

# Antti Lignell

## List of Publications by Year in descending order

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35  
papers

1,847  
citations

304743

22  
h-index

361022

35  
g-index

37  
all docs

37  
docs citations

37  
times ranked

1965  
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional imaging for the quantification of spatial patterns in microbiota of the intestinal mucosa. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2118483119.	7.1	18
2	Visible-light photoionization of aromatic molecules in water-ice: Organic chemistry across the universe with less energy. Chemical Physics Letters, 2021, 778, 138814.	2.6	6
3	Spatial Genomic Analysis: A Multiplexed Transcriptional Profiling Method that Reveals Subpopulations of Cells Within Intact Tissues. Methods in Molecular Biology, 2018, 2002, 151-163.	0.9	4
4	Directed Evolution of a Bright Near-Infrared Fluorescent Rhodopsin Using a Synthetic Chromophore. Cell Chemical Biology, 2017, 24, 415-425.	5.2	55
5	Identification of a neural crest stem cell niche by Spatial Genomic Analysis. Nature Communications, 2017, 8, 1830.	12.8	82
6	Single-molecule RNA detection at depth via hybridization chain reaction and tissue hydrogel embedding and clearing. Development (Cambridge), 2016, 143, 2862-7.	2.5	174
7	Whole-body tissue stabilization and selective extractions via tissue-hydrogel hybrids for high-resolution intact circuit mapping and phenotyping. Nature Protocols, 2015, 10, 1860-1896.	12.0	234
8	Mixing of the Immiscible: Hydrocarbons in Water-Ice near the Ice Crystallization Temperature. Journal of Physical Chemistry A, 2015, 119, 2607-2613.	2.5	26
9	Matrix effect on vibrational frequencies: Experiments and simulations for HCl and HNgCl (Ng = Kr and) Tj ETQq1 1 0,784314 19 BT /Ov	3.0	21
10	Spectroscopic studies of non-volatile residue formed by photochemistry of solid C <sub>4</sub> N <sub>2</sub> : A model of condensed aerosol formation on Titan. Icarus, 2014, 234, 81-90.	2.5	18
11	Complementary and Emerging Techniques for Astrophysical Ices Processed in the Laboratory. Space Science Reviews, 2013, 180, 101-175.	8.1	68
12	Photochemical activity of Titan's low-altitude condensed haze. Nature Communications, 2013, 4, 1648.	12.8	44
13	Environmental effects on noble-gas hydrides: HXeBr, HXeCCH, and HXeH in noble-gas and molecular matrices. Journal of Chemical Physics, 2013, 139, 204303.	3.0	11
14	SURVIVAL DEPTH OF ORGANICS IN ICES UNDER LOW-ENERGY ELECTRON RADIATION (½ keV). Astrophysical Journal, 2012, 747, 13.	4.5	35
15	Halogenated Xenon Cyanides ClXeCN, ClXeNC, and BrXeCN. Inorganic Chemistry, 2012, 51, 4398-4402.	4.0	58
16	HY-N <sub>2</sub> and HXeY-N <sub>2</sub> complexes in solid xenon (Y=Cl and Br): Unexpected suppression of the complex formation for deposition at higher temperature. Journal of Chemical Physics, 2010, 133, 084309.	3.0	32
17	Matrix-Isolation and Ab Initio Study of the HKrCl-Cl Complex. Journal of Physical Chemistry A, 2009, 113, 10687-10692.	2.5	31
18	Intermolecular interactions involving noble-gas hydrides: Where the blue shift of vibrational frequency is a normal effect. Journal of Molecular Structure, 2008, 889, 1-11.	3.6	59

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19	Experimental and Computational Study of HXeY <sup>+</sup> ·HX Complexes (X, Y = Cl and Br): An Example of Exceptionally Large Complexation Effect. <i>Journal of Physical Chemistry A</i> , 2008, 112, 5486-5494.	2.5	49
20	Formation of noble-gas hydrides and decay of solvated protons revisited: diffusion-controlled reactions and hydrogen atom losses in solid noble gases. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 692-701.	2.8	16
21	Hindered rotation of HArF in solid argon: Infrared spectroscopy and a theoretical model. <i>Physical Review B</i> , 2008, 77, .	3.2	14
22	Matrix isolation and ab initio study of the HXeCCH <sup>+</sup> ·CO <sub>2</sub> complex. <i>Journal of Chemical Physics</i> , 2007, 127, 154313.	3.0	38
23	On theoretical predictions of noble-gas hydrides. <i>Journal of Chemical Physics</i> , 2006, 125, 184514.	3.0	84
24	Insertion of Noble Gas Atoms into Cyanoacetylene: An ab Initio and Matrix Isolation Study. <i>Journal of Physical Chemistry A</i> , 2006, 110, 11876-11885.	2.5	81
25	Protons solvated in noble-gas matrices: Interaction with nitrogen. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 2457-2463.	2.8	10
26	Quantum chemical study of the hydrogen-bonded HXeOH <sup>+</sup> ·H <sub>2</sub> O complex. <i>Journal of Molecular Structure</i> , 2006, 790, 31-39.	3.6	11
27	Interaction of bihalogen anions with nitrogen: Matrix-isolation study and first principle calculations of the (ClHCl) <sup>-</sup> ·N <sub>2</sub> and (BrHBr) <sup>-</sup> ·N <sub>2</sub> complexes. <i>Chemical Physics Letters</i> , 2005, 405, 448-452.	2.6	3
28	Infrared absorption spectrum of matrix-isolated noble-gas hydride molecules: Fingerprints of specific interactions and hindered rotation. <i>Journal of Chemical Physics</i> , 2005, 122, 014510.	3.0	37
29	Neutralization of solvated protons and formation of noble-gas hydride molecules: Matrix-isolation indications of tunneling mechanisms?. <i>Journal of Chemical Physics</i> , 2005, 123, 064507.	3.0	20
30	Formation of HArF in solid Ar revisited: Are mobile vacancies involved in the matrix-site conversion at 30 K?. <i>Journal of Chemical Physics</i> , 2004, 120, 3353-3357.	3.0	17
31	A study on stabilization of HHeF molecule upon complexation with Xe atoms. <i>Chemical Physics Letters</i> , 2004, 390, 256-260.	2.6	33
32	Interaction of rare-gas-containing molecules with nitrogen: Matrix-isolation and ab initio study of HArF <sup>+</sup> ·N <sub>2</sub> , HKrF <sup>+</sup> ·N <sub>2</sub> , and HKrCl <sup>+</sup> ·N <sub>2</sub> complexes. <i>Journal of Chemical Physics</i> , 2003, 118, 11120-11128.	3.0	90
33	Large blueshift of the H <sup>+</sup> ·Kr stretching frequency of HKrCl upon complexation with N <sub>2</sub> . <i>Journal of Chemical Physics</i> , 2002, 117, 961-964.	3.0	63
34	HKrF in solid krypton. <i>Journal of Chemical Physics</i> , 2002, 116, 2508-2515.	3.0	133
35	A More Stable Configuration of HArF in Solid Argon. <i>Journal of the American Chemical Society</i> , 2001, 123, 8610-8611.	13.7	170