

Olivier Dulieu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2154321/publications.pdf>

Version: 2024-02-01

189
papers

7,954
citations

61984

43
h-index

56724

83
g-index

192
all docs

192
docs citations

192
times ranked

2388
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of Ultracold Polar Molecules in the Rovibrational Ground State. Physical Review Letters, 2008, 101, 133004.	7.8	517
2	Formation of Cold Cs ₂ Molecules through Photoassociation. Physical Review Letters, 1998, 80, 4402-4405.	7.8	499
3	Ultracold Dense Samples of Dipolar RbCs Molecules in the Rovibrational and Hyperfine Ground State. Physical Review Letters, 2014, 113, 205301.	7.8	419
4	Quantum Gas of Deeply Bound Ground State Molecules. Science, 2008, 321, 1062-1066.	12.6	332
5	Calculation of accurate permanent dipole moments of the lowest $\tilde{\Sigma}^+_{1,3}$ states of heteronuclear alkali dimers using extended basis sets. Journal of Chemical Physics, 2005, 122, 204302.	3.0	308
6	Creation of an Ultracold Gas of Ground-State Dipolar Molecules. Physical Review Letters, 2005, 95, 013001.	7.8	298
7	Optical Pumping and Vibrational Cooling of Molecules. Science, 2008, 321, 232-234.	12.6	241
8	Mapped Fourier methods for long-range molecules: Application to perturbations in the Rb ₂ (0u+) photoassociation spectrum. Journal of Chemical Physics, 1999, 110, 9865-9876.	3.0	215
9	Potential curves for the ground and excited states of the Na ₂ molecule up to the (3s+5p) dissociation limit: Results of two different effective potential calculations. Journal of Chemical Physics, 1993, 98, 7113-7125.	3.0	211
10	The formation and interactions of cold and ultracold molecules: new challenges for interdisciplinary physics. Reports on Progress in Physics, 2009, 72, 086401.	20.1	159
11	Light-Assisted Ion-Neutral Reactive Processes in the Cold Regime: Radiative Molecule Formation versus Charge Exchange. Physical Review Letters, 2011, 107, 243202.	7.8	151
12	Direct observation of bimolecular reactions of ultracold KRb molecules. Science, 2019, 366, 1111-1115.	12.6	147
13	Calculations of static dipole polarizabilities of alkali dimers: Prospects for alignment of ultracold molecules. Journal of Chemical Physics, 2008, 129, 064309.	3.0	123
14	Mapped grid methods for long-range molecules and cold collisions. Journal of Chemical Physics, 2004, 120, 548-561.	3.0	120
15	Photoassociative spectroscopy of the $\text{Cs}_2 0_g^-$ long-range state. European Physical Journal D, 1999, 5, 389-403.	1.3	106
16	Resonant Coupling in the Formation of Ultracold Ground State Molecules via Photoassociation. Physical Review Letters, 2001, 86, 2253-2256.	7.8	106
17	Coherent control of cold-molecule formation through photoassociation using a chirped-pulsed-laser field. Physical Review A, 2000, 63, .	2.5	100
18	Ground state of the polar alkali-metal-atom strontium molecules: Potential energy curve and permanent dipole moment. Physical Review A, 2010, 82, .	2.5	84

