

Olivier Dulieu

List of Publications by Year in descending order

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189
papers

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61984

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192
all docs

192
docs citations

192
times ranked

2388
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering long-range interactions between ultracold atoms with light. Journal of Physics B: Atomic, Molecular and Optical Physics, 2022, 55, 034001.	1.5	2
2	Homonuclear ion-atom collisions: Application to Li^+ . Physical Review A, 2022, 105, .	2.5	0
3	Life and death of a cold Li^+ molecule inside an ultracold cloud of Rb atoms. Physical Review Research, 2021, 3, .	2.5	11
4	Laser control of ultracold molecule formation: The case of RbSr. Physical Review A, 2021, 103, .	2.5	11
5	Optical shielding of destructive chemical reactions between ultracold ground-state NaRb molecules. , 2021, , .		0
6	Nuclear spin conservation enables state-to-state control of ultracold molecular reactions. Nature Chemistry, 2021, 13, 435-440.	13.6	48
7	Characterization of the lowest electronically excited-state ro-vibrational level of $^{23}Na^{87}Rb$. New Journal of Physics, 2021, 23, 115003.	2.9	2
8	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
9	Optical Shielding of Destructive Chemical Reactions between Ultracold Ground-State NaRb Molecules. Physical Review Letters, 2020, 125, 153202.	7.8	25
10	Optical shielding for ultracold ^{39}K -Cs binary collisions. Journal of Physics: Conference Series, 2020, 1412, 122009.	0.4	0
11	Modeling ultracold lithium ion-atom collision. Journal of Physics: Conference Series, 2020, 1412, 122010.	0.4	0
12	Direct observation of ultracold atom-ion excitation exchange. Physical Review A, 2020, 102, .	2.5	6
13	Formation of H_3^+ molecular ions by Three-Body Recombination. Journal of Physics: Conference Series, 2020, 1412, 122026.	0.4	0
14	Interaction potentials and ultracold scattering cross sections for the Li^+ ion-atom system. Physical Review A, 2020, 101, .	2.5	4
15	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
16	Purely long-range polar molecules composed of identical lanthanide atoms. Physical Review A, 2019, 100, .	2.5	3
17	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
18	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

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19	Optical Shielding of Ultracold 39K-Cs Collision. , 2019, , .		0
20	Laser-assisted self-induced Feshbach resonance for controlling heteronuclear quantum gas mixtures. Physical Review A, 2019, 100, .	2.5	7
21	Direct observation of bimolecular reactions of ultracold KRb molecules. Science, 2019, 366, 1111-1115.	12.6	147
22	Experimental and theoretical study of the $B(2)2^1\Sigma^+ \hat{\alpha}^1 X(1)2^1\Sigma^+$ system in the KSr molecule. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 210, 217-224.	2.3	7
23	Anisotropic polarizability of erbium atoms. Physical Review A, 2018, 97, .	2.5	29
24	Proposal for the formation of ultracold deeply bound RbSr dipolar molecules by all-optical methods. Physical Review A, 2018, 98, .	2.5	11
25	Coherent multidimensional spectroscopy of dilute gas-phase nanosystems. Nature Communications, 2018, 9, 4823.	12.8	41
26	Anisotropic light shift and magic polarization of the intercombination line of dysprosium atoms in a far-detuned dipole trap. Physical Review A, 2018, 98, .	2.5	11
27	Ultracold Rare-Earth Magnetic Atoms with an Electric Dipole Moment. Physical Review Letters, 2018, 121, 063201.	7.8	8
28	Detection of ultracold molecules using an optical cavity. Physical Review A, 2018, 97, .	2.5	6
29	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
30	Characterization of charge-exchange collisions between ultracold Li^+ atoms and Ca^{25}		37
31	Rotationally inelastic collisions of H_2^+ ions with He buffer gas: Computing cross sections and rates. Journal of Chemical Physics, 2017, 146, 124310.	3.0	26
32	Optical trapping of ultracold dysprosium atoms: transition probabilities, dynamic dipole polarizabilities and van der Waals C_6 coefficients. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 014005.	1.5	28
33	Dynamic dipole polarizabilities of heteronuclear alkali dimers: optical response, trapping and control of ultracold molecules. International Reviews in Physical Chemistry, 2017, 36, 709-750.	2.3	33
34	High-resolution molecular spectroscopy for producing ultracold absolute-ground-state Na^+ molecules. Physical Review A, 2017, 96, .	2.5	18
35	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
36	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

