Celine Leonard

List of Publications by Year in descending order

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516710 434195 1,161 71 16 31 citations h-index g-index papers 71 71 71 927 citing authors docs citations times ranked all docs

#	Article	IF	CITATIONS
1	Calculation and selective population of vibrational levels with the Multiconfiguration Time-Dependent Hartree (MCTDH) algorithm. Chemical Physics, 2006, 329, 179-192.	1.9	215
2	Tuning the band gap and optical spectra of silicon-doped graphene: Many-body effects and excitonic states. Journal of Alloys and Compounds, 2017, 693, 1185-1196.	5.5	119
3	Quasi-particle energies and optical excitations of wurtzite BeO and its nanosheet. Journal of Alloys and Compounds, 2016, 682, 254-262.	5.5	63
4	The vibrational levels of ammonia. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2002, 58, 825-838.	3.9	62
5	Time-dependent wave packet study ontrans-cisisomerization of HONO driven by an external field. Journal of Chemical Physics, 2007, 127, 164315.	3.0	47
6	The barrier to inversion of ammonia. Chemical Physics Letters, 2003, 370, 360-365.	2.6	43
7	Potential Energy Function and Vibrational States of the Electronic Ground State of N4+. Journal of Physical Chemistry A, 1999, 103, 1846-1852.	2.5	37
8	Potential energy function and vibrational states of N2CO+. Journal of Chemical Physics, 1999, 111, 4948-4955.	3.0	29
9	Rovibrational energy levels of the F ^{â^'} (H ₂ O) and F ^{â^'} (D ₂ O) complexes. Physical Chemistry Chemical Physics, 2016, 18, 17678-17690.	2.8	22
10	New study of the stability and of the spectroscopy of the molecular anions NCOâ ⁻ and CNOâ ⁻ . Journal of Chemical Physics, 2010, 133, 124318.	3.0	21
11	The selective population of the vibrational levels of thioformaldehyde. Physical Chemistry Chemical Physics, 2001, 3, 508-513.	2.8	20
12	Theoretical investigation of intramolecular vibrational energy redistribution in HFCO and DFCO induced by an external field. Journal of Chemical Physics, 2008, 129, 144304.	3.0	18
13	Renner–Teller effect in linear tetra-atomic molecules. I. Variational method including couplings between all degrees of freedom on six-dimensional potential energy surfaces. Journal of Chemical Physics, 2009, 130, 134301.	3.0	18
14	Argon Interaction with Gold Surfaces: <i>Ab Initio</i> -Assisted Determination of Pair Ar–Au Potentials for Molecular Dynamics Simulations. Journal of Physical Chemistry A, 2015, 119, 6897-6908.	2.5	18
15	Ab initio study of the low-lying electronic states of the CaO molecule. Chemical Physics, 2011, 386, 50-55.	1.9	17
16	Effects of surface morphology and anisotropy on the tangential-momentum accommodation coefficient between Pt(100) and Ar. Physical Review E, 2012, 86, 051201.	2.1	17
17	Free-path distribution and Knudsen-layer modeling for gaseous flows in the transition regime. Physical Review E, 2015, 91, 023015.	2.1	17
18	Renner–Teller effect in linear tetra-atomic molecules. II. Rovibronic levels analysis of the X Î2u electronic state of HCCH+. Journal of Chemical Physics, 2009, 130, 134302.	3.0	16

