

# Lester S Andrews

## List of Publications by Year in descending order

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574  
papers

23,610  
citations

10351

72  
h-index

29081

104  
g-index

594  
all docs

594  
docs citations

594  
times ranked

7260  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectroscopic and Theoretical Investigations of Vibrational Frequencies in Binary Unsaturated Transition-Metal Carbonyl Cations, Neutrals, and Anions. <i>Chemical Reviews</i> , 2001, 101, 1931-1962.	23.0	427
2	Spectroscopic and Theoretical Studies of Transition Metal Oxides and Dioxygen Complexes. <i>Chemical Reviews</i> , 2009, 109, 6765-6808.	23.0	351
3	Reactions of boron atoms with molecular oxygen. Infrared spectra of BO, BO <sub>2</sub> , B <sub>2</sub> O <sub>2</sub> , B <sub>2</sub> O <sub>3</sub> , and BO <sup>+</sup> in solid argon. <i>Journal of Chemical Physics</i> , 1991, 95, 8697-8709.	1.2	347
4	Matrix infrared spectra and density functional calculations of transition metal hydrides and dihydrogen complexes. <i>Chemical Society Reviews</i> , 2004, 33, 123.	18.7	312
5	Infrared Spectra and Density Functional Theory Calculations on Transition Metal Nitrosyls. Vibrational Frequencies of Unsaturated Transition Metal Nitrosyls. <i>Chemical Reviews</i> , 2002, 102, 885-912.	23.0	296
6	Noble Gas-Actinide Compounds: Complexation of the CUO Molecule by Ar, Kr, and Xe Atoms in Noble Gas Matrices. <i>Science</i> , 2002, 295, 2242-2245.	6.0	224
7	Matrix Preparation and Spectroscopic and Theoretical Investigations of Simple Methylidene and Methylidyne Complexes of Group 4 <sup>+</sup> 6 Transition Metals. <i>Organometallics</i> , 2006, 25, 4040-4053.	1.1	204
8	Reactions of Pulsed-Laser Evaporated Boron Atoms with Hydrogen. Infrared Spectra of Boron Hydride Intermediate Species in Solid Argon. <i>Journal of the American Chemical Society</i> , 1994, 116, 4970-4976.	6.6	168
9	Infrared Spectrum, Structure, Vibrational Potential Function, and Bonding in the Lithium Superoxide Molecule LiO <sub>2</sub> . <i>Journal of Chemical Physics</i> , 1969, 50, 4288-4299.	1.2	157
10	Similarities and differences in the structure of 3 d-metal monocarbides and monoxides. <i>Theoretical Chemistry Accounts</i> , 2003, 109, 298-308.	0.5	157
11	Reactions of Laser Ablated Titanium, Zirconium, and Hafnium Atoms with Oxygen Molecules in Condensing Argon. <i>The Journal of Physical Chemistry</i> , 1995, 99, 6356-6366.	2.9	156
12	Reactions of Laser-Ablated Iron Atoms with Oxygen Molecules in Condensing Argon. Infrared Spectra and Density Functional Calculations of Iron Oxide Product Molecules. <i>The Journal of Physical Chemistry</i> , 1996, 100, 5261-5273.	2.9	152
13	Pulsed laser-assisted reactions of boron and nitrogen atoms in a condensing nitrogen stream. <i>The Journal of Physical Chemistry</i> , 1992, 96, 9177-9182.	2.9	148
14	Noble Gas Complexes with BeO: Infrared Spectra of NG-BeO (NG = Ar, Kr, Xe). <i>Journal of the American Chemical Society</i> , 1994, 116, 423-424.	6.6	146
15	Infrared Spectra of UO <sub>2</sub> , UO <sub>2</sub> <sup>+</sup> , and UO <sub>2</sub> in Solid Neon. <i>Journal of Physical Chemistry A</i> , 2000, 104, 5495-5502.	1.1	133
16	The Infrared Spectrum of Al <sub>2</sub> H <sub>6</sub> in Solid Hydrogen. <i>Science</i> , 2003, 299, 2049-2052.	6.0	130
17	Infrared Spectrum of the Trichloromethyl Radical in Solid Argon. <i>Journal of Chemical Physics</i> , 1968, 48, 972-979.	1.2	128
18	Mercury Is a Transition Metal: The First Experimental Evidence for HgF <sub>4</sub> . <i>Angewandte Chemie - International Edition</i> , 2007, 46, 8371-8375.	7.2	126