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37	Internal cooling of cold Rb^2 ions with cold Rb atoms. Journal of Physics: Conference Series, 2017, 875, 082012.	0.4	0
38	CHAPTER 4. Long-range Interactions Between Ultracold Atoms and Molecules. RSC Theoretical and Computational Chemistry Series, 2017, , 150-202.	0.7	2
39	Optical fields to control ultracold atomic/molecular collisions. Journal of Physics: Conference Series, 2017, 875, 082003.	0.4	0
40	Satellite bands of the RbCs molecule in the range of highly excited states. Journal of Chemical Physics, 2016, 144, 204310.	3.0	8
41	Photodissociation of Trapped Rb^2 : Implications for Simultaneous Trapping of Atoms and Molecular Ions. Physical Review Letters, 2016, 117, 213002.	7.8	28
42	Dissociative recombination and vibrational excitation of BF^+ in low energy electron collisions. Plasma Sources Science and Technology, 2016, 25, 055022.	3.1	13
43	Desorption Dynamics of Rb^2 Molecules Off the Surface of Helium Nanodroplets. Journal of Physical Chemistry A, 2016, 120, 7641-7649.	2.5	8
44	Proposal for laser cooling of rare-earth ions. Physical Review A, 2016, 93, .	2.5	10
45	Long-range states of the NaRb molecule near the $\text{Na}(3\hat{A}2S1/2)+\text{Rb}(5\hat{A}2P3/2)$ asymptote. Physical Review A, 2016, 93, .	2.5	6
46	Creation of an Ultracold Gas of Ground-State Dipolar Na^{23}	7.8	298
47	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
48	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
49	Model for the hyperfine structure of electronically excited KCs molecules.	2.5	17
50	Dynamics of ultracold dipolar particles in a confined geometry and tilted fields. Physical Review A, 2015, 92, .	2.5	6
51	Theory of Long-Range Ultracold Atom-Molecule Photoassociation. Physical Review Letters, 2015, 115, 073201.	7.8	29
52	Ultracold Dipolar Molecules Composed of Strongly Magnetic Atoms. Physical Review Letters, 2015, 115, 203201.	7.8	76
53	Formation of molecular ions by radiative association of cold trapped atoms and ions. New Journal of Physics, 2015, 17, 045015.	2.9	44
54	Polarizability of ultracold molecules in the rovibrational ground state of. New Journal of Physics, 2015, 17, 065019.	2.9	14

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55	Long-range interactions between polar alkali ground-state molecules in arbitrary vibrational levels. <i>Journal of Chemical Physics</i> , 2015, 142, 214303.	3.0	19
56	Anisotropic optical trapping of ultracold erbium atoms. <i>Physical Review A</i> , 2014, 89, .	2.5	35
57	Progress toward ultracold chemistry: ultracold atomic and photonic collisions. <i>Journal of Physics: Conference Series</i> , 2014, 488, 012031.	0.4	5
58	Ultracold Dense Samples of Dipolar RbCs Molecules in the Rovibrational and Hyperfine Ground State. <i>Physical Review Letters</i> , 2014, 113, 205301.	7.8	419
59	Statistical product distributions for ultracold reactions in external fields. <i>Physical Review A</i> , 2014, 90, .	2.5	28
60	Efficient optical schemes to create ultracold KRb molecules in their rovibronic ground state. <i>Physical Review A</i> , 2014, 90, .	2.5	28
61	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
62	Light-assisted cold chemical reactions of barium ions with rubidium atoms. <i>Molecular Physics</i> , 2013, 111, 1683-1690.	1.7	56
63	Ion-neutral chemistry at ultralow energies: dynamics of reactive collisions between laser-cooled Ca ⁺ ions and Rb atoms in an ion-atom hybrid trap. <i>Molecular Physics</i> , 2013, 111, 2020-2032.	1.7	58
64	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
65	Trap loss in a rubidium crossed dipole trap by short-range photoassociation. <i>Physical Review A</i> , 2013, 87, .	2.5	15
66	Long-range interactions between polar alkali-metal diatoms in external electric fields. <i>Physical Review A</i> , 2013, 88, .	2.5	31
67	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
68	Formation of ultracold RbCs molecules by photoassociation. <i>Laser Physics</i> , 2012, 22, 1502-1512.	1.2	20
69	Potential energy and dipole moment surfaces of HCO ⁺ for the search of H ⁺ in the interstellar medium. <i>Journal of Chemical Physics</i> , 2012, 136, 224310.	3.0	2
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	Formation of ultracold metastable RbCs molecules by short-range photoassociation. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 18905.	2.8	41
72	Inelastic collisions of ultracold polar LiCs molecules with caesium atoms in an optical dipole trap. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 19101.	2.8	21

