

Pablo Villarreal

List of Publications by Year in descending order

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233
papers

3,748
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1243
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#	ARTICLE	IF	CITATIONS
1	Helium structures around SF ₅ ⁺ and SF ₆ ⁺ : novel intermolecular potential and mass spectrometry experiments. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 2004-2014.	1.3	5
2	A Path Integral Molecular Dynamics Simulation of a Harpoon-Type Redox Reaction in a Helium Nanodroplet. <i>Molecules</i> , 2021, 26, 5783.	1.7	8
3	Modelling interactions of alkali-cation dimers in He clusters. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 202033.	0.3	0
4	Rotational-state-changing collisions between N^+ and Rb at low energies. <i>Physical Review A</i> , 2020, 101, .	1.0	7
5	Theoretical Study of Cationic Alkali Dimers Interacting with He: Li ₂ ⁺ and Na ₂ ⁺ He van der Waals Complexes. <i>Journal of Physical Chemistry A</i> , 2019, 123, 7814-7821.	1.1	9
6	A combined experimental and theoretical investigation of Cs ⁺ ions solvated in He _N clusters. <i>Journal of Chemical Physics</i> , 2019, 150, 154304.	1.2	17
7	N ₂ (2 Σ_g^-) and Rb(2S) in a hybrid trap: modeling ion losses from radiative association paths. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 8342-8351.	1.3	3
8	Limitations of a Theoretical Method to Calculate the Rovibrational Spectrum of Trimers: H ₃ ⁺ . <i>Few-Body Systems</i> , 2018, 59, 1.	0.7	3
9	Theoretical methods for the rotation-vibration spectra of triatomic molecules: distributed Gaussian functions compared with hyperspherical coordinates. <i>International Reviews in Physical Chemistry</i> , 2018, 37, 329-361.	0.9	4
10	Symmetry analysis of trimers rovibrational spectra: the case of Ne ₃ . <i>European Physical Journal D</i> , 2018, 72, 1.	0.6	3
11	Formation of rubidium dimers on the surface of helium clusters: a first step through quantum molecular dynamics simulations. <i>European Physical Journal D</i> , 2018, 72, 1.	0.6	22
12	Atomic cluster collisions: ISACC-2015 (7th International Symposium)*. <i>European Physical Journal D</i> , 2017, 71, 1.	0.6	3
13	Comparative investigation of pure and mixed rare gas atoms on coronene molecules. <i>Journal of Chemical Physics</i> , 2017, 146, 034302.	1.2	16
14	Adsorption of molecular hydrogen on coronene with a new potential energy surface. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 26358-26368.	1.3	22
15	Rb ₂ (Σ_u^+) Dimer Interacting with He Atoms: Quantum Structures of Small Clusters and Reactive Scattering Calculations $Rb + RbHe \rightarrow Rb_2 (\Sigma) + He$. <i>Journal of Chemical Physics</i> , 2017, 146, 97-118.	0.2	0
16	Examination of the Feynman-Hibbs Approach in the Study of Ne _N -Coronene Clusters at Low Temperatures. <i>Journal of Physical Chemistry A</i> , 2016, 120, 5370-5379.	1.1	16
17	Path integral Monte Carlo investigations on doped helium clusters. <i>International Reviews in Physical Chemistry</i> , 2016, 35, 37-68.	0.9	22
18	Coronene molecules in helium clusters: Quantum and classical studies of energies and configurations. <i>Journal of Chemical Physics</i> , 2015, 143, 224306.	1.2	28