#	ARTICLE	IF	CITATIONS
19	Ultracold Dipolar Molecules Composed of Strongly Magnetic Atoms. <i>Physical Review Letters</i> , 2015, 115, 203201.	7.8	76
20	Photoassociation in a gas of cold alkali atoms: I. Perturbative quantum approach. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1997, 30, 2801-2820.	1.5	72
21	Collisional loss rate in a magneto-optical trap for sodium atoms: Light-intensity dependence. <i>Physical Review A</i> , 1993, 47, R4563-R4566.	2.5	68
22	Molecular spectroscopy for ground-state transfer of ultracold RbCs molecules. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 18926.	2.8	68
23	Simple determination of Na. <i>European Physical Journal D</i> , 1999, 6, 211.	1.3	67
24	Determination of the 87Rb $5p$ state dipole matrix element and radiative lifetime from the photoassociation spectroscopy of the $\text{Rb}_2\text{Og}^{\sim}(P3/2)$ long-range state. <i>Physical Review A</i> , 2002, 66, .	2.5	65
25	Resolution of the Apparent Disorder of the $\text{Rb}_2\text{A}1\hat{1}\xi u1(0u+)$ and $\text{b}3\hat{1}u(0u+)$ Spectra: A Case of Fully Coupled Electronic States. <i>Physical Review Letters</i> , 1999, 83, 2316-2319.	7.8	60
26	Determination of the $\text{Cs}_2\text{Og}^{\sim}(P3/2)$ potential curve and of $\text{Cs}_6P1/2,3/2$ atomic radiative lifetimes from photoassociation spectroscopy. <i>Physical Review A</i> , 2002, 66, .	2.5	60
27	Experimental versus theoretical rates for photoassociation and for formation of ultracold molecules. <i>IEEE Journal of Quantum Electronics</i> , 2000, 36, 1378-1388.	1.9	58
28	Ion-neutral chemistry at ultralow energies: dynamics of reactive collisions between laser-cooled $\text{Ca}^{\text{sup}}+\text{Ca}^{\text{sup}}$ ions and Rb atoms in an ion-atom hybrid trap. <i>Molecular Physics</i> , 2013, 111, 2020-2032.	1.7	58
29	Light-assisted cold chemical reactions of barium ions with rubidium atoms. <i>Molecular Physics</i> , 2013, 111, 1683-1690.	1.7	56
30	Formation of cold Cs ground state molecules through photoassociation in the pure long-range state. <i>European Physical Journal D</i> , 2000, 11, 59-71.	1.3	54
31	Calculations of transition and permanent dipole moments of heteronuclear alkali dimers NaK, NaRb and NaCs. <i>Molecular Physics</i> , 2007, 105, 1733-1742.	1.7	54
32	Cold rubidium molecule formation through photoassociation: A spectroscopic study of the $0g$ -long-range state of 87Rb_2 . <i>European Physical Journal D</i> , 2001, 15, 189-198.	1.3	51
33	Physics and Chemistry of Cold Molecules. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 18703.	2.8	51
34	Proposal for a Laser Control of Vibrational Cooling in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Na} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ Using Resonance Coalescence. <i>Physical Review Letters</i> , 2011, 106, 173002.	7.8	50
35	Photoassociative Spectroscopy and Formation of Cold Molecules in Cold Cesium Vapor: Trap Loss Spectrum versus Ion Spectrum. <i>Journal of Molecular Spectroscopy</i> , 1999, 195, 229-235.	1.2	48
36	Nuclear spin conservation enables state-to-state control of ultracold molecular reactions. <i>Nature Chemistry</i> , 2021, 13, 435-440.	13.6	48