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73	Triplet-singlet conversion in ultracold Cs_2 and production of ground-state molecules. Physical Review A, 2011, 83, .	2.5	8
74	Photoassociative creation of ultracold heteronuclear Li_6 molecules. Europhysics Letters, 2011, 96, 33001.	2.0	29
75	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
76	Molecular spectroscopy for ground-state transfer of ultracold RbCs molecules. Physical Chemistry Chemical Physics, 2011, 13, 18926.	2.8	68
77	Physics and Chemistry of Cold Molecules. Physical Chemistry Chemical Physics, 2011, 13, 18703.	2.8	51
78	Formation of ultracold Rb ₂ molecules in the $v=0$ level of the $a^3\Sigma^+u$ state via blue-detuned photoassociation to the 13^1g state. Physical Chemistry Chemical Physics, 2011, 13, 18880.	2.8	32
79	Deeply bound cold caesium molecules formed after 0^+g resonant coupling. Physical Chemistry Chemical Physics, 2011, 13, 18910.	2.8	17
80	Dipolar effects and collisions in an ultracold gas of LiCs molecules. Journal of Physics: Conference Series, 2011, 264, 012014.	0.4	9
81	Long-range interactions between ultracold atoms and molecules including atomic spin-orbit. Physical Chemistry Chemical Physics, 2011, 13, 19106.	2.8	12
82	Stark effect measurements on the NaK molecule. European Physical Journal D, 2011, 65, 105-111.	1.3	17
83	Population redistribution in optically trapped polar molecules. European Physical Journal D, 2011, 65, 99-104.	1.3	15
84	Cold atom-molecule photoassociation: long-range interactions beyond the $1/R_n$ expansion. European Physical Journal D, 2011, 65, 113-123.	1.3	7
85	Optimal trapping wavelengths of Cs ₂ molecules in an optical lattice. European Physical Journal D, 2011, 65, 243-250.	1.3	15
86	Global analysis of data on the spin-orbit-coupled $A^1\Sigma^+$ state of Na ₂ . Physical Chemistry Chemical Physics, 2011, 13, 19106.	2.5	41
87	Laser cooling of the vibrational motion of Na ₂ combining the effects of zero-width resonances and exceptional points. Physical Review A, 2011, 84, .	2.5	9
88	Formation of H ₃ ⁺ by radiative association of H ₂ and H in the interstellar medium. Physical Review A, 2011, 83, .	2.5	36
89	Photoassociation of a cold-atom-molecule pair. II. Second-order perturbation approach. Physical Review A, 2011, 83, .	2.5	14
90	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