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19	A full-configuration-interaction nuclear orbital approach and application for small doped He clusters. , 2015, , .		0
20	Structural changes in water and Ar-water clusters under high pressure. Journal of Physics: Conference Series, 2015, 635, 032008.	0.3	0
21	Computational investigations of the thermodynamic properties of size-selected water and Ar-water clusters: high-pressure transitions. Physical Chemistry Chemical Physics, 2015, 17, 8792-8801.	1.3	22
22	A configurational study of helium clusters doped with He ⁻ and He ²⁻ . Journal of Chemical Physics, 2015, 142, 104303.	1.2	8
23	Quantum Features of Anionic Species He ⁺ and He ₂ ⁺ in Small He _N Clusters. Journal of Physical Chemistry A, 2015, 119, 11574-11582.	1.1	5
24	Variational and Path Integral Monte Carlo calculations on Helium Clusters Doped with Metastable Anions He [*] - and He ₂ [*] -. Journal of Physics: Conference Series, 2015, 635, 072009.	0.3	0
25	Potential energy surface and bound states of the (X ⁺) ₄ KRbK complex. International Journal of Quantum Chemistry, 2015, 115, 19-27.	1.0	1
26	Reactive scattering calculations for ⁸⁷ Rb+ ⁸⁷ RbHe ⁺ Rb ₂ (³ Σ _u ⁺ ,v)+He from ultralow to intermediate energies. Journal of Chemical Physics, 2015, 142, 164304.	1.2	8
27	Path integral Monte Carlo calculations of calcium-doped ⁴ He clusters. International Journal of Quantum Chemistry, 2014, 114, 1318-1326.	1.0	4
28	Quantum Molecular Processes Induced by Electrons, Positrons, Atoms, and Ions: From eV to Nano-eV. Journal of Physical Chemistry A, 2014, 118, 6299-6300.	1.1	0
29	Theoretical simulations of the vibrational predissociation spectra of H ₅ ⁺ and D ₅ ⁺ clusters. Highlights in Theoretical Chemistry, 2014, , 125-131.	0.0	0
30	Quantum rotation of Rb ₂ (³ Σ _u ⁺) attached to HeN droplets: a path-integral Monte Carlo study. European Physical Journal D, 2013, 67, 1.	0.6	10
31	Unravelling Coriolis temperature-dependent effects on doped helium clusters: Vib-rotational Raman spectra of (3,4He) ₄ Cl ₂ (X). Chemical Physics Letters, 2013, 555, 12-18.	1.2	3
32	Solvent states and spectroscopy of doped helium clusters as a quantum-chemistry-like problem. Physical Chemistry Chemical Physics, 2013, 15, 10126.	1.3	11
33	Including nuclear quantum effects into highly correlated electronic structure calculations of weakly bound systems. Journal of Chemical Physics, 2013, 138, 184113.	1.2	14
34	Weakly bound finite systems: (4He) _N Rb ₂ (³ Σ _u), clustering structures from a quantum Monte Carlo approach. Journal of Physics Condensed Matter, 2012, 24, 104014.	0.7	4
35	Binding energies and structures of Ca-He ₂ weakly bound triatomic complexes. Physical Review A, 2012, 86, .	1.0	9
36	Comment on "Weakly bound states of the He-He-Ca triatomic system". Physical Review A, 2012, 86, .	1.0	2