#	ARTICLE	IF	CITATIONS
37	Theoretical treatment of channel mixing in excited Rb ₂ and Cs ₂ ultracold molecules: Perturbations in O _u +photoassociation and fluorescence spectra. Physical Review A, 2000, 62, .	2.5	47
38	The Cs ₂ ground electronic state by Fourier transform spectroscopy: Dispersion coefficients. Journal of Chemical Physics, 2002, 117, 5155-5164.	3.0	47
39	Formation of cold alkali dimers on helium nanodroplets. European Physical Journal D, 2004, 31, 291-299.	1.3	47
40	Detection by two-photon ionization and magnetic trapping of cold Rb ₂ triplet state molecules. European Physical Journal D, 2006, 39, 261-269.	1.3	47
41	Cold molecules: a chemistry kitchen for physicists?. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, .	1.5	47
42	Prospects for the formation of ultracold ground state polar molecules from mixed alkali atom pairs. European Physical Journal D, 2004, 31, 195-203.	1.3	44
43	Spectroscopic observations, spin-orbit functions, and coupled-channel deperturbation analysis of data on the $A^1\Sigma^+$ state of LiCs. Physical Review A, 2009, 80, .	2.5	44
44	Formation of molecular ions by radiative association of cold trapped atoms and ions. New Journal of Physics, 2015, 17, 045015.	2.9	44
45	Coupled channel bound states calculations for alkali dimers using the Fourier grid method. Journal of Chemical Physics, 1995, 103, 60-66.	3.0	43
46	Multichannel tunneling in the Cs ₂ photoassociation spectrum. Physical Review A, 2000, 61, .	2.5	43
47	Permanent dipole moment of LiCs in the ground state. Physical Review A, 2010, 82, .	2.5	41
48	Potential energy and dipole moment surfaces of H ₃ ⁺ molecule. Journal of Chemical Physics, 2010, 132, 194309.	3.0	41
49	Formation of ultracold metastable RbCs molecules by short-range photoassociation. Physical Chemistry Chemical Physics, 2011, 13, 18905.	2.8	41
50	Structure of the alkali-metal-atom + strontium molecular ions: Towards photoassociation and formation of cold molecular ions. Journal of Chemical Physics, 2011, 135, 064305.	3.0	41
51	Global analysis of data on the spin-orbit-coupled $A^1\Sigma^+$ state of LiCs. Physical Review A, 2009, 80, .	2.5	41
52	Coherent multidimensional spectroscopy of dilute gas-phase nanosystems. Nature Communications, 2018, 9, 4823.	12.8	41
53	Theoretical treatment of channel mixing in excited Rb ₂ and Cs ₂ ultracold molecules: Determination of predissociation lifetimes with coordinate mapping. Physical Review A, 2000, 62, .	2.5	39
54	Inversion analysis of K ₂ coupled electronic states with the Fourier grid method. European Physical Journal D, 2001, 17, 319-328.	1.3	39

#	ARTICLE	IF	CITATIONS
55	Reexamination of the $0g\tilde{\alpha}^1$ pure long-range state of Cs ₂ : Prediction of missing levels in the photoassociation spectrum. <i>Physical Review A</i> , 2007, 75, .	2.5	39
56	Dark resonances for ground-state transfer of molecular quantum gases. <i>Applied Physics B: Lasers and Optics</i> , 2009, 95, 219-225.	2.2	39
57	Electronic properties of francium diatomic compounds and prospects for cold molecule formation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, S905-S927.	1.5	38
58	Influence of a Feshbach resonance on the photoassociation of LiCs. <i>New Journal of Physics</i> , 2009, 11, 055034.	2.9	38
59	Absorption spectroscopy of the rubidium dimer in an overheated vapor: An accurate check of molecular structure and dynamics. <i>Physical Review A</i> , 2007, 75, .	2.5	37
60	Characterization of charge-exchange collisions between ultracold $\text{Li} + \text{Ca}^+$ atoms and Ca^+ ions. <i>Physical Review A</i> , 2014, 89, .	2.5	37
61	Formation of H_3^+ by radiative association of H_2 and H^+ in the interstellar medium. <i>Physical Review A</i> , 2011, 83, .	2.5	36
62	Anisotropic optical trapping of ultracold erbium atoms. <i>Physical Review A</i> , 2014, 89, .	2.5	35
63	Electronic structure of the magnesium hydride molecular ion. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 154025.	1.5	34
64	The electronic structure of the alkaline-earth-atom (Ca, Sr, Ba) hydride molecular ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 215103.	1.5	34
65	Dynamic dipole polarizabilities of heteronuclear alkali dimers: optical response, trapping and control of ultracold molecules. <i>International Reviews in Physical Chemistry</i> , 2017, 36, 709-750.	2.3	33
66	Precision measurements with polar molecules: the role of the black body radiation. <i>Molecular Physics</i> , 2007, 105, 1723-1731.	1.7	32
67	Formation of ultracold Rb ₂ molecules in the $v=0$ level of the $a^3\Sigma^+u$ state via blue-detuned photoassociation to the $13g$ state. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 18880.	2.8	32
68	Processes in the formation of ultracold NaCs. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, S957-S963.	1.5	31
69	Spectroscopy of triplet states of Rb_2 via femtosecond pump-probe photoionization of doped helium nanodroplets. <i>Physical Review A</i> , 2009, 80, .	2.5	31
70	Long-range interactions in the ozone molecule: Spectroscopic and dynamical points of view. <i>Journal of Chemical Physics</i> , 2012, 137, 234305.	3.0	31
71	Long-range interactions between polar alkali-metal diatoms in external electric fields. <i>Physical Review A</i> , 2013, 88, .	2.5	31
72	Life and death of a cold BaRb^+ molecule inside an ultracold cloud of Rb atoms. <i>Physical Review Research</i> , 2021, 3, .	2.5	31

