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	One-electron resonances in electron scattering from polyatomic molecules. International Reviews in Physical Chemistry, 1996, 15, 429-466.	0.9	99
2	Radiation damage of biosystems mediated by secondary electrons: Resonant precursors for uracil molecules. Journal of Chemical Physics, 2004, 120, 7446-7455.	1.2	70
3	Rotational state-changing cold collisions of hydroxyl ions with helium. Nature Physics, 2015, 11, 467-470.	6.5	70
4	Efimov States forH4eTrimers?. Physical Review Letters, 1999, 82, 1648-1651.	2.9	69
5	Accurate potential energy surfaces for the study of lithiumâ€“hydrogen ionic reactions. Journal of Chemical Physics, 2003, 119, 11241-11248.	1.2	67
6	Ring-breaking electron attachment to uracil: Following bond dissociations via evolving resonances. Journal of Chemical Physics, 2008, 128, 174302.	1.2	57
7	Ion chemistry in the early universe. Astronomy and Astrophysics, 2011, 529, A140.	2.1	45
8	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
9	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
10	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
11	Lowâ€energy electron scattering from water molecules: A study of angular distributions. Journal of Chemical Physics, 1987, 87, 6468-6473.	1.2	39
12	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
13	Charged chromophoric units in protonated rare-gas clusters: A dynamical simulation. Europhysics Letters, 1998, 44, 585-591.	0.7	36
14	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
15	Dissociative Electron Attachment to Formamide: Direct and Indirect Pathways from Resonant Intermediates. Journal of Chemical Theory and Computation, 2009, 5, 217-221.	2.3	34
16	Formation of cyanopolyyne anions in the interstellar medium: The possible role of permanent dipoles. Journal of Chemical Physics, 2014, 141, 054302.	1.2	34
17	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
18	A multireference valence bond approach to electronic excited states. Journal of Chemical Physics, 2001, 115, 2917-2925.	1.2	32

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19	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
20	Modelling electron-induced processes in â€œcondensedâ€•formic acid. European Physical Journal D, 2005, 35, 417-428.	0.6	31
21	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
22	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
23	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
24	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
25	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
26	Quantum scattering ofOH(XÎ2)withHe(S1): Propensity features in rotational relaxation at ultralow energies. Physical Review A, 2006, 73, .	1.0	24
27	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
28	Stability and structure of rare-gas ionic clusters using density functional methods: A study of helium clusters. , 1996, 60, 593-608.		23
29	The rovibrational structure of the Arâ€“CO complex from a model interaction potential. Journal of Chemical Physics, 2001, 115, 249-256.	1.2	23
30	Structuring a Quantum Solvent around a Weakly Bound Dopant: The Heâ^'Cs₂(³Î£_u) Complex. Journal of Physical Chemistry A, 2009, 113, 14718-14729.	1.1	23
31	Computed rotational rainbows from realistic potential energy surfaces. Journal of Chemical Physics, 1985, 83, 1049-1058.	1.2	22
32	Quantum and classical structures for 4He clusters with the Hâ^' impurity. Journal of Chemical Physics, 2003, 119, 8276-8288.	1.2	22
33	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
34	The rovibrational structure of the He-CO complex from a model interaction potential. Molecular Physics, 2001, 99, 689-698.	0.8	21
35	AdiabaticSCF potential energy curves relevant to proton-oxygen molecular collisions. International Journal of Quantum Chemistry, 1985, 28, 553-564.	1.0	20
36	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

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37	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
38	Nucleophilic substitution with two reactive centers: The CNâ^' + CH3I case. Journal of Chemical Physics, 2015, 143, 184309.	1.2	20
39	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
40	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
41	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
42	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
43	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
44	Polarisation potentials for positron-molecule scattering processes. Zeitschrift FÃ¼r Physik D-Atoms Molecules and Clusters, 1996, 36, 51-63.	1.0	18
45	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
46	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
47	The structuring of a molecular dopant in a quantum solvent. European Physical Journal D, 2006, 37, 93-103.	0.6	17
48	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
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	Metastable anions of polyynes: Dynamics of fragmentation/stabilization in planetary atmospheres after electron attachment. European Physical Journal D, 2012, 66, 1.	0.6	17
51	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
52	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
53	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
54	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