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37	Simulation of the infrared predissociation spectra of H ₅ ⁺ . <i>Physical Review A</i> , 2012, 85, .	1.0	16
38	Direct Path-Integral Monte-Carlo simulations of H ₅ /D ₅ clusters: thermal equilibrium state properties. <i>Journal of Physics: Conference Series</i> , 2012, 388, 122001.	0.3	0
39	A quantum chemistry approach to energies, structures, and spectroscopy of doped helium clusters. , 2012, , .		0
40	Theoretical Investigation of the He ₄ Br ₂ Conformers. <i>Journal of Physical Chemistry A</i> , 2012, 116, 7169-7176.	1.1	4
41	Spin-Polarized Rb ₂ Interacting with Bosonic He Atoms: Potential Energy Surface and Quantum Structures of Small Clusters. <i>Journal of Physical Chemistry A</i> , 2012, 116, 2394-2404.	1.1	19
42	Helium aggregates doped with alkali dimer impurities: A finite temperature study of complexes. <i>Computational and Theoretical Chemistry</i> , 2012, 990, 106-111.	1.1	10
43	Binding weakly interacting partners: a study of Ca ⁺ He ₂ and its isotopomers. <i>European Physical Journal D</i> , 2012, 66, 1.	0.6	8
44	He ₂ interaction potential based on an interpolation scheme. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 2971-2975.	1.0	13
45	Theoretical simulations of the vibrational predissociation spectra of H ₅ ⁺ and D ₅ ⁺ clusters. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	0.5	10
46	New trends in atomic and molecular clusters (in honour of Gerardo Delgado-Barrio). <i>Chemical Physics</i> , 2012, 399, 1-3.	0.9	0
47	Path integral Monte Carlo studies of the H ₅ ⁺ /D ₅ ⁺ clusters using <i>ab initio</i> potential surfaces. <i>Physica Scripta</i> , 2011, 84, 028109.	1.2	16
48	Quantum Features of a Barely Bound Molecular Dopant: Cs ₂ (³ He _u) in Bosonic Helium Droplets of Variable Size. <i>Journal of Physical Chemistry A</i> , 2011, 115, 6892-6902.	1.1	19
49	Internal Proton Transfer and H ₂ Rotations in the H ₅ ⁺ Cluster: A Marked Influence on Its Thermal Equilibrium State. <i>Journal of Physical Chemistry A</i> , 2011, 115, 2483-2488.	1.1	30
50	Ab initio characterization of the Ne ⁺ 12 van der Waals complex: Intermolecular potentials and vibrational bound states. <i>Journal of Chemical Physics</i> , 2011, 134, 214304.	1.2	24
51	Molecular dynamics simulations of rigid and flexible water models: Temperature dependence of viscosity. <i>Chemical Physics</i> , 2011, 388, 9-18.	0.9	54
52	Microscopic description of small doped ³ He clusters through the full ϵ -configuration interaction nuclear orbital approach: The (³ He) _N Br ₂ (^X) case revisited. <i>International Journal of Quantum Chemistry</i> , 2011, 111, 406-415.	1.0	13
53	Global potential energy surface for the ground electronic state of H: A DFT approach. <i>International Journal of Quantum Chemistry</i> , 2011, 111, 368-374.	1.0	12
54	Filtered stress autocorrelation functions of liquid water models. <i>International Journal of Quantum Chemistry</i> , 2011, 111, 375-386.	1.0	4

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73	HeI ₂ Van der Waals Complex: Ab initio Ground and Electronic Excited Potential Surfaces for Studying Dynamics. , 2009, , .		1
74	Ab initio interaction potentials for X and B excited states of HeH ₂ for studying dynamics. Journal of Physics: Conference Series, 2009, 194, 122001.	0.3	0
75	Symmetry assignment in the distributed Gaussian functions method to study homonuclear rotating trimers. Chemical Physics Letters, 2008, 460, 417-422.	1.2	9
76	Viscosity of Liquid Water via Equilibrium Molecular Dynamics Simulations. Progress in Theoretical Chemistry and Physics, 2008, , 351-361.	0.2	10
77	Exact, Born-Oppenheimer, and quantum-chemistry-like calculations in helium clusters doped with light molecules: The He ₂ N ₂ (X) system. Journal of Chemical Physics, 2008, 128, 164313.	1.2	9
78	An inversion technique for the calculation of embedding potentials. Journal of Chemical Physics, 2008, 129, 184104.	1.2	93
79	Ab initio potential energy surface and spectrum of the B(̂3) state of the HeI ₂ complex. Journal of Chemical Physics, 2007, 126, 204301.	1.2	31
80	Ab initio vibrational predissociation dynamics of HeH ₂ (B) complex. Journal of Chemical Physics, 2007, 126, 244314.	1.2	31
81	Spectral simulations of polar diatomic molecules immersed in He clusters: application to the ICl (X) molecule. Physica Scripta, 2007, 76, C96-C103.	1.2	14
82	Dynamics and Potential Energy Surfaces for small to medium size He _n -dihalogen clusters. AIP Conference Proceedings, 2007, , .	0.3	0
83	Key role of spin-orbit effects in the relaxation of CO ₂ (010) by thermal collisions with O(3Pj). Molecular Physics, 2007, 105, 1171-1181.	0.8	11
84	Vibrational and rotational bound states in floppy triatomic systems: The distributed Gaussian functions approach. Physics Reports, 2007, 452, 1-32.	10.3	22
85	Exact and quantum chemistry-like calculations in helium doped clusters: The He ₂ Br ₂ (X) example. International Journal of Quantum Chemistry, 2007, 107, 2756-2762.	1.0	13
86	Doped helium clusters analyzed through quantum chemistry methods. International Journal of Quantum Chemistry, 2007, 107, 2902-2921.	1.0	14
87	Additive intermolecular potentials from ab initio calculations: trends in Rg ₂ -dihalogen van der Waals trimers. Theoretical Chemistry Accounts, 2007, 118, 511-517.	0.5	14
88	Potential energy surfaces and dynamics of He _n Br ₂ van der Waals complexes. Progress in Theoretical Chemistry and Physics, 2007, , 193-202.	0.2	0
89	A theoretical study of He ₂ ICl van der Waals cluster. Journal of Chemical Physics, 2006, 125, 014313.	1.2	34
90	Rovibrational Structures in Floppy Triatomics: Distributed Gaussian Functions Treatment for the Ne ₂ H-System. Journal of Physical Chemistry A, 2006, 110, 5487-5494.	1.1	8