#	ARTICLE	IF	CITATIONS
73	Optimal control of photoassociation of cold atoms and photodissociation of long-range molecules: Characteristic times for wave-packet propagation. <i>Physical Review A</i> , 2001, 63, .	2.5	29
74	Photoassociative creation of ultracold heteronuclear $^6\text{Li}^{40}\text{K}^*$ molecules. <i>Europhysics Letters</i> , 2011, 96, 33001.	2.0	29
75	Theory of Long-Range Ultracold Atom-Molecule Photoassociation. <i>Physical Review Letters</i> , 2015, 115, 073201.	7.8	29
76	Anisotropic polarizability of erbium atoms. <i>Physical Review A</i> , 2018, 97, .	2.5	29
77	Statistical product distributions for ultracold reactions in external fields. <i>Physical Review A</i> , 2014, 90, .	2.5	28
78	Efficient optical schemes to create ultracold KRb molecules in their rovibronic ground state. <i>Physical Review A</i> , 2014, 90, .	2.5	28
79	Ground- and excited-state properties of the polar and paramagnetic RbSr molecule: A comparative study. <i>Physical Review A</i> , 2014, 90, .	2.5	28
80	Photodissociation of Trapped Rb_2^+ : Implications for Simultaneous Trapping of Atoms and Molecular Ions. <i>Physical Review Letters</i> , 2016, 117, 213002.	7.8	28
81	Optical trapping of ultracold dysprosium atoms: transition probabilities, dynamic dipole polarizabilities and van der Waals C_6 coefficients. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 014005.	1.5	28
82	Quasibound states in long-range alkali dimers: Grid method calculations. <i>Journal of Chemical Physics</i> , 1997, 107, 10633-10642.	3.0	27
83	Predictions for the observation of KRb spectra under cold conditions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, S1191-S1201.	1.5	26
84	Rovibrational controlled-NOT gates using optimized stimulated Raman adiabatic passage techniques and optimal control theory. <i>Physical Review A</i> , 2009, 80, .	2.5	26
85	Efficient formation of deeply bound ultracold molecules probed by broadband detection. <i>Physical Review A</i> , 2009, 79, .	2.5	26
86	Reinvestigation of the $\text{Rb}_2(2)^3\text{g}^{\sim}\text{a}^{\sim}\text{e}^{\sim}\text{f}^{\sim}\text{3u}^+$ band on helium nanodroplets. <i>Journal of Chemical Physics</i> , 2010, 132, 054304.	3.0	26
87	Rotationally inelastic collisions of H_2^+ ions with He buffer gas: Computing cross sections and rates. <i>Journal of Chemical Physics</i> , 2017, 146, 124310.	3.0	26
88	Photoassociation inside an optical dipole trap: absolute rate coefficients and Franck-Condon factors. <i>Applied Physics B: Lasers and Optics</i> , 2004, 79, 993-999.	2.2	25
89	Saturation of Cs_2 photoassociation in an optical dipole trap. <i>Physical Review A</i> , 2005, 71, .	2.5	25
90	Optical Shielding of Destructive Chemical Reactions between Ultracold Ground-State NaRb Molecules. <i>Physical Review Letters</i> , 2020, 125, 153202.	7.8	25

