

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	Whole-body tissue stabilization and selective extractions via tissue-hydrogel hybrids for high-resolution intact circuit mapping and phenotyping. <i>Nature Protocols</i> , 2015, 10, 1860-1896.	12.0	234
2	Single-molecule RNA detection at depth via hybridization chain reaction and tissue hydrogel embedding and clearing. <i>Development (Cambridge)</i> , 2016, 143, 2862-7.	2.5	174
3	A More Stable Configuration of HArF in Solid Argon. <i>Journal of the American Chemical Society</i> , 2001, 123, 8610-8611.	13.7	170
4	HKrF in solid krypton. <i>Journal of Chemical Physics</i> , 2002, 116, 2508-2515.	3.0	133
5	Interaction of rare-gas-containing molecules with nitrogen: Matrix-isolation and ab initio study of HArFâ€N ₂ , HKrFâ€N ₂ , and HKrClâ€N ₂ complexes. <i>Journal of Chemical Physics</i> , 2003, 118, 11120-11128.	3.0	90
6	On theoretical predictions of noble-gas hydrides. <i>Journal of Chemical Physics</i> , 2006, 125, 184514.	3.0	84
7	Identification of a neural crest stem cell niche by Spatial Genomic Analysis. <i>Nature Communications</i> , 2017, 8, 1830.	12.8	82
8	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
9	Complementary and Emerging Techniques for Astrophysical Ices Processed in the Laboratory. <i>Space Science Reviews</i> , 2013, 180, 101-175.	8.1	68
10	Large blueshift of the Hâ€Kr stretching frequency of HKrCl upon complexation with N ₂ . <i>Journal of Chemical Physics</i> , 2002, 117, 961-964.	3.0	63
11	Intermolecular interactions involving noble-gas hydrides: Where the blue shift of vibrational frequency is a normal effect. <i>Journal of Molecular Structure</i> , 2008, 889, 1-11.	3.6	59
12	Halogenated Xenon Cyanides ClXeCN, ClXeNC, and BrXeCN. <i>Inorganic Chemistry</i> , 2012, 51, 4398-4402.	4.0	58
13	Directed Evolution of a Bright Near-Infrared Fluorescent Rhodopsin Using a Synthetic Chromophore. <i>Cell Chemical Biology</i> , 2017, 24, 415-425.	5.2	55
14	Experimental and Computational Study of HXeYâ€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
15	Photochemical activity of Titanâ€™s low-altitude condensed haze. <i>Nature Communications</i> , 2013, 4, 1648.	12.8	44
16	Matrix isolation and ab initio study of the HXeCCHâ€CO ₂ complex. <i>Journal of Chemical Physics</i> , 2007, 127, 154313.	3.0	38
17	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
18	SURVIVAL DEPTH OF ORGANICS IN ICES UNDER LOW-ENERGY ELECTRON RADIATION (â€½2 keV). <i>Astrophysical Journal</i> , 2012, 747, 13.	4.5	35

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19	A study on stabilization of HHeF molecule upon complexation with Xe atoms. <i>Chemical Physics Letters</i> , 2004, 390, 256-260.	2.6	33
20	HY \cdot N ₂ and HXeY \cdot N ₂ complexes in solid xenon (Y=Cl and Br): Unexpected suppression of the complex formation for deposition at higher temperature. <i>Journal of Chemical Physics</i> , 2010, 133, 084309.	3.0	32
21	Matrix-Isolation and Ab Initio Study of the HKrCl \cdot HCl Complex. <i>Journal of Physical Chemistry A</i> , 2009, 113, 10687-10692.	2.5	31
22	Mixing of the Immiscible: Hydrocarbons in Water-Ice near the Ice Crystallization Temperature. <i>Journal of Physical Chemistry A</i> , 2015, 119, 2607-2613.	2.5	26
23	Matrix effect on vibrational frequencies: Experiments and simulations for HCl and HNgCl (Ng = Kr and Ar). <i>Journal of Chemical Physics</i> , 2010, 133, 084309.	3.0	21
24	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
25	Spectroscopic studies of non-volatile residue formed by photochemistry of solid C ₄ N ₂ : A model of condensed aerosol formation on Titan. <i>Icarus</i> , 2014, 234, 81-90.	2.5	18
26	Three-dimensional imaging for the quantification of spatial patterns in microbiota of the intestinal mucosa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2118483119.	7.1	18
27	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
28	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
29	Hindered rotation of HARF in solid argon: Infrared spectroscopy and a theoretical model. <i>Physical Review B</i> , 2008, 77, .	3.2	14
30	Quantum chemical study of the hydrogen-bonded HXeOH \cdot H ₂ O complex. <i>Journal of Molecular Structure</i> , 2006, 790, 31-39.	3.6	11
31	Environmental effects on noble-gas hydrides: HXeBr, HXeCCH, and HXeH in noble-gas and molecular matrices. <i>Journal of Chemical Physics</i> , 2013, 139, 204303.	3.0	11
32	Protons solvated in noble-gas matrices: Interaction with nitrogen. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 2457-2463.	2.8	10
33	Visible-light photoionization of aromatic molecules in water-ice: Organic chemistry across the universe with less energy. <i>Chemical Physics Letters</i> , 2021, 778, 138814.	2.6	6
34	Spatial Genomic Analysis: A Multiplexed Transcriptional Profiling Method that Reveals Subpopulations of Cells Within Intact Tissues. <i>Methods in Molecular Biology</i> , 2018, 2002, 151-163.	0.9	4
35	Interaction of bihalogen anions with nitrogen: Matrix-isolation study and first principle calculations of the (ClHCl) \cdot N ₂ and (BrHBr) \cdot N ₂ complexes. <i>Chemical Physics Letters</i> , 2005, 405, 448-452.	2.6	3