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55	Stabilizing dicyanoacetylene anions in planetary atmospheres: quantum dynamics of its transient negative ions. European Physical Journal D, 2010, 59, 389-398.	0.6	16
56	Complexity reduction of astrochemical networks. Monthly Notices of the Royal Astronomical Society, 2012, 425, 1332-1340.	1.6	16
57	Second virial coefficients for O2and N2mixtures with rare gases: A computational assessment. Journal of Chemical Physics, 1989, 91, 5352-5358.	1.2	15
58	OHâˆ’(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
59	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
60	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
61	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
62	Neutral and ionic dopants in helium clusters: interaction forces for the and complexes. Molecular Physics, 2005, 103, 3223-3231.	0.8	14
63	Doped helium clusters analyzed through quantum chemistry methods. International Journal of Quantum Chemistry, 2007, 107, 2902-2921.	1.0	14
64	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
65	Rotational cooling of Li2(1?g+) molecules by ultracold collisions with a helium gas buffer. Theoretical Chemistry Accounts, 2004, 112, 263.	0.5	13
66	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
67	Ionic interactions and collision dynamics in cold traps: rotational quenching of OHâˆ’(1Î£+) by Rb(2S). European Physical Journal D, 2008, 49, 85-92.	0.6	13
68	Low-energy positron scattering from gas-phase uracil. European Physical Journal D, 2014, 68, 1.	0.6	13
69	Modelling electron-N2 scattering in the resonant region. European Physical Journal D, 2006, 38, 495-500.	0.6	12
70	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
71	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
72	Modelling dissociative dynamics of biosystems after metastable electron attachment: the sugar backbones. European Physical Journal D, 2009, 51, 131-136.	0.6	12

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73	Spatial structures and electronic excited states of small protonated helium clusters. International Journal of Quantum Chemistry, 1999, 74, 193-212.	1.0	11
74	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
75	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
76	Metastable anion fragmentations after resonant attachment: Deoxyribosic structures from quantum electron dynamics. International Journal of Quantum Chemistry, 2008, 108, 1878-1887.	1.0	11
77	Concluding remarks: achievements and challenges in cold and ultracold molecules. Faraday Discussions, 2009, 142, 463.	1.6	11
78	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
79	Threshold photodetachment spectroscopy of the astrochemical anion CNâ^'. Journal of Chemical Physics, 2020, 153, 184309.	1.2	11
80	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
81	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
82	Cluster nucleation effects in CO(Ar)n: A stochastic analysis. Journal of Chemical Physics, 2002, 117, 709-718.	1.2	10
83	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
84	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
85	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
86	Rovibrational quenching of C2â^' anions in collisions with He, Ne, and Ar atoms. Physical Review A, 2020, 102, .	1.0	10
87	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
88	Model Potential Energy Surfaces for Inelastic and Charge-Transfer Processes in Ion-Molecule Collisions. Advances in Chemical Physics, 0, , 135-186.	0.3	10
89	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
90	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

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91	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
92	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
93	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
94	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
95	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:mi mathvariant="normal">N</mml:mi></mml:mrow><mml:mrow><mml:mo>â^'</mml:mo></mml:mrow></mml:msup></mml:mrow></mml:math>. Physical Review Letters, 2021, 127, 043001.	2.9	9
96	Dynamical coupling and energy transfer in weakly bound molecular complexes. International Reviews in Physical Chemistry, 1988, 7, 1-17.	0.9	8
97	The Arâ€"O2 anisotropic interaction from a global analysis of dynamical properties. Journal of Chemical Physics, 1994, 101, 9624-9634.	1.2	8
98	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
99	Low-energy electron scattering from gaseous CS2: angular distributions and effect of exchange forces. European Physical Journal D, 2007, 42, 85-91.	0.6	8
100	LiH-(X2Î£+)+3,4He rotational quenching at ultralow energies: spin-flip and isotopic effects from quantum dynamics on an ionic system. European Physical Journal D, 2009, 55, 601-611.	0.6	8
101	Computed vibrational excitation of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CF</mml:mtext></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> low-energy electrons and positrons: Comparing calculations and experiments. Physical Review A, 2009, 80, .	1.0	8
102	Binding weakly interacting partners: a study of Caâ€"He2 and its isotopomers. European Physical Journal D, 2012, 66, 1.	0.6	8
103	A configurational study of helium clusters doped with Heâ^—â^' and He2â^—â^'. Journal of Chemical Physics, 2015, 142, 104303.	1.2	8
104	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
105	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
106	Screening ionic motion in sodalite cages: A dynamical study. Journal of Chemical Physics, 1999, 111, 2761-2769.	1.2	7
107	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
108	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