#	ARTICLE	IF	CITATIONS
91	Systematic trends in electronic properties of alkali hydrides This article is part of a Special Issue on Spectroscopy at the University of New Brunswick in honour of Colan Linton and Ron Lees.. Canadian Journal of Physics, 2009, 87, 543-556.	1.1	24
92	Anisotropic optical trapping as a manifestation of the complex electronic structure of ultracold lanthanide atoms: The example of holmium. Physical Review A, 2017, 95, .	2.5	22
93	Comment on "Calculation of accurate permanent dipole moments of the lowest $\Sigma+1,3$ states of heteronuclear alkali dimers using extended basis sets" [J. Chem. Phys. 122, 204302 (2005)]. Journal of Chemical Physics, 2006, 125, 047101.	3.0	21
94	Inelastic collisions of ultracold polar LiCs molecules with caesium atoms in an optical dipole trap. Physical Chemistry Chemical Physics, 2011, 13, 19101.	2.8	21
95	Photoassociative molecular spectroscopy for atomic radiative lifetimes. Physica Scripta, 2009, T134, 014014.	2.5	20
96	Formation of ultracold RbCs molecules by photoassociation. Laser Physics, 2012, 22, 1502-1512.	1.2	20
97	Generalized simulated annealing method in the analysis of atom-atom interaction. Chemical Physics Letters, 1999, 300, 131-139.	2.6	19
98	Study of coupled states for the $(4s^2)1S + (4s4p)3P$ asymptote of Ca2. European Physical Journal D, 2005, 35, 483-497.	1.3	19
99	Long-range interactions between polar alkali ground-state molecules in arbitrary vibrational levels. Journal of Chemical Physics, 2015, 142, 214303.	3.0	19
100	Prospects for the formation of ultracold polar ground state KCs molecules via an optical process. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 055301.	1.5	19
101	Model-potential calculations for ground and excited \tilde{A} states of Rb2+, Cs2+ and RbCs+ ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 4799-4812.	1.5	18
102	Formation of ultracold dipolar molecules in the lowest vibrational levels by photoassociation. Faraday Discussions, 2009, 142, 335.	3.2	18
103	High-resolution molecular spectroscopy for producing ultracold absolute-ground-state $\text{Na} < \text{Rb} >_2$ molecules. Physical Review A, 2017, 96, .	2.5	18
104	Perturbation effects in photoassociation spectra of ultracold Cs2. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, S981-S992.	1.5	17
105	Deeply bound cold caesium molecules formed after $O^{\sim}g$ resonant coupling. Physical Chemistry Chemical Physics, 2011, 13, 18910.	2.8	17
106	Stark effect measurements on the NaK molecule. European Physical Journal D, 2011, 65, 105-111.	1.3	17
107	Model for the hyperfine structure of electronically excited KCs molecules. Physical Review A, 2015, 92, .	2.5	17
108	Formation of ultracold molecules by photoassociation: theoretical developments. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 1083.	2.1	16

