

Benoît Darqui

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

802
citations

516710

16
h-index

752698

20
g-index

24
all docs

24
docs citations

24
times ranked

750
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress toward the first observation of parity violation in chiral molecules by high-resolution laser spectroscopy. <i>Chirality</i> , 2010, 22, 870-884.	2.6	129
2	Quantum cascade laser frequency stabilization at the sub-Hz level. <i>Nature Photonics</i> , 2015, 9, 456-460.	31.4	120
3	Probing weak force-induced parity violation by high-resolution mid-infrared molecular spectroscopy. <i>Molecular Physics</i> , 2013, 111, 2363-2373.	1.7	69
4	Progress towards an accurate determination of the Boltzmann constant by Doppler spectroscopy. <i>New Journal of Physics</i> , 2011, 13, 073028.	2.9	66
5	Long-Lived Circularly Polarized Phosphorescence in Helicene-NHC Rhenium(I) Complexes: The Influence of Helicene, Halogen, and Stereochemistry on Emission Properties. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8394-8400.	13.8	64
6	Lamb-dips and Lamb-peaks in the saturation spectrum of HD. <i>Optics Letters</i> , 2019, 44, 4733.	3.3	46
7	A widely tunable 10- μ m quantum cascade laser phase-locked to a state-of-the-art mid-infrared reference for precision molecular spectroscopy. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	44
8	High-precision methanol spectroscopy with a widely tunable SI-traceable frequency-comb-based mid-infrared QCL. <i>Optica</i> , 2019, 6, 411.	9.3	38
9	A new experiment to test parity symmetry in cold chiral molecules using vibrational spectroscopy. <i>Quantum Electronics</i> , 2019, 49, 288-292.	1.0	31
10	Mid-infrared laser phase-locking to a remote near-infrared frequency reference for high-precision molecular spectroscopy. <i>New Journal of Physics</i> , 2013, 15, 073003.	2.9	29
11	Measuring the Boltzmann constant by mid-infrared laser spectroscopy of ammonia. <i>Metrologia</i> , 2015, 52, S314-S323.	1.2	28
12	High resolution spectroscopy of methyltrioxorhenium: towards the observation of parity violation in chiral molecules. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 854-863.	2.8	23
13	Absorption-line-shape recovery beyond the detection-bandwidth limit: Application to the precision spectroscopic measurement of the Boltzmann constant. <i>Physical Review A</i> , 2014, 90, .	2.5	22
14	Long-Lived Circularly Polarized Phosphorescence in Helicene-NHC Rhenium(I) Complexes: The Influence of Helicene, Halogen, and Stereochemistry on Emission Properties. <i>Angewandte Chemie</i> , 2020, 132, 8472-8478.	2.0	22
15	A chiral rhenium complex with predicted high parity violation effects: synthesis, stereochemical characterization by VCD spectroscopy and quantum chemical calculations. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 10952.	2.8	21
16	Characterising molecules for fundamental physics: an accurate spectroscopic model of methyltrioxorhenium derived from new infrared and millimetre-wave measurements. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 4576-4587.	2.8	16
17	High-resolution mid-infrared spectroscopy of buffer-gas-cooled methyltrioxorhenium molecules. <i>New Journal of Physics</i> , 2017, 19, 053006.	2.9	15
18	Linear Probing of Molecules at Micrometric Distances from a Surface with Sub-Doppler Frequency Resolution. <i>Physical Review Letters</i> , 2021, 127, 043201.	7.8	7

#	ARTICLE	IF	CITATIONS
19	An oxorhenium complex bearing a chiral cyclohexane-1,2-diolato-2-thiolato ligand: Synthesis, stereochemistry, and theoretical study of parity violation vibrational frequency shifts. <i>Chirality</i> , 2018, 30, 147-156.	2.6	6
20	Valence-shell photoelectron circular dichroism of ruthenium(^{III})-tris-(acetylacetonato) gas-phase enantiomers. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 24140-24153.	2.8	6
21	High-Precision Mid-Infrared Spectroscopy with a Widely Tuneable SI-Traceable Frequency-Comb-Stabilised QCL. , 2019, , .		0
22	Frontispiz: Long-Lived Circularly Polarized Phosphorescence in Helicene-NHC Rhenium(I) Complexes: The Influence of Helicene, Halogen, and Stereochemistry on Emission Properties. <i>Angewandte Chemie</i> , 2020, 132, .	2.0	0
23	Frontispiece: Long-Lived Circularly Polarized Phosphorescence in Helicene-NHC Rhenium(I) Complexes: The Influence of Helicene, Halogen, and Stereochemistry on Emission Properties. <i>Angewandte Chemie - International Edition</i> , 2020, 59, .	13.8	0
24	Mise en Pratique of the New Kelvin Using Doppler Broadening Thermometry with a Direct Link to the Primary Frequency Standards. , 2020, , .		0