#	ARTICLE	IF	CITATIONS
19	Reaction of Laser-Ablated Uranium Atoms with CO: Infrared Spectra of the CUO, CUO-, OUCO, (1-2-C2)UO2, and U(CO)x (x = 1-6) Molecules in Solid Neon. Journal of the American Chemical Society, 1999, 121, 9712-9721.	6.6	125
20	Noble Gas-Actinide Complexes of the CUO Molecule with Multiple Ar, Kr, and Xe Atoms in Noble-Gas Matrices. Journal of the American Chemical Society, 2003, 125, 3126-3139.	6.6	124
21	Matrix Infrared Spectroscopic and ab Initio Studies of ZnH2, CdH2, and Related Metal Hydride Species. The Journal of Physical Chemistry, 1995, 99, 7925-7934.	2.9	118
22	Matrix Reactions of K and Rb Atoms with Oxygen Molecules. Journal of Chemical Physics, 1971, 54, 4935-4943.	1.2	117
23	Argon matrix infrared spectra and vibrational analysis of the hydroperoxyl and deuteroperoxyl free radicals. Journal of Chemical Physics, 1974, 60, 81-85.	1.2	117
24	Matrix infrared spectra of NUN formed by the insertion of uranium atoms into molecular nitrogen. Journal of Chemical Physics, 1993, 98, 6070-6074.	1.2	117
25	Infrared Spectra of Aluminum Hydrides in Solid Hydrogen: Al2H4 and Al2H6. Journal of the American Chemical Society, 2003, 125, 9218-9228.	6.6	117
26	Reactions of pulsed-laser evaporated uranium atoms with molecular oxygen: Infrared spectra of UO, UO2, UO3, UO2+, UO22+, and UO3+O2 in solid argon. Journal of Chemical Physics, 1993, 98, 3690-3696.	1.2	113
27	Experimental and Theoretical Evidence for the Formation of Several Uranium Hydride Molecules. Journal of the American Chemical Society, 1997, 119, 1682-1687.	6.6	110
28	On microwave discharge sources of new chemical species for matrix-isolation spectroscopy and the identification of charged species. Journal of Chemical Physics, 1976, 65, 1244-1249.	1.2	106
29	Matrix reactions of alkali metal atoms with ozone: Infrared spectra of the alkali metal ozonide molecules. Journal of Chemical Physics, 1973, 59, 1851-1862.	1.2	105
30	Reactions of Laser-Ablated Ag and Au Atoms with Carbon Monoxide: Matrix Infrared Spectra and Density Functional Calculations on Ag(CO)n (n= 2, 3), Au(CO)n (n= 1, 2) and M(CO)n+ (n= 1-4; M = Ag, Au). Journal of Physical Chemistry A, 2000, 104, 9156-9164.	1.1	104
31	FTIR spectra of ammonia clusters in noble gas matrices. Journal of Chemical Physics, 1987, 87, 5131-5140.	1.2	103
32	Reactions of pulsed-laser ablated aluminum atoms with hydrogen: infrared spectra of aluminum hydride (AlH, AlH2, AlH3, and Al2H2) species. The Journal of Physical Chemistry, 1993, 97, 10295-10300.	2.9	103
33	Infrared Spectrum of the Methyl Radical in Solid Argon. Journal of Chemical Physics, 1967, 47, 3637-3644.	1.2	102
34	Reactions of Laser-Ablated Iron Atoms with Oxygen Molecules: Matrix Infrared Spectra and Density Functional Calculations of OFeO, FeOO, and Fe(O2). Journal of the American Chemical Society, 1996, 118, 467-470.	6.6	101
35	Polyfluoride Anions, a Matrix-Isolation and Quantum-Chemical Investigation. Inorganic Chemistry, 2010, 49, 7156-7164.	1.9	101
36	Reactions of Laser-Ablated Nickel Atoms with Dioxygen. Infrared Spectra and Density Functional Calculations of Nickel Oxides NiO, ONiO, Ni2O2, and Ni2O3, Superoxide NiOO, Peroxide Ni(O2), and Higher Complexes in Solid Argon. Journal of Physical Chemistry A, 1997, 101, 3109-3118.	1.1	98