#	ARTICLE	IF	CITATIONS
109	Formation of ultracold molecules via photoassociation with blue detuned laser light. <i>European Physical Journal D</i> , 2001, 15, 355-363.	1.3	15
110	Experimental evidence for an isotopic effect in the formation of ultracold ground-state rubidium dimers. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007, 40, 3283-3293.	1.5	15
111	Precision molecular spectroscopy for ground state transfer of molecular quantum gases. <i>Faraday Discussions</i> , 2009, 142, 283.	3.2	15
112	Photoassociation of a cold-atom-molecule pair: Long-range quadrupole-quadrupole interactions. <i>Physical Review A</i> , 2010, 82, .	2.5	15
113	Population redistribution in optically trapped polar molecules. <i>European Physical Journal D</i> , 2011, 65, 99-104.	1.3	15
114	Optimal trapping wavelengths of Cs ₂ molecules in an optical lattice. <i>European Physical Journal D</i> , 2011, 65, 243-250.	1.3	15
115	Trap loss in a rubidium crossed dipole trap by short-range photoassociation. <i>Physical Review A</i> , 2013, 87, .	2.5	15
116	Structures in the long-range potential curves of Na ₂ . II. Application to the semiclassical study of the energy pooling process between two excited sodium atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1994, 27, 3659-3675.	1.5	14
117	Observation of the long-range potential well of the $\text{6}^1\Sigma^+_g(3s+5s)$ state of Na 2 . <i>European Physical Journal D</i> , 2003, 26, 173-185.	1.3	14
118	Photoassociation of a cold-atom-molecule pair. II. Second-order perturbation approach. <i>Physical Review A</i> , 2011, 83, .	2.5	14
119	Polarizability of ultracold molecules in the rovibrational ground state of. <i>New Journal of Physics</i> , 2015, 17, 065019.	2.9	14
120	Accuracy of molecular data in the understanding of ultracold collisions. <i>Physical Review A</i> , 1994, 49, 607-610.	2.5	13
121	Photoionization and detection of ultracold Cs ₂ molecules through diffuse bands. <i>European Physical Journal D</i> , 2002, 18, 365-370.	1.3	13
122	Analysis of light-induced frequency shifts in the photoassociation of ultracold metastable helium atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, S881-S904.	1.5	13
123	Dissociative recombination and vibrational excitation of BF ⁺ in low energy electron collisions. <i>Plasma Sources Science and Technology</i> , 2016, 25, 055022.	3.1	13
124	Study of Doubly Excited States of Alkali Negative Ions with the Pluvillage Method. <i>Europhysics Letters</i> , 1987, 3, 975-981.	2.0	12
125	Long-range interactions between ultracold atoms and molecules including atomic spin-orbit. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 19106.	2.8	12
126	Efficient formation of strongly bound ultracold caesium molecules by photoassociation with tunnelling. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, S945-S956.	1.5	11

#	ARTICLE	IF	CITATIONS
127	Photoionization spectroscopy of excited states of cold caesium dimers. <i>Molecular Physics</i> , 2010, 108, 2355-2368.	1.7	11
128	Proposal for the formation of ultracold deeply bound RbSr dipolar molecules by all-optical methods. <i>Physical Review A</i> , 2018, 98, .	2.5	11
129	Anisotropic light shift and magic polarization of the intercombination line of dysprosium atoms in a far-detuned dipole trap. <i>Physical Review A</i> , 2018, 98, .	2.5	11
130	Laser control of ultracold molecule formation: The case of RbSr. <i>Physical Review A</i> , 2021, 103, .	2.5	11
131	Proposal for laser cooling of rare-earth ions. <i>Physical Review A</i> , 2016, 93, .	2.5	10
132	Title is missing!. <i>European Physical Journal D</i> , 2002, 18, 365-370.	1.3	10
133	How to get access to long range states of highly excited molecules. <i>European Physical Journal D</i> , 1999, 5, 237-242.	1.3	9
134	Dipolar effects and collisions in an ultracold gas of LiCs molecules. <i>Journal of Physics: Conference Series</i> , 2011, 264, 012014.	0.4	9
135	Laser cooling of the vibrational motion of Na ₂ combining the effects of zero-width resonances and exceptional points. <i>Physical Review A</i> , 2011, 84, .	2.5	9
136	Triplet-singlet conversion in ultracold Cs_2 and production of ground-state molecules. <i>Physical Review A</i> , 2011, 83, .	2.5	8
137	Satellite bands of the RbCs molecule in the range of highly excited states. <i>Journal of Chemical Physics</i> , 2016, 144, 204310.	3.0	8
138	Desorption Dynamics of Rb ₂ Molecules Off the Surface of Helium Nanodroplets. <i>Journal of Physical Chemistry A</i> , 2016, 120, 7641-7649.	2.5	8
139	Ultracold Rare-Earth Magnetic Atoms with an Electric Dipole Moment. <i>Physical Review Letters</i> , 2018, 121, 063201.	7.8	8
140	Description of interelectronic correlation with the Pluinage method. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1989, 13, 9-16.	1.0	7
141	Description of interelectronic correlation with the Pluinage method. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1989, 13, 17-24.	1.0	7
142	Formation of Cs H_2 molecules via Feshbach resonances stabilized by spontaneous emission: theoretical treatment with the Fourier grid method. <i>European Physical Journal D</i> , 2002, 20, 77-86.	1.3	7
143	Cold atom-molecule photoassociation: long-range interactions beyond the $1/R_n$ expansion. <i>European Physical Journal D</i> , 2011, 65, 113-123.	1.3	7
144	Resonant States of the H ₃ ⁺ Molecule and Its Isotopologues D ₂ H ⁺ and H ₂ D ⁺ . <i>Journal of Physical Chemistry A</i> , 2013, 117, 9941-9949.	2.5	7

