

# Hubert Cybulski

## List of Publications by Year in descending order

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34  
papers

629  
citations

623734

14  
h-index

580821

25  
g-index

34  
all docs

34  
docs citations

34  
times ranked

834  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Ab initio</i> investigation of the CO–N <sub>2</sub> quantum scattering: The collisional perturbation of the pure rotational R(0) line in CO. <i>Journal of Chemical Physics</i> , 2021, 154, 054314.	3.0	8
2	Corrigendum to “Hyperfine structure of quadrupole rovibrational transitions in tritium-bearing hydrogen isotopologues” [ <i>J. Quant. Spectrosc. Radiat. Transf.</i> 256 (2020), 107255]. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 266, 107602.	2.3	0
3	$\langle H \rangle$ state in $H_2$ molecule. <i>Physical Review A</i> , 2021, 103, 042801.	2.5	3
4	Hyperfine components of rovibrational dipole transitions in HT and DT. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 270, 107662.	2.3	5
5	Hyperfine structure of rovibrational quadrupole transitions in HD. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 272, 107753.	2.3	4
6	Corrigendum to “Hyperfine components of all rovibrational quadrupole transitions in the H <sub>2</sub> and D <sub>2</sub> molecules” [ <i>J. Quant. Spectrosc. Radiat. Transf.</i> 253 (2020), 107186]. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 271, 107750.	2.3	0
7	Evaluation of different parameterizations of temperature dependences of the line-shape parameters based on <i>ab initio</i> calculations: Case study for the HITRAN database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 240, 106676.	2.3	25
8	Subpercent agreement between <i>ab initio</i> and experimental collision-induced line shapes of carbon monoxide perturbed by argon. <i>Physical Review A</i> , 2020, 102, .	2.5	9
9	Hyperfine components of all rovibrational quadrupole transitions in the H <sub>2</sub> and D <sub>2</sub> molecules. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 253, 107186.	2.3	13
10	Hyperfine structure of quadrupole rovibrational transitions in tritium-bearing hydrogen isotopologues. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 256, 107255.	2.3	4
11	Positions and intensities of hyperfine components of all rovibrational dipole lines in the HD molecule. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 253, 107171.	2.3	11
12	<i>Ab initio</i> studies of the ground and first excited states of the Sr–H <sub>2</sub> and Yb–H <sub>2</sub> complexes. <i>Journal of Chemical Physics</i> , 2019, 150, 064316.	3.0	1
13	<i>Ab initio</i> study of the CO–N <sub>2</sub> complex: a new highly accurate intermolecular potential energy surface and rovibrational spectrum. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 12624-12636.	2.8	14
14	Strong competition between velocity-changing and phase- or state-changing collisions in $H_2$ spectra perturbed by Ar. <i>Physical Review A</i> , 2015, 91, .	2.5	27
15	Theoretical Study of the Pyridine–Helium van der Waals Complexes. <i>Journal of Physical Chemistry A</i> , 2015, 119, 10999-11006.	2.5	2
16	Small and Efficient Basis Sets for the Evaluation of Accurate Interaction Energies: Aromatic Molecule–Argon Ground-State Intermolecular Potentials and Rovibrational States. <i>Journal of Physical Chemistry A</i> , 2014, 118, 10288-10297.	2.5	7
17	Power-law temperature dependence of collision broadening and shift of atomic and molecular rovibronic lines. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 120, 90-103.	2.3	14
18	A high-accuracy theoretical study of the CH–P Systems. <i>Journal of Computational Chemistry</i> , 2013, 34, 2020-2031.	3.3	6

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19	<i>Ab initio</i> ground state phenylacetylene-argon intermolecular potential energy surface and rovibrational spectrum. <i>Journal of Chemical Physics</i> , 2012, 137, 074305.	3.0	9
20	<i>Ab Initio</i> Ground- and Excited-State Intermolecular Potential Energy Surfaces for the NO-Ne and NO-Ar van der Waals Complexes. <i>Journal of Physical Chemistry A</i> , 2012, 116, 7319-7328.	2.5	40
21	Triarylamine Substituted Arylene Bisimides as Solution Processable Organic Semiconductors for Field Effect Transistors. Effect of Substituent Position on Their Spectroscopic, Electrochemical, Structural, and Electrical Transport Properties. <i>Journal of Physical Chemistry C</i> , 2011, 115, 15008-15017.	3.1	52
22	Calculated Nuclear Magnetic Resonance Parameters for Multiproton-Exchange and Nonbonded-Hydrogen Rotation Processes in Cyclic Water Clusters. <i>Journal of Physical Chemistry A</i> , 2011, 115, 5774-5784.	2.5	2
23	Arylene bisimides with triarylamine N-substituents as new solution processable organic semiconductors: Synthesis, spectroscopic, electrochemical and electronic properties. <i>Synthetic Metals</i> , 2011, 161, 1600-1610.	3.9	20
24	The water-nitric oxide intermolecular potential-energy surface revisited. <i>Journal of Chemical Physics</i> , 2009, 130, 104303.	3.0	22
25	Electrochemical and spectroscopic characterization of poly(1,8-diaminocarbazole): Part I. Electropolymerization and determination of the polymer structure by FTIR studies and DFT calculations. <i>Electrochimica Acta</i> , 2009, 54, 4743-4750.	5.2	10
26	A computational study of the nuclear magnetic resonance parameters for double proton exchange pathways in the formamide-formic acid and formamide-formamidine complexes. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 11232.	2.8	12
27	Symmetry-Adapted Perturbation-Theory Interaction-Energy Decomposition for Hydrogen-Bonded and Stacking Structures. <i>Journal of Chemical Theory and Computation</i> , 2008, 4, 892-897.	5.3	50
28	On the calculations of the vibrational Raman spectra of small water clusters. <i>Chemical Physics</i> , 2007, 342, 163-172.	1.9	26
29	On the calculations of the nuclear shielding constants in small water clusters. <i>Chemical Physics</i> , 2006, 323, 218-230.	1.9	19
30	On the calculations of the nuclear spin-spin coupling constants in small water clusters. <i>Chemical Physics</i> , 2006, 326, 431-444.	1.9	18
31	The Properties of Weak and Strong Dihydrogen-Bonded D <sub>2</sub> H <sub>2</sub> ...A Complexes. <i>ChemPhysChem</i> , 2006, 7, 629-639.	2.1	34
32	Interaction of NH <sub>3</sub> with He: Potential energy surface, bound states, and collisional Zeeman relaxation. <i>Journal of Chemical Physics</i> , 2005, 122, 094307.	3.0	74
33	Theoretical Studies of Nuclear Magnetic Resonance Parameters for the Proton-Exchange Pathways in Porphyrin and Porphycene. <i>Journal of Physical Chemistry A</i> , 2005, 109, 4162-4171.	2.5	22
34	Characterization of dihydrogen-bonded D <sub>2</sub> H <sub>2</sub> -A complexes on the basis of infrared and magnetic resonance spectroscopic parameters. <i>Journal of Chemical Physics</i> , 2003, 119, 5094-5104.	3.0	66