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19	Selective vibrational excitations in the OX (X=F, Cl, Br, I) molecules. Physical Chemistry Chemical Physics, 2000, 2, 1117-1122.	2.8	15
20	A slip model for micro/nano gas flows induced by body forces. Microfluidics and Nanofluidics, 2010, 8, 417-422.	2.2	15
21	Theoretical Study of the Rovibronic States of CaO. Journal of Molecular Spectroscopy, 2012, 271, 1-9.	1.2	14
22	Non-parametric wall model and methods of identifying boundary conditions for moments in gas flow equations. Physics of Fluids, $2018, 30, .$	4.0	14
23	Prediction of thermal conductance and friction coefficients at a solid-gas interface from statistical learning of collisions. Physical Review E, 2018, 98, .	2.1	13
24	Influence of the pairwise potential on the tangential momentum accommodation coefficient: a multi-scale study applied to the argon on $Pt(111)$ system. European Physical Journal B, 2013, 86, 1.	1.5	12
25	Bound electronic states X1Σ+, a3Πand A1Πof C2B Physical Chemistry Chemical Physics, 1999, 1, 1827-1832.	2.8	11
26	Theoretical determination of the vibrational levels of NH+3and its isotopomers. Molecular Physics, 2001, 99, 1335-1346.	1.7	11
27	Theoretical enthalpies of formation of large compounds using integrated methods. Physical Chemistry Chemical Physics, 2002, 4, 4096-4102.	2.8	11
28	Spin–orbit coupling in the X2Πstate of NCS. Chemical Physics Letters, 2004, 398, 123-129.	2.6	11
29	New Variational Method for the Ab Initio Study in Valence Coordinates of the Rennerâ'Teller Effect in Tetra-Atomic Systems. Journal of Chemical Theory and Computation, 2010, 6, 1565-1579.	5.3	11
30	Non-covalent functionalization of single walled carbon nanotubes with Fe-/Co-porphyrin and Co-phthalocyanine for field-effect transistor applications. Organic Electronics, 2021, 96, 106212.	2.6	11
31	Molecular Dynamics Simulations of Pressure-Driven Flows and Comparison with Acceleration-Driven Flows. Advances in Mechanical Engineering, 2012, 4, 580763.	1.6	11
32	Theoretical determination of the vibrational levels of NH3+with MULTIMODE. Physical Chemistry Chemical Physics, 2002, 4, 4087-4095.	2.8	10
33	Ab initio study of the spectroscopy of the X2Î electronic ground states of CNO and NCO. Journal of Molecular Spectroscopy, 2007, 243, 90-98.	1.2	10
34	Theoretical Investigations on CaO Ions: Vibronic States and Photoelectron Spectroscopy. Journal of Physical Chemistry A, 2013, 117, 11254-11260.	2.5	10
35	A theoretical spectroscopic study of Hel and HeBr. Physical Chemistry Chemical Physics, 2005, 7, 1694-1699.	2.8	9
36	Radiative transition probabilities in the state of. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 535-548.	2.3	9

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37	Electronic States, Potential Energy Surface, and Theoretical Spectroscopy of Be ₂ H ₂ . Journal of Physical Chemistry A, 2012, 116, 9484-9489.	2.5	9
38	Wet-Chemical Noncovalent Functionalization of CVD Graphene: Molecular Doping and Its Effect on Electrolyte-Gated Graphene Field-Effect Transistor Characteristics. Journal of Physical Chemistry C, 2022, 126, 4522-4533.	3.1	9
39	Large amplitude vibrations in the X [sup 2]A[sub 1] state of C[sub 2]B. Journal of Chemical Physics, 2000, 113, 5228.	3.0	8
40	Ab initiostudy of the low lying electronic states of ZnF and ZnFâ°'. Journal of Chemical Physics, 2008, 129, 044313.	3.0	8
41	Boundary conditions for gas flow problems from anisotropic scattering kernels. Journal of Mathematical Physics, 2015, 56, .	1.1	8
42	Spin-dependent and Coriolis interactions by an improved configuration interaction treatment: predissociation of excited fine structure levels of OH/OD. Molecular Physics, 2000, 98, 1713-1727.	1.7	7
43	xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si240.gif" display="inline" overflow="scroll"> <mml:mrow><mml:mrow><mml:mrow><mml:mtext>A</mml:mtext></mml:mrow><mml:mrow><mml:mrow></mml:mrow><td>v><mml:r p><td>nn>2nrow></td></mml:r </td></mml:mrow></mml:mrow></mml:mrow>	v> <mml:r p><td>nn>2nrow></td></mml:r 	nn>2nrow>
44	di. Chemical Physics Letters, 2008, 458, 24-28. CCSD(T)â€F12 investigations on HBNH and its isotopologues. International Journal of Quantum Chemistry, 2012, 112, 2051-2061.	2.0	7
45	Helium and Argon Interactions with Gold Surfaces: Ab Initio-Assisted Determination of the He–Au Pairwise Potential and Its Application to Accommodation Coefficient Determination. Journal of Physical Chemistry C, 2018, 122, 14606-14614.	3.1	7
46	Mg2H2: New insight on the Mg–Mg bonding and spectroscopic study. Journal of Chemical Physics, 2011, 134, 054314.	3.0	6
47	Study of the $\frac{m X}^2PiX^2f^2$ state of the SiCN/SiNC Renner-Teller system. Journal of Chemical Physics, 2013, 138, 104311.	3.0	6
48	Tensorial slip theory for gas flows and comparison with molecular dynamics simulations using an anisotropic gas-wall collision mechanism. Physical Review E, 2013, 87, 053012.	2.1	6
49	Theoretical study of the A–X transition in C2Bâ^'. Chemical Physics, 2001, 264, 267-273.	1.9	5
50	Ab initiostudy of the spin–orbit coupling between the A and b3Îuelectronic states of Na2. Molecular Physics, 2007, 105, 1095-1104.	1.7	5
51	Theoretical spectroscopy of the HNClâ^ anion. Molecular Physics, 2011, 109, 2655-2662.	1.7	5
52	Rovibrational energies of B2H2() from an explicitly correlated potential energy surface. Computational and Theoretical Chemistry, 2013, 1025, 24-29.	2.5	5
53	Spin-dependent and Coriolis interactions by an improved configuration interaction treatment: predissociation of excited fine structure levels of OH/OD. Molecular Physics, 2000, 98, 1713-1727.	1.7	5
54	Theoretical Study of the A2Î \pounds +-X2Î Transition of CCO Collection of Czechoslovak Chemical Communications, 2001, 66, 983-990.	1.0	4