#	ARTICLE	IF	CITATIONS
145	Experimental and theoretical study of the $B(2)2^1\Sigma^+ \leftarrow X(1)2^1\Sigma^+$ system in the K Sr molecule. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 210, 217-224.	2.3	7
146	Hyperfine structure of electronically-excited states of the $^{39}K^{133}Cs$ molecule. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 135101.	1.5	7
147	Laser-assisted self-induced Feshbach resonance for controlling heteronuclear quantum gas mixtures. Physical Review A, 2019, 100, .	2.5	7
148	Core repulsion effects in alkali trimers. International Journal of Quantum Chemistry, 2009, 109, 3387-3398.	2.0	6
149	Dynamics of ultracold dipolar particles in a confined geometry and tilted fields. Physical Review A, 2015, 92, .	2.5	6
150	Long-range states of the NaRb molecule near the $Na(3^2S_{1/2})+Rb(5^2P_{3/2})$ asymptote. Physical Review A, 2016, 93, .	2.5	6
151	Shape and strength of dynamical couplings between vibrational levels of the H_2^+ , HD^+ and D_2^+ molecular ions in collision with He as a buffer gas. European Physical Journal D, 2017, 71, 1.	1.3	6
152	Detection of ultracold molecules using an optical cavity. Physical Review A, 2018, 97, .	2.5	6
153	Direct observation of ultracold atom-ion excitation exchange. Physical Review A, 2020, 102, .	2.5	6
154	Optical manipulation of long-range interactions at the $3s + 3p$ asymptote of Na_2 . European Physical Journal D, 2003, 26, 307-318.	1.3	5
155	Playing With a Pair of Ultracold Atoms and Lasers: Towards a Novel Ultracold Photochemistry?. Israel Journal of Chemistry, 2004, 44, 253-262.	2.3	5
156	Optimization of generalized multichannel quantum defect reference functions for Feshbach resonance characterization. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 185202.	1.5	5
157	Broadband lasers to detect and cool the vibration of cold molecules. Faraday Discussions, 2009, 142, 257.	3.2	5
158	Progress toward ultracold chemistry: ultracold atomic and photonic collisions. Journal of Physics: Conference Series, 2014, 488, 012031.	0.4	5
159	Formation of ultracold molecules induced by a high-power single-frequency fiber laser. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 045202.	1.5	5
160	Continuous Loading of Ultracold Ground-State Rb^{285} Molecules in a Dipole Trap Using a Single Light Beam. Physical Review Letters, 2019, 122, 123401.	7.8	5
161	Electronic Structure of Alkali Polar Ions. AIP Conference Proceedings, 2007, , .	0.4	4
162	Four-body long-range interactions between ultracold weakly-bound diatomic molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 014004.	1.5	4