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109	Quenching efficiency of â€œhot" polar molecules by He buffer gas at ultralow energies: quantum results for MgH and LiH rotations. European Physical Journal D, 2008, 48, 75-82.	0.6	7
110	Forming metastable carbon-rich anions in planetary atmospheres: the case of diacetylene. European Physical Journal D, 2013, 67, 1.	0.6	7
111	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
112	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
113	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
114	Approximate calculations of transport properties for the Heâ€“CH4 system. Journal of Chemical Physics, 1994, 100, 4316-4323.	1.2	6
115	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
116	The Weakest Bond:â€‰ Collisions of Helium Dimers with Xenon Atoms. The Journal of Physical Chemistry, 1996, 100, 9206-9215.	2.9	6
117	Computing the exchange interaction in electron scattering from polyatomic molecules. Physical Review A, 2002, 65, .	1.0	6
118	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
119	Thermalisation of C2â^' with noble gases in cold ion traps. International Journal of Mass Spectrometry, 2020, 457, 116426.	0.7	6
120	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
121	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
122	Short-range effects in resonant electronâ€“molecule scattering from van der Waals clusters. Journal of Chemical Physics, 1997, 107, 8483-8490.	1.2	5
123	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
124	Vibrational excitation of acetylene by positron impact. European Physical Journal D, 2006, 39, 407-413.	0.6	5
125	Molecular ions in ultracold atomic gases: computed electronic interactions for MgH+(X1Î£+) with Rb. European Physical Journal D, 2008, 46, 443-451.	0.6	5
126	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

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127	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
128	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
129	Vibrational quenching of CNâ¯ in collisions with He and Ar. Journal of Chemical Physics, 2021, 154, 084305.	1.2	5
130	Excited electronic states of protonated acetylene. Journal of Chemical Physics, 1991, 95, 7965-7968.	1.2	4
131	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
132	Photoexcitation of LiH2+ from selected initial states: A time-dependent model. Journal of Chemical Physics, 2002, 117, 177-186.	1.2	4
133	Nucleation dynamics in neon trimer photoionization: a time-dependent modelling. Molecular Physics, 2002, 100, 3699-3710.	0.8	4
134	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
135	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
136	Path integral Monte Carlo calculations of calciumâ€doped ⁴He clusters. International Journal of Quantum Chemistry, 2014, 114, 1318-1326.	1.0	4
137	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
138	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
139	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
140	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
141	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
142	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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145	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
146	Exchanging the ionic partner in a linear Paul trap: the MgH+(X1Î£+) ion with neutral Rb(2S). European Physical Journal D, 2009, 54, 31-41.	0.6	2
147	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
148	Comment on â€œWeakly bound states of the He-He-Ca triatomic systemâ€• Physical Review A, 2012, 86, .	1.0	2
149	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
150	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
151	Electron-Molecule Collisions in the Static-Exchange Correlation-Polarization Approximation. AIP Conference Proceedings, 2002, , .	0.3	1
152	Potential energy surface and bound states of the (X⁴Î£)KRbâ€K complex. International Journal of Quantum Chemistry, 2015, 115, 19-27.	1.0	1
153	Photodetachment in cold ion traps. European Physical Journal D, 2020, 74, 1.	0.6	1
154	QUANTUM STRUCTURING OF 4He ATOMS AROUND IONIC DOPANTS: ENERGETICS OF Li+, Na+ AND K+ FROM STOCHASTIC CALCULATIONS. , 2008, , 227-240.		1
155	Low-energy electron scattering from polyatomic molecules: Recent theoretical results. AIP Conference Proceedings, 1996, , .	0.3	0
156	THE SCATTERING OF LOW-ENERGY ELECTRONS AND POSITRONS FROM POLAR TARGETS: EXPERIMENTAL AND THEORETICAL DIFFICULTIES. , 1998, , 57-119.		0
157	Low-energy electron and positron scattering from C[sub 60]: A progress report on calculations. AIP Conference Proceedings, 2000, , .	0.3	0
158	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
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