

# Maxence Lepers

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

417  
citations

840776

11  
h-index

713466

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22  
docs citations

22  
times ranked

379  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultracold Dipolar Molecules Composed of Strongly Magnetic Atoms. <i>Physical Review Letters</i> , 2015, 115, 203201.	7.8	76
2	Anisotropic optical trapping of ultracold erbium atoms. <i>Physical Review A</i> , 2014, 89, .	2.5	35
3	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
4	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
5	Long-range interactions between polar alkali-metal diatoms in external electric fields. <i>Physical Review A</i> , 2013, 88, .	2.5	31
6	Anisotropic polarizability of erbium atoms. <i>Physical Review A</i> , 2018, 97, .	2.5	29
7	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
8	Optical Shielding of Destructive Chemical Reactions between Ultracold Ground-State NaRb Molecules. <i>Physical Review Letters</i> , 2020, 125, 153202.	7.8	25
9	Spontaneous emission and energy shifts of a Rydberg rubidium atom close to an optical nanofiber. <i>Physical Review A</i> , 2020, 101, .	2.5	23
10	Anisotropic optical trapping as a manifestation of the complex electronic structure of ultracold lanthanide atoms: The example of holmium. <i>Physical Review A</i> , 2017, 95, .	2.5	22
11	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
12	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
13	Proposal for laser cooling of rare-earth ions. <i>Physical Review A</i> , 2016, 93, .	2.5	10
14	Spontaneous emission of a sodium Rydberg atom close to an optical nanofibre. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019, 52, 045503.	1.5	10
15	Ultracold Rare-Earth Magnetic Atoms with an Electric Dipole Moment. <i>Physical Review Letters</i> , 2018, 121, 063201.	7.8	8
16	Observation of a narrow inner-shell orbital transition in atomic erbium at 1299 Ånm. <i>Physical Review Research</i> , 2021, 3, .	3.6	8
17	Quantum mechanical study of the high-temperature $H^+ + HD \hat{\rightarrow} D^+ + H_2$ reaction for the primordial universe chemistry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 4732-4739.	4.4	5
18	Four-body long-range interactions between ultracold weakly-bound diatomic molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 014004.	1.5	4

#	ARTICLE	IF	CITATIONS
19	Purely long-range polar molecules composed of identical lanthanide atoms. Physical Review A, 2019, 100.	2.5	3
20	Quantum dynamics of $O$ in collision with ortho- and para- $O_2$ in collision with ortho- and para- $O_2$ .	2.5	3
21	Optical shielding of destructive chemical reactions between ultracold ground-state NaRb molecules. , 2021, , .		0