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91	An overview on potential energy surfaces of rare-gas dihalogen van der Waals clusters. <i>Physica Scripta</i> , 2006, 73, C57-C63.	1.2	13
92	A full-configuration interaction nuclear orbital method to study doped HeN ₃ clusters (N ^{1/2}). <i>Journal of Chemical Physics</i> , 2006, 125, 221101.	1.2	26
93	Vibrational quenching of CO ₂ (010) by collisions with O(³ P) at thermal energies: A quantum-mechanical study. <i>Journal of Chemical Physics</i> , 2006, 124, 164302.	1.2	15
94	Polar di-halogen molecules solvated in bosonic helium clusters: The paradigm of Cl(X). <i>Physical Review A</i> , 2006, 74, .	1.0	33
95	STRUCTURE AND DYNAMICS OF VAN DER WAALS COMPLEXES: FROM TRIATOMIC TO MEDIUM SIZE CLUSTERS. , 2006, , .		0
96	AB INITIO VAN DERWAALS POTENTIAL ENERGYSURFACES APPLICATION TO COMPLEXES OF BROMINE MOLECULE WITH HELIUM ATOMS. , 2006, , 347-369.		0
97	Br ₂ (X) Microsolvation in Helium Clusters: Effect of the Interaction on the Quantum Solvent Density Distribution. <i>ChemPhysChem</i> , 2005, 6, 1348-1356.	1.0	19
98	Ab initio calculations, potential representation and vibrational dynamics of He ₂ Br ₂ van der Waals complex. <i>Journal of Chemical Physics</i> , 2005, 122, 044305.	1.2	36
99	Energies and density distributions of (He ₄) _N clusters doped with Br ₂ (X): A Hartree-like approach. <i>Physical Review A</i> , 2005, 71, .	1.0	35
100	The binding of He ₄ and He ₃ to a hydrogen molecule: A computational study for pH ₂ and oH ₂ . <i>Journal of Chemical Physics</i> , 2005, 122, 084308.	1.2	20
101	A complete configurational study for the bound states of Ne trimers. <i>Journal of Chemical Physics</i> , 2005, 122, 084313.	1.2	21
102	Bound-state energies in argon trimers via a variational expansion: The effects from many-body corrections. <i>Journal of Chemical Physics</i> , 2005, 122, 144319.	1.2	23
103	Role of Boson-Fermion Statistics on the Raman Spectra of Br ₂ (X) in Helium Clusters. <i>Physical Review Letters</i> , 2004, 93, 053401.	2.9	46
104	The open-shell interaction of He with the B ² Σ ⁺ (0 ⁺) state of Br ₂ : An ab initio study and its comparison with a diatomics-in-molecule perturbation model. <i>Journal of Chemical Physics</i> , 2004, 120, 2182-2192.	1.2	20
105	HeBr ₂ complex: ground-state potential and vibrational dynamics from ab initio calculations. <i>Molecular Physics</i> , 2004, 102, 2277-2283.	0.8	37
106	Raman spectra of (He) _N -Br ₂ (X) clusters: The role of boson/fermion statistics in a quantum solvent. <i>Journal of Chemical Physics</i> , 2004, 121, 2975-2984.	1.2	25
107	Three-Dimensional ab Initio Potential and Ground State Dynamics of the He ₂ Complex. <i>Journal of Physical Chemistry A</i> , 2004, 108, 6065-6071.	1.1	36
108	Structures and Energetics of H _n ⁺ Clusters (n = 5-11). <i>ChemInform</i> , 2003, 34, no.	0.1	1