#	ARTICLE	IF	CITATIONS
163	Interaction potentials and ultracold scattering cross sections for the $\text{Li}^+ + \text{Li}^-$ ion-atom system. Physical Review A, 2020, 101, .	2.5	4
164	Ultra-cold Molecules: Formation, Trapping and Prospects. Physica Scripta, 2003, T105, 7.	2.5	3
165	Purely long-range polar molecules composed of identical lanthanide atoms. Physical Review A, 2019, 100, .	2.5	3
166	Potential energy and dipole moment surfaces of HCO^+ for the search of H^+ in the interstellar medium. Journal of Chemical Physics, 2012, 136, 224310.	3.0	2
167	Characterization of the lowest electronically excited-state ro-vibrational level of $^{23}\text{Na}^{87}\text{Rb}$. New Journal of Physics, 2021, 23, 115003.	2.9	2
168	CHAPTER 4. Long-range Interactions Between Ultracold Atoms and Molecules. RSC Theoretical and Computational Chemistry Series, 2017, , 150-202.	0.7	2
169	Engineering long-range interactions between ultracold atoms with light. Journal of Physics B: Atomic, Molecular and Optical Physics, 2022, 55, 034001.	1.5	2
170	Spectroscopy and Lifetimes of the ^{12}Iu State of Na^+2 : A New Comparison between Theory and Experiment. Journal of Molecular Spectroscopy, 1998, 191, 81-87.	1.2	1
171	Accurate Calculations of Electronic Properties of Alkali Dimers for Ultracold Molecule Formation. AIP Conference Proceedings, 2007, , .	0.4	1
172	Translationally cold Cs_2 molecules formation in a magneto-optical trap. , 1998, , .		0
173	Measurement of fine-structure changing collision in ultracold ^{85}Rb held in a MOT. , 0, , .		0
174	Photoassociation, cold molecules and prospects. Comptes Rendus Physique, 2001, 2, 681-686.	0.1	0
175	Photoassociative Spectroscopy Of Cs_2 . , 2002, , 313-321.		0
176	Ultracold Molecules: Formation, Detection. AIP Conference Proceedings, 2002, , .	0.4	0
177	ULTRACOLD POLAR MOLECULES IN THE ROVIBRATIONAL GROUND STATE. , 2010, , .		0
178	Internal cooling of cold Rb_2^+ ions with cold Rb atoms. Journal of Physics: Conference Series, 2017, 875, 082012.	0.4	0
179	Optical Shielding of Ultracold ^{39}K -Cs Collision. , 2019, , .		0
180	Product-state distribution after isotopic substitution in ultracold atom-molecule collisions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 07LT01.	1.5	0

#	ARTICLE	IF	CITATIONS
181	Optical shielding for ultracold 39K-Cs binary collisions. Journal of Physics: Conference Series, 2020, 1412, 122009.	0.4	0
182	Modeling ultracold lithium ion-atom collision. Journal of Physics: Conference Series, 2020, 1412, 122010.	0.4	0
183	Formation of H_3^+ molecular ions by Three-Body Recombination. Journal of Physics: Conference Series, 2020, 1412, 122026.	0.4	0
184	Optical shielding of destructive chemical reactions between ultracold ground-state NaRb molecules. , 2021, , .		0
185	Photoassociative Spectroscopy and Formation of Cold Molecules. Physica Scripta, 2000, T86, 38.	2.5	0
186	Ultracold Molecules: Formation, Detection. , 2003, , 333-342.		0
187	Optical fields to control ultracold atomic/molecular collisions. Journal of Physics: Conference Series, 2017, 875, 082003.	0.4	0
188	Laser-Assisted Self Induced Feshbach Resonance : a new tool for controlling ultracold atomic collisions. Journal of Physics: Conference Series, 2020, 1412, 122008.	0.4	0
189	Homonuclear ion-atom collisions: Application to $\text{Li}^+ + \text{Li}$. Physical Review A, 2022, 105, .	2.5	0