#	ARTICLE	IF	CITATIONS
37	Reactions of Laser-Ablated Ni, Pd, and Pt Atoms with Carbon Monoxide: Matrix Infrared Spectra and Density Functional Calculations on $M(\text{CO})_n$ ( $n = 1-4$ ), $M(\text{CO})_n^-$ ( $n = 1-3$ ), and $M(\text{CO})_n^+$ ( $n = 1-2$ ), ( $M = \text{Ni, Pd, Pt}$ )	1.1	14
38	Infrared Spectra of Group 14 Hydrides in Solid Hydrogen: Experimental Observation of $\text{PbH}_4$ , $\text{Pb}_2\text{H}_2$ , and $\text{Pb}_2\text{H}_4$ . <i>Journal of the American Chemical Society</i> , 2003, 125, 6581-6587.	6.6	98
39	Reactions of Laser-Ablated Vanadium Atoms with Dioxygen. Infrared Spectra of $\text{VO}$ , $\text{VO}_2$ , $\text{OOVO}_2$ , and $\text{V}_2\text{O}_2$ in Solid Argon. <i>Journal of Physical Chemistry A</i> , 1997, 101, 5090-5096.	1.1	97
40	Reactions of laser-ablated chromium atoms with dioxygen. Infrared spectra of $\text{CrO}$ , $\text{OCrO}$ , $\text{CrOO}$ , $\text{CrO}_3$ , $\text{Cr}(\text{OO})_2$ , $\text{Cr}_2\text{O}_2$ , $\text{Cr}_2\text{O}_3$ and $\text{Cr}_2\text{O}_4$ in solid argon. <i>Journal of Chemical Physics</i> , 1997, 107, 2798-2806.	1.2	95
41	FTIR spectra of hydrogen fluoride complexes in solid argon. <i>The Journal of Physical Chemistry</i> , 1984, 88, 2940-2949.	2.9	93
42	Matrix reactions of cesium atoms with oxygen molecules. Infrared spectrum and vibrational analysis of cesium superoxide ( $\text{Cs}+\text{O}_2^-$ ). Infrared observation of cesium peroxide ( $\text{Cs}+\text{O}_2\text{O}-\text{Cs}^+$ ) and cesium disuperoxide ( $\text{Cs}+\text{O}_4^-$ ). Theoretical structure of alkali metal oxides ( $\text{M}+\text{O}_4^-$ ). <i>The Journal of Physical Chemistry</i> , 1973, 77, 1065-1073.	2.9	91
43	Infrared Spectra and Structures of the Stable $\text{CuH}_2^-$ , $\text{AgH}_2^-$ , $\text{AuH}_2^-$ , and $\text{AuH}_4^-$ Anions and the $\text{AuH}_2$ Molecule. <i>Journal of the American Chemical Society</i> , 2003, 125, 11751-11760.	6.6	91
44	Raman Spectra of the Products of Na and K Atom Argon Matrix Reactions with $\text{O}_2$ Molecules. <i>Journal of Chemical Physics</i> , 1972, 57, 1327-1333.	1.2	89
45	Infrared spectra and structures of isotopically enriched sulfur ( $\text{S}_3$ and $\text{S}_4$ ) in solid argon. <i>The Journal of Physical Chemistry</i> , 1991, 95, 79-86.	2.9	88
46	Reactions of Laser-Ablated Niobium and Tantalum Atoms with Oxygen Molecules: Infrared Spectra of Niobium and Tantalum Oxide Molecules, Anions, and Cations. <i>Journal of Physical Chemistry A</i> , 1998, 102, 8251-8260.	1.1	87
47	Visible Spectra of Lithium in Inert Gas Matrices. <i>Journal of Chemical Physics</i> , 1967, 47, 2905-2910.	1.2	86
48	Raman and Infrared Spectra of $\text{LiO}_2$ in Oxygen Matrices. <i>Journal of Chemical Physics</i> , 1972, 56, 3398-3403.	1.2	86
49	Significant Interactions between Uranium and Noble-Gas Atoms: Coordination of the $\text{UO}_2^+$ Cation by Ne, Ar, Kr, and Xe Atoms. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 2554-2557.	7.2	86
50	Infrared Spectra of Magnesium Hydride Molecules, Complexes, and Solid Magnesium Dihydride. <i>Journal of Physical Chemistry A</i> , 2004, 108, 11511-11520.	1.1	84
51	Argon matrix Raman spectrum of $\text{LiO}_2$ . Bonding in the $\text{M}+\text{O}_2^+$ molecules and the ionic model. <i>Journal of Chemical Physics</i> , 1973, 58, 2258-2261.	1.2	83
52	Matrix photoionization and radiolysis of dichloromethane and dibromomethane. Infrared and ultraviolet absorption spectra and photolysis of $\text{CH}_2\text{Cl}_2^+$ and $\text{CH}_2\text{Br}_2^+$ . <i>Journal of the American Chemical Society</i> , 1979, 101, 9-15.	6.6	83
53	Infrared spectra of $\text{OC}^-\text{HX}$ hydrogen-bonded complexes in solid argon. <i>Journal of Chemical Physics</i> , 1983, 78, 6347-6352.	1.2	83
54	Simple $\text{Ni}^{1/2}\text{UF}_3$ and $\text{Pt}^{1/2}\text{UF}_3$ Molecules with Triple Bonds to Uranium. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5366-5370.	7.2	83