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109	CCSD(T) potential energy surface and bound rovibrational level calculations for the Ar \cdots ICl(X) complex. <i>Chemical Physics Letters</i> , 2003, 375, 328-336.	1.2	31
110	Structure and bonding of ArClF: Intermolecular potential surface. <i>Israel Journal of Chemistry</i> , 2003, 43, 279-286.	1.0	9
111	Structures and Energetics of Clusters ($n = 5\text{--}11$). <i>Journal of Physical Chemistry A</i> , 2003, 107, 4768-4772.	1.1	42
112	CCSD(T) intermolecular potential between He atom and ClF molecule: Comparison with experiment. <i>Journal of Chemical Physics</i> , 2003, 119, 4216-4222.	1.2	36
113	The 4He Trimer: Structure and Energetics of a Very Unusual Molecule. <i>Collection of Czechoslovak Chemical Communications</i> , 2003, 68, 1-22.	1.0	6
114	Vibrational predissociation of NeBr ₂ ($X, \nu=1$) using an ab initio potential energy surface. <i>Journal of Chemical Physics</i> , 2002, 117, 10019-10025.	1.2	26
115	He ⁷⁹ Br ₂ $B, v=8 \rightarrow X, v=3=0$ excitation spectrum: Ab initio prediction and spectroscopic manifestation of a linear isomer. <i>Journal of Chemical Physics</i> , 2002, 117, 6117-6120.	1.2	37
116	The van der Waals potential energy surfaces and structures of He \cdots ICl and Ne \cdots ICl clusters. <i>Journal of Chemical Physics</i> , 2002, 117, 7017-7023.	1.2	51
117			

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127	Effective resolvent applied to interacting resonances. European Physical Journal D, 2001, 15, 215-219.	0.6	5
128	Rotation-vibration interaction in 4He trimers. Chemical Physics Letters, 2001, 335, 105-110.	1.2	10
129	The structure of a weakly bound ionic trimer: Calculations for the $4\text{He}_2\text{H}^+$ complex. Journal of Chemical Physics, 2001, 114, 5520-5530.	1.2	18
130	Photodissociation of $\text{NeBr}_2(\text{B})$ below and above the dissociation limit of $\text{Br}_2(\text{B})$. Journal of Chemical Physics, 2001, 115, 2566-2575.	1.2	23
131	González-Lezana et al. Reply. Physical Review Letters, 2001, 86, 4190-4190.	2.9	4
132	Application of a time-dependent Hartree approach on several surfaces to the vibrational predissociation of Ne_2I_2 . Molecular Physics, 2000, 98, 1783-1791.	0.8	3
133	Blueshifts of the $\text{B}^1\Sigma$ excitation spectra of He_7Br_2 using a DIM-based potential. Chemical Physics Letters, 2000, 318, 578-584.	1.2	14
134	Searching for Efimov states in triatomic systems: The case of LiHe_2 . Europhysics Letters, 2000, 50, 567-573.	0.7	30
135	Theoretical simulations of the $\text{He}_7\text{Br}_2^{\text{B}}, v=8^1\Sigma, v^3=0$ excitation spectrum: Spectroscopic manifestation of a linear isomer?. Journal of Chemical Physics, 2000, 113, 4620-4628.	1.2	25
136	The weakly bound ground state of the LiHe_2 triatomic system. Physical Chemistry Chemical Physics, 2000, 2, 4067-4073.	1.3	41
137	Diffusion Monte-Carlo Calculations of Quasi-Bound States of Rare Gas-Halogen Clusters: a Diabatic Approach. , 2000, , 93-102.		0
138	Comparative configurational study for He, Ne, and Ar trimers. Journal of Chemical Physics, 1999, 110, 9000-9010.	1.2	70
139	Efimov States for H_4e Trimers?. Physical Review Letters, 1999, 82, 1648-1651.	2.9	69
140	Diabatic diffusion Monte Carlo calculations of the energy and structure of the Cl_2He_n ($n=1-10$) clusters. Computational and Theoretical Chemistry, 1999, 493, 125-132.	1.5	6
141	A combined experimental-theoretical study of the vibrational predissociation and product rotational distributions for high vibrational levels of He_7Br_2 . Journal of Chemical Physics, 1999, 110, 256-266.	1.2	35
142	Quantum-mechanical study of the resonances of the SN_2 reaction $\text{Cl}+\text{CH}_3\text{Cl}^+\text{ClCH}_3+\text{Cl}$. Physical Chemistry Chemical Physics, 1999, 1, 1197-1203.	1.3	35
143	An adiabatic model for rare gas-halogen van der Waals complexes: application to $\text{HeBr}_2(\text{B})$. Computational and Theoretical Chemistry, 1998, 433, 107-111.	1.5	4
144	Decision support systems generator for industrial companies Module IV: Forecasting support system. Computers and Industrial Engineering, 1998, 35, 315-318.	3.4	3