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55	Ab initiostudy of the C2O+cation. Molecular Physics, 2007, 105, 1105-1114.	1.7	4
56	Theoretical study of the predissociation of the A2Î state of ZnF including quasi-diabatisation of the spin-orbit coupling. Journal of Chemical Physics, 2012, 137, 164318.	3.0	4
57	<i>Ab initio</i> ro-vibronic spectroscopy of SiCCl (\$ilde{X}^2Pi\$XÌf2Î). Journal of Chemical Physics, 2014, 141, 034305.	3.0	4
58	Multiscale Study of Gas Slip Flows in Nanochannels. Journal of Heat Transfer, 2015, 137, .	2.1	4
59	A theoretical study of the Renner–Teller effect in the X̃2Îg state of C3â^'. Chemical Physics Letters, 2001, 335, 97-104.	2.6	3
60	Ab initio Study of HZnF. Journal of Physical Chemistry A, 2009, 113, 14615-14624.	2.5	3
61	Spectroscopic properties of trichlorofluoromethane CCl3F calculated by density functional theory. Physical Chemistry Chemical Physics, 2007, 9, 5027.	2.8	2
62	Simulation of the $\langle i \rangle \tilde{A} f \langle i \rangle \langle \sup \rangle 2 \langle \sup \rangle \hat{L} \langle \sup \rangle + \langle \sup \rangle \hat{A} \in (i \rangle X) f \langle i \rangle \langle \sup \rangle 2 \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle i \rangle \langle \sup \rangle \hat{A} = (i \rangle X) f \langle \sup \rangle \hat{A} = (i $	1.7	2
63	Ab initio investigations on the CaO2+ dication. Computational and Theoretical Chemistry, 2015, 1052, 1-5.	2.5	2
64	Strain-induced friction anisotropy between graphene and molecular liquids. Journal of Chemical Physics, 2017, 146, 014707.	3.0	2
65	Oxidation of Silver Cyanide Ag(CN) ₂ ^{â€"} by the OH Radical: From <i>Ab Initio</i> Calculation to Molecular Simulation and to Experiment. Journal of Physical Chemistry A, 2020, 124, 10787-10798.	2.5	2
66	Raw and processed data used in non-covalent functionalization of single walled carbon nanotubes with Co-porphyrin and Co-phthalocyanine and its effect on field-effect transistor characteristics. Data in Brief, 2021, 38, 107366.	1.0	2
67	Electronic states and rovibrational spectroscopy of the HAIF+ and HAICI+ cations. Computational and Theoretical Chemistry, 2012, 997, 19-24.	2.5	1
68	Different Time Scales in the Dissociation Dynamics of Core-Excited CF4 by Two Internal Clocks. Physical Review Letters, 2017, 119, 203203.	7.8	1
69	Multiscale Study of Gas Slip Flows in Nanochannels. , 2013, , .		1
70	Velocity Slip and Temperature Jump for Gas Flows Past Anisotropic Surfaces: Analytical Derivation and Numerical Simulation. , 2016, , .		0
71	Imidazole functionalized graphene and carbon nanotubes for CO2 detection. Journal of Molecular Structure, 2022, 1259, 132719.	3.6	0