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55	Infrared spectra of the CO <sub>2</sub> <sup>-</sup> and C <sub>2</sub> O <sub>4</sub> <sup>-</sup> anions isolated in solid argon. Journal of Chemical Physics, 1999, 110, 2414-2422.	1.2	82
56	Infrared spectra and pseudopotential calculations for NUO <sup>+</sup> , NUO, and NThO in solid neon. Journal of Chemical Physics, 1999, 111, 11044-11049.	1.2	82
57	Infrared Spectra of M(OH) <sub>1,2,3</sub> (M = Mn, Fe, Co, Ni) Molecules in Solid Argon and the Character of First Row Transition Metal Hydroxide Bonding. Journal of Physical Chemistry A, 2006, 110, 10035-10045.	1.1	80
58	Formation of unprecedented actinidecarbon triple bonds in uranium methyldiyne molecules. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18919-18924.	3.3	80
59	Infrared Spectrum of Dichlorocarbene in Solid Argon. Journal of Chemical Physics, 1968, 48, 979-982.	1.2	79
60	Chromium Hydrides and Dihydrogen Complexes in Solid Neon, Argon, and Hydrogen: Matrix Infrared Spectra and Quantum Chemical Calculations. Journal of Physical Chemistry A, 2003, 107, 570-578.	1.1	79
61	Matrix reactions of alkali metal fluoride molecules with fluorine. Infrared and Raman spectra of the trifluoride ion in the M+F <sub>3</sub> <sup>-</sup> species. Journal of the American Chemical Society, 1976, 98, 1591-1593.	6.6	77
62	Agostic Interaction in the Methyldiene Metal Dihydride Complexes H <sub>2</sub> MCH <sub>2</sub> (M = Y, Zr, Nb, Mo, Ru, Th). Journal of Physical Chemistry A, 2004, 108, 10000-10000.	1.1	77
63	On the Electronic Structure of Molecular UO <sub>2</sub> in the Presence of Ar Atoms: Evidence for Direct U- <sup>+</sup> Ar Bonding. Journal of the American Chemical Society, 2004, 126, 3424-3425.	6.6	76
64	Reactions of beryllium atoms with hydrogen. Matrix infrared spectra of novel product molecules. Journal of the American Chemical Society, 1993, 115, 12111-12116.	6.6	75
65	Reactions of Laser-Ablated Manganese Atoms with Dioxygen. Infrared Spectra of MnO, OMnO, Mn(O <sub>2</sub> ), (MnO) <sub>2</sub> , and Higher Oxide Complexes in Solid Argon. Journal of Physical Chemistry A, 1997, 101, 8547-8553.	1.1	75
66	Pulsed laser evaporated boron atom reactions with acetylene. Infrared spectra and quantum chemical structure and frequency calculations for several novel organoborane BC <sub>2</sub> H <sub>2</sub> and HBC <sub>2</sub> molecules. The Journal of Physical Chemistry, 1993, 97, 5839-5847.	2.9	74
67	Reactions of Laser-Ablated Copper Atoms with Dioxygen. Infrared Spectra of the Copper Oxides CuO, OCuO, CuOCuO, and OCuOCuO and Superoxide CuOO in Solid Argon. Journal of Physical Chemistry A, 1997, 101, 4026-4034.	1.1	74
68	Infrared Spectrum of Methyl Lithium Monomer in Solid Argon. Journal of Chemical Physics, 1967, 47, 4834-4842.	1.2	73
69	Reactions of Laser-Ablated V, Cr, and Mn Atoms with Nitrogen Atoms and Molecules. Infrared Spectra and Density Functional Calculations on Metal Nitrides and Dinitrogen Complexes. Journal of Physical Chemistry A, 1997, 101, 8417-8427.	1.1	73
70	Reactions of Laser-Ablated Cobalt Atoms with O <sub>2</sub> . Infrared Spectra of Cobalt Oxides in Solid Argon. Journal of Physical Chemistry A, 1997, 101, 8793-8802.	1.1	73
71	Reactions of laser-ablated iron atoms with carbon monoxide: Infrared spectra and density functional calculations of Fe <sub>x</sub> CO, Fe(CO) <sub>x</sub> , and Fe(CO) <sub>x</sub> <sup>-</sup> (x=1,2,3) in solid argon. Journal of Chemical Physics, 1998, 109, 10893-10904.	1.2	73
72	Infrared spectra and density functional calculations of Cu(CO) <sub>1</sub> <sup>+</sup> , Cu(CO) <sub>1</sub> <sup>3</sup> , and Cu(CO) <sub>1</sub> <sup>3a</sup> in solid neon. Journal of Chemical Physics, 1999, 111, 4548-4557.	1.2	73