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145	Theoretical study of VRT energy transfer in Ne+I2(B) collisions using a spectroscopic interaction potential. Journal of the Chemical Society, Faraday Transactions, 1998, 94, 2307-2313.	1.7	6
146	Potential energy surface and spectroscopy of clusters of rare-gas atoms with cyclopropane. Journal of Chemical Physics, 1998, 109, 9288-9299.	1.2	5
147	A hybrid classical/quantum approach to cluster fragmentation dynamics: Application to the vibrational predissociation of He2Cl2. Journal of Chemical Physics, 1998, 108, 1989-1996.	1.2	17
148	Vibronic shifts for LiH in X and A states. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, L427-L434.	0.6	16
149	Strongly mixed resonances in the photofragmentation of HeBr2 near Br2(B) dissociation: Stabilization and close-coupling studies. Journal of Chemical Physics, 1997, 106, 3216-3226.	1.2	21
150	Nonradiative lifetimes for LiH in the A state using adiabatic and diabatic schemes. Journal of Chemical Physics, 1997, 107, 10515-10522.	1.2	52
151	Theoretical spectroscopy and dynamics of fragmentation of the He79Br2 complex. , 1997, , .		1
152	Collisional heating in ionic argon clusters The Ar+Ar2+ case. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 901-907.	1.7	1
153	Mode excitation dynamics in the fragmentation of Ar3+: An helicity decoupling study. Journal of Chemical Physics, 1997, 106, 1718-1728.	1.2	6
154	Title is missing!. Molecular Engineering, 1997, 7, 219-230.	0.2	5
155	A full quantum study of the vibrational predissociation mechanisms in Ar3+ cluster. Chemical Physics, 1997, 218, 71-81.	0.9	6
156	Half- and full-collision VT energy transfer in the He1-,Br2(B) system. Chemical Physics Letters, 1997, 269, 448-454.	1.2	8
157	Sampling the Initial Conditions for Quasiclassical Trajectory Studies of Vibrational Predissociation Dynamics. Topics in Molecular Organization and Engineering, 1997, , 219-230.	0.1	0
158	Computed energy curves for modelling the dissociation of helium trimer ions. Chemical Physics Letters, 1996, 259, 641-646.	1.2	6
159	Quasiclassical dynamics of the I2+Ne2 vibrational predissociation: A comparison with experiment. Journal of Chemical Physics, 1996, 104, 8405-8412.	1.2	46
160	Vibrational predissociation dynamics of the He79Br2 van der Waals molecule: A quantum mechanical study. Journal of Chemical Physics, 1996, 105, 7454-7463.	1.2	46
161	Fragmentation of Ar3+ clusters via vibrational predissociation. Chemical Physics Letters, 1995, 242, 336-342.	1.2	19
162	Vibrational predissociation of I21-,Ne. A quasiclassical dynamical study. Chemical Physics Letters, 1995, 243, 236-242.	1.2	32