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91	Proposal for a Laser Control of Vibrational Cooling in Na^2 Using Resonance Coalescence. Physical Review Letters, 2011, 106, 173002.	7.8	50
92	ULTRACOLD POLAR MOLECULES IN THE ROVIBRATIONAL GROUND STATE. , 2010, , .		0
93	Photoassociation of a cold-atom molecule pair: Long-range quadrupole-quadrupole interactions. Physical Review A, 2010, 82, .	2.5	15
94	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
95	Permanent dipole moment of LiCs in the ground state. Physical Review A, 2010, 82, .	2.5	41
96	Photoionization spectroscopy of excited states of cold caesium dimers. Molecular Physics, 2010, 108, 2355-2368.	1.7	11
97	Reinvestigation of the Rb_2 $(2)3g^{\sim}$ band on helium nanodroplets. Journal of Chemical Physics, 2010, 132, 054304.	3.0	26
98	Potential energy and dipole moment surfaces of H_3^{\sim} molecule. Journal of Chemical Physics, 2010, 132, 194309.	3.0	41
99	Rovibrational controlled-NOT gates using optimized stimulated Raman adiabatic passage techniques and optimal control theory. Physical Review A, 2009, 80, .	2.5	26
100	Efficient formation of deeply bound ultracold molecules probed by broadband detection. Physical Review A, 2009, 79, .	2.5	26
101	Photoassociative molecular spectroscopy for atomic radiative lifetimes. Physica Scripta, 2009, T134, 014014.	2.5	20
102	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
103	Dark resonances for ground-state transfer of molecular quantum gases. Applied Physics B: Lasers and Optics, 2009, 95, 219-225.	2.2	39
104	Core repulsion effects in alkali trimers. International Journal of Quantum Chemistry, 2009, 109, 3387-3398.	2.0	6
105	Precision molecular spectroscopy for ground state transfer of molecular quantum gases. Faraday Discussions, 2009, 142, 283.	3.2	15
106	Spectroscopic observations, spin-orbit functions, and coupled-channel deperturbation analysis of data on the A^{\sim} of Rb^2 . Physical Review A, 2009, 80, .	2.5	44
107	Spectroscopy of triplet states of Rb^2 femtosecond pump-probe photoionization of doped helium nanodroplets. Physical Review A, 2009, 80, .	2.5	31
108	Influence of a Feshbach resonance on the photoassociation of LiCs. New Journal of Physics, 2009, 11, 055034.	2.9	38

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109	Electronic structure of the magnesium hydride molecular ion. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 154025.	1.5	34
110	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
111	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
112	Formation of ultracold dipolar molecules in the lowest vibrational levels by photoassociation. Faraday Discussions, 2009, 142, 335.	3.2	18
113	Broadband lasers to detect and cool the vibration of cold molecules. Faraday Discussions, 2009, 142, 257.	3.2	5
114	Quantum Gas of Deeply Bound Ground State Molecules. Science, 2008, 321, 1062-1066.	12.6	332
115	Calculations of static dipole polarizabilities of alkali dimers: Prospects for alignment of ultracold molecules. Journal of Chemical Physics, 2008, 129, 064309.	3.0	123
116	Formation of Ultracold Polar Molecules in the Rovibrational Ground State. Physical Review Letters, 2008, 101, 133004.	7.8	517
117	Optical Pumping and Vibrational Cooling of Molecules. Science, 2008, 321, 232-234.	12.6	241
118	Accurate Calculations of Electronic Properties of Alkali Dimers for Ultracold Molecule Formation. AIP Conference Proceedings, 2007, , .	0.4	1
119	Electronic Structure of Alkali Polar Ions. AIP Conference Proceedings, 2007, , .	0.4	4
120	Experimental evidence for an isotopic effect in the formation of ultracold ground-state rubidium dimers. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 3283-3293.	1.5	15
121	Absorption spectroscopy of the rubidium dimer in an overheated vapor: An accurate check of molecular structure and dynamics. Physical Review A, 2007, 75, .	2.5	37
122	Calculations of transition and permanent dipole moments of heteronuclear alkali dimers NaK, NaRb and NaCs. Molecular Physics, 2007, 105, 1733-1742.	1.7	54
123	Reexamination of the $0g^{\sim}$ pure long-range state of Cs ₂ : Prediction of missing levels in the photoassociation spectrum. Physical Review A, 2007, 75, .	2.5	39
124	Precision measurements with polar molecules: the role of the black body radiation. Molecular Physics, 2007, 105, 1723-1731.	1.7	32
125	Predictions for the observation of KRb spectra under cold conditions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, S1191-S1201.	1.5	26
126	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

