃ¼r Physik D-Atoms Molecules and Clusters, 1994, 30, 77-77.	1.0	2

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145	Elastic scattering of low and intermediate-energy electrons by Kr and Xe atoms. Zeitschrift FÃ¼r Physik D-Atoms Molecules and Clusters, 1994, 31, 149-159.	1.0	6
146	Quantum and classical calculations of transport and relaxation cross sections in Heâ€“CO mixtures. Journal of Chemical Physics, 1993, 98, 3833-3844.	1.2	30
147	Excited electronic states of protonated acetylene. Journal of Chemical Physics, 1991, 95, 7965-7968.	1.2	4
148	Potential surfaces and nonadiabatic couplings in ionic systems: A study of the (O2H)+ interactions. International Journal of Quantum Chemistry, 1990, 37, 729-746.	1.0	10
149	The Heâ€“Co2 interaction revisited: Approximate rotational energy transfer efficiency indices and computed transport coefficients. Journal of Chemical Physics, 1990, 93, 1641-1651.	1.2	5
150	Second virial coefficients for O2and N2mixtures with rare gases: A computational assessment. Journal of Chemical Physics, 1989, 91, 5352-5358.	1.2	15
151	Secondâ€order corrections to transport coefficients of binary gaseous mixtures: N2 with He, Ne, and Ar. Journal of Chemical Physics, 1989, 91, 2525-2536.	1.2	23
152	Dynamical coupling and energy transfer in weakly bound molecular complexes. International Reviews in Physical Chemistry, 1988, 7, 1-17.	0.9	8
153	Lowâ€energy electron scattering from water molecules: A study of angular distributions. Journal of Chemical Physics, 1987, 87, 6468-6473.	1.2	39
154	Rotational predissociation dynamics in weakly bound molecular systems: The Ar?N2 and Ar?O2 examples. International Journal of Quantum Chemistry, 1987, 32, 389-405.	1.0	3
155	Collisional transfer of rovibrational energy from quantum calculations. II. The case of LiH with He. International Journal of Quantum Chemistry, 1985, 28, 499-516.	1.0	5
156	AdiabaticSCF potential energy curves relevant to proton-oxygen molecular collisions. International Journal of Quantum Chemistry, 1985, 28, 553-564.	1.0	20
157	Computed rotational rainbows from realistic potential energy surfaces. Journal of Chemical Physics, 1985, 83, 1049-1058.	1.2	22
158	Differential cross sections for (R,T) energy transfer in Heâ€“HF collisions: Comparing theory with experiments. Journal of Chemical Physics, 1984, 80, 4997-5002.	1.2	19
159	Beyond the helium buffer: 12Câ^'2 rotational cooling in cold traps with H2 as a partner gas: interaction forces and quantum dynamics. Molecular Physics, 0, , e1938267.	0.8	2
160	Model Potential Energy Surfaces for Inelastic and Charge-Transfer Processes in Ion-Molecule Collisions. Advances in Chemical Physics, 0, , 135-186.	0.3	10