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163	Time-dependent Hartree study of lifetimes for the Ne ₂ van der Waals cluster. <i>Chemical Physics Letters</i> , 1995, 246, 197-203.	1.2	21
164	Wave packet study of the Ne ₂ fragmentation dynamics: a four degrees of freedom model. <i>Chemical Physics Letters</i> , 1995, 246, 187-196.	1.2	27
165	Fragmentation dynamics of ionized argon clusters: an effective potential model. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1995, 35, 115-124.	1.0	13
166	Vector Correlations in the Photopredissociation of van der Waals Molecules. <i>The Journal of Physical Chemistry</i> , 1994, 98, 3307-3316.	2.9	12
167	Energy levels and structure of tetraatomic van der Waals clusters. <i>Journal of Chemical Physics</i> , 1994, 101, 2217-2230.	1.2	64
168	Competitive internal transfers in metastable decay of cluster ions. <i>Journal of Chemical Physics</i> , 1994, 100, 6472-6486.	1.2	12
169	Metastable decay of rare gas cluster ions ? the (Ar ₃) ⁺ system. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1994, 30, 77-77.	1.0	2
170	Theoretical Spectroscopy and Dynamics of Tetra-Atomic Van Der Waals Clusters. <i>Jerusalem Symposia on Quantum Chemistry and Biochemistry</i> , 1994, , 57-72.	0.2	1
171	Metastable decay of rare gas cluster ions ? the (Ar ₃) ⁺ system. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1993, 27, 357-364.	1.0	4
172	Selective adsorption resonances at rainbow conditions in the scattering of atoms by stepped surfaces: application to the 4He/Cu(117) system. <i>Surface Science</i> , 1993, 290, L693-L698.	0.8	12
173	Coherence effects between intramolecular vibrational relaxation and dissociation in triatomic van der Waals systems. <i>Journal of Chemical Physics</i> , 1993, 99, 1035-1049.	1.2	36
174	Study of the selective adsorption phenomenon in the 4He/Cu(111̂±) (with ̂± = 0, 3, 5, 7) elastic scattering: the critical kinematic effect. <i>Surface Science</i> , 1992, 274, 21-34.	0.8	30
175	Theoretical Approaches to Study the Vibrational Predissociation of Van Der Waals Molecules. <i>Laser Chemistry</i> , 1992, 12, 103-121.	0.5	5
176	The diabatic approximation in the classical frame. <i>Computational and Theoretical Chemistry</i> , 1992, 254, 117-123.	1.5	1
177	Elastic Scattering of Atoms from Solid Surfaces. The 4He-Cu(111̂±) (̂± = 0,3,5,7) Example. <i>Topics in Molecular Organization and Engineering</i> , 1992, , 19-50.	0.1	0
178	Enhancement of resonance features at critical values of the incidence parameters in gas atom-surface elastic scattering; The 4He-Cu(110) example. <i>Surface Science</i> , 1991, 251-252, 369-372.	0.8	17
179	Time-dependent golden rule treatment of the He-Cu(110) elastic scattering. <i>Surface Science</i> , 1991, 251-252, 373-376.	0.8	4
180	On the coupling of rotovibrational motions in He-Li ₂ inelastic collisions. <i>Journal of Chemical Physics</i> , 1991, 95, 5024-5035.	1.2	11

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181	Variational calculation of the rovibrational spectrum of H ₂ O using the coupled-rotor basis. Journal of Chemical Physics, 1991, 94, 5917-5926.	1.2	11
182	A wave packet Golden Rule treatment of vibrational predissociation. Journal of Chemical Physics, 1991, 94, 4230-4233.	1.2	57
183	Dissociation dynamics of I ₂ ...N ₂ van der Waals clusters (n=1-9): A quasiclassical approach. Journal of Chemical Physics, 1991, 94, 7868-7874.	1.2	51
184	Theoretical Studies on Photofragmentation of Rare Gas-Interhalogen Van Der Waals Complexes. Jerusalem Symposia on Quantum Chemistry and Biochemistry, 1991, , 97-112.	0.2	0
185	A time-dependent approach to the intramolecular vibrational relaxation mechanism. An application to the Ar...Cl ₂ (B) complex. Computational and Theoretical Chemistry, 1990, 210, 227-235.	1.5	1
186	Energetics of small Bc...Xn van der Waals clusters. Application to I ₂ ...N ₂ (n = 1-3). Computational and Theoretical Chemistry, 1990, 210, 237-242.	1.5	4
187	Photofragmentation of the Ne...I ₂ complex: A three-dimensional quantum mechanical study. Journal of Chemical Physics, 1990, 92, 3348-3358.	1.2	93
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