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127	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
128	Perturbation effects in photoassociation spectra of ultracold Cs ₂ . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, S981-S992.	1.5	17
129	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
130	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
131	Cold molecules: a chemistry kitchen for physicists?. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, .	1.5	47
132	Comment on "Calculation of accurate permanent dipole moments of the lowest $\hat{\Sigma}^{+1,3}$ states of heteronuclear alkali dimers using extended basis sets" [J. Chem. Phys. 122, 204302 (2005)]. <i>Journal of Chemical Physics</i> , 2006, 125, 047101.	3.0	21
133	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
134	Study of coupled states for the (4s ²)1S + (4s4p)3P asymptote of Ca ₂ . <i>European Physical Journal D</i> , 2005, 35, 483-497.	1.3	19
135	Saturation of Cs ₂ photoassociation in an optical dipole trap. <i>Physical Review A</i> , 2005, 71, .	2.5	25
136	Calculation of accurate permanent dipole moments of the lowest $\hat{\Sigma}^{+1,3}$ states of heteronuclear alkali dimers using extended basis sets. <i>Journal of Chemical Physics</i> , 2005, 122, 204302.	3.0	308
137	Formation of cold alkali dimers on helium nanodroplets. <i>European Physical Journal D</i> , 2004, 31, 291-299.	1.3	47
138	Prospects for the formation of ultracold ground state polar molecules from mixed alkali atom pairs. <i>European Physical Journal D</i> , 2004, 31, 195-203.	1.3	44
139	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
140	Mapped grid methods for long-range molecules and cold collisions. <i>Journal of Chemical Physics</i> , 2004, 120, 548-561.	3.0	120
141	Playing With a Pair of Ultracold Atoms and Lasers: Towards a Novel Ultracold Photochemistry?. <i>Israel Journal of Chemistry</i> , 2004, 44, 253-262.	2.3	5
142	Observation of the long-range potential well of the $\text{Na } (6^1\Sigma^+_g(3s+5s))_2$ state. <i>European Physical Journal D</i> , 2003, 26, 173-185.	1.3	14
143	Optical manipulation of long-range interactions at the 3s + 3p asymptote of Na_2 . <i>European Physical Journal D</i> , 2003, 26, 307-318.	1.3	5
144	Model-potential calculations for ground and excited \hat{A} states of Rb ₂ ⁺ , Cs ₂ ⁺ and RbCs ⁺ ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 4799-4812.	1.5	18

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145	Formation of ultracold molecules by photoassociation: theoretical developments. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 1083.	2.1	16
146	Ultra-cold Molecules: Formation, Trapping and Prospects. Physica Scripta, 2003, T105, 7.	2.5	3
147	Ultracold Molecules: Formation, Detection. , 2003, , 333-342.		0
148	The Cs ₂ ground electronic state by Fourier transform spectroscopy: Dispersion coefficients. Journal of Chemical Physics, 2002, 117, 5155-5164.	3.0	47
149	Determination of the ⁸⁷ Rb 5p state dipole matrix element and radiative lifetime from the photoassociation spectroscopy of the Rb ₂ $\tilde{g}(P_{3/2})$ long-range state. Physical Review A, 2002, 66, .	2.5	65
150	Determination of the Cs ₂ $\tilde{g}(P_{3/2})$ potential curve and of Cs ₆ P _{1/2,3/2} atomic radiative lifetimes from photoassociation spectroscopy. Physical Review A, 2002, 66, .	2.5	60
151	Photoassociative Spectroscopy Of Cs ₂ . , 2002, , 313-321.		0
152	Ultracold Molecules: Formation, Detection. AIP Conference Proceedings, 2002, , .	0.4	0
153	Formation of Cs $\tilde{g}(P_{3/2})$ molecules via Feshbach resonances stabilized by spontaneous emission: theoretical treatment with the Fourier grid method. European Physical Journal D, 2002, 20, 77-86.	1.3	7
154	Photoionization and detection of ultracold Cs ₂ molecules through diffuse bands. European Physical Journal D, 2002, 18, 365-370.	1.3	13
155	Title is missing!. European Physical Journal D, 2002, 18, 365-370.	1.3	10
156	Resonant Coupling in the Formation of Ultracold Ground State Molecules via Photoassociation. Physical Review Letters, 2001, 86, 2253-2256.	7.8	106
157	Inversion analysis of K ₂ coupled electronic states with the Fourier grid method. European Physical Journal D, 2001, 17, 319-328.	1.3	39
158	Formation of ultracold molecules via photoassociation with blue detuned laser light. European Physical Journal D, 2001, 15, 355-363.	1.3	15
159	Cold rubidium molecule formation through photoassociation: A spectroscopic study of the \tilde{g} -long-range state of ⁸⁷ Rb ₂ . European Physical Journal D, 2001, 15, 189-198.	1.3	51
160	Photoassociation, cold molecules and prospects. Comptes Rendus Physique, 2001, 2, 681-686.	0.1	0
161	Optimal control of photoassociation of cold atoms and photodissociation of long-range molecules: Characteristic times for wave-packet propagation. Physical Review A, 2001, 63, .	2.5	29
162	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

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163	Formation of cold Cs ground state molecules through photoassociation in the pure long-range state. European Physical Journal D, 2000, 11, 59-71.	1.3	54
164	Multichannel tunneling in the Cs ₂ g ⁺ photoassociation spectrum. Physical Review A, 2000, 61, .	2.5	43
165	Theoretical treatment of channel mixing in excited Rb ₂ and Cs ₂ ultracold molecules: Perturbations in 0u ⁺ photoassociation and fluorescence spectra. Physical Review A, 2000, 62, .	2.5	47
166	Experimental versus theoretical rates for photoassociation and for formation of ultracold molecules. IEEE Journal of Quantum Electronics, 2000, 36, 1378-1388.	1.9	58
167	Coherent control of cold-molecule formation through photoassociation using a chirped-pulsed-laser field. Physical Review A, 2000, 63, .	2.5	100
168	Photoassociative Spectroscopy and Formation of Cold Molecules. Physica Scripta, 2000, T86, 38.	2.5	0
169	Resolution of the Apparent Disorder of the Rb ₂ A ₁ u ⁺ and b ₃ u ⁺ Spectra: A Case of Fully Coupled Electronic States. Physical Review Letters, 1999, 83, 2316-2319.	7.8	60
170	Generalized simulated annealing method in the analysis of atom-atom interaction. Chemical Physics Letters, 1999, 300, 131-139.	2.6	19
171	How to get access to long range states of highly excited molecules. European Physical Journal D, 1999, 5, 237-242.	1.3	9
172	Photoassociative spectroscopy of the Cs ₂ 0 _g ⁺ long-range state. European Physical Journal D, 1999, 5, 389-403.	1.3	106
173	Photoassociative Spectroscopy and Formation of Cold Molecules in Cold Cesium Vapor: Trap Loss Spectrum versus Ion Spectrum. Journal of Molecular Spectroscopy, 1999, 195, 229-235.	1.2	48
174	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
175	Simple determination of Na. European Physical Journal D, 1999, 6, 211.	1.3	67
176	Spectroscopy and Lifetimes of the 1 ² u State of Na ₂ : A New Comparison between Theory and Experiment. Journal of Molecular Spectroscopy, 1998, 191, 81-87.	1.2	1
177	Formation of Cold Cs ₂ Molecules through Photoassociation. Physical Review Letters, 1998, 80, 4402-4405.	7.8	499
178	Translationally cold Cs ₂ molecules formation in a magneto-optical trap. , 1998, .		0
179	Photoassociation in a gas of cold alkali atoms: I. Perturbative quantum approach. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, 2801-2820.	1.5	72
180	Quasibound states in long-range alkali dimers: Grid method calculations. Journal of Chemical Physics, 1997, 107, 10633-10642.	3.0	27

#	ARTICLE	IF	CITATIONS
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