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73	Reactions of Laser-Ablated Co, Rh, and Ir with CO: $\hat{A}$ Infrared Spectra and Density Functional Calculations of the Metal Carbonyl Molecules, Cations and Anions in Solid Neon. <i>Journal of Physical Chemistry A</i> , 1999, 103, 7773-7784.	1.1	73
74	Reactions of Laser-Ablated Aluminum Atoms with Nitrogen Atoms and Molecules. Infrared Spectra and Density Functional Calculations for the AlN <sub>2</sub> , Al <sub>2</sub> N, Al <sub>2</sub> N <sub>2</sub> , AlN <sub>3</sub> , and Al <sub>3</sub> N Molecules. <i>Journal of Physical Chemistry A</i> , 2000, 104, 1656-1661.	1.1	73
75	Infrared Spectrum and Bonding in Uranium Methylidene Dihydride, CH <sub>2</sub> UH <sub>2</sub> . <i>Inorganic Chemistry</i> , 2007, 46, 4917-4925.	1.9	73
76	Gold Hydrides AuH and (H <sub>2</sub> )AuH and the AuH <sub>3</sub> Transition State Stabilized in (H <sub>2</sub> )AuH <sub>3</sub> : $\hat{A}$ Infrared Spectra and DFT Calculations. <i>Journal of the American Chemical Society</i> , 2001, 123, 12899-12900.	6.6	72
77	Infrared and Raman spectra of the M <sup>+</sup> F <sub>3</sub> <sup>-</sup> ion pairs and their mixed chlorine-fluorine counterparts in solid argon. <i>Inorganic Chemistry</i> , 1977, 16, 2024-2028.	1.9	71
78	Infrared spectra of the CO <sub>2</sub> ... $\hat{a}$ ... $\hat{a}$ ...HF and N <sub>2</sub> O... $\hat{a}$ ... $\hat{a}$ ...HF complexes in solid argon at 12 K. <i>Journal of Chemical Physics</i> , 1982, 76, 2875-2880.	1.2	71
79	Infrared Spectra of the Novel Si <sub>2</sub> H <sub>2</sub> and Si <sub>2</sub> H <sub>4</sub> Species and the SiH <sub>1,2,3</sub> Intermediates in Solid Neon, Argon, and Deuterium. <i>Journal of Physical Chemistry A</i> , 2002, 106, 7696-7702.	1.1	71
80	The Reaction of Zinc, Cadmium, and Mercury Atoms with Methane: Infrared Spectra of the Matrix-Isolated Methylmetal Hydrides. <i>Journal of the American Chemical Society</i> , 1995, 117, 8180-8187.	6.6	70
81	Infrared Spectra and Density Functional Calculations for OScCO, Sc-( $\hat{i}$ -2-OC)O, OSc-( $\hat{i}$ -2-CO), and Three OScCO+Cation Isomers in Solid Argon. <i>Journal of the American Chemical Society</i> , 1998, 120, 13230-13239.	6.6	70
82	Matrix Infrared Spectroscopy and Quantum $\hat{e}$ Chemical Calculations for the Coinage $\hat{e}$ Metal Fluorides: Comparisons of Ar $\hat{i}$ $\hat{x}$ <sub>2</sub> AuF, Ne $\hat{i}$ $\hat{x}$ <sub>2</sub> AuF, and Molecules MF <sub>2</sub> and MF <sub>3</sub> . <i>Chemistry - A European Journal</i> , 2013, 19, 1397-1409.	1.7	70
83	Reactions of Pulsed-Laser-Evaporated Al with C and C <sub>2</sub> H <sub>2</sub> . Infrared Spectra and CAS-SCF Calculations for AlC, Al <sub>2</sub> C, Al <sub>2</sub> C <sub>2</sub> , and AlC <sub>2</sub> H. <i>Journal of the American Chemical Society</i> , 1994, 116, 3513-3518.	6.6	69
84	Characterization of the Reaction Products of Laser-Ablated Early Lanthanide Metal Atoms with Molecular Oxygen. Infrared Spectra of LnO, LnO <sup>+</sup> , LnO <sup>-</sup> , LnO <sub>2</sub> , LnO <sub>2</sub> <sup>+</sup> , LnO <sub>2</sub> <sup>-</sup> , LnO <sub>3</sub> <sup>-</sup> , and (LnO) <sub>2</sub> in Solid Argon. <i>Journal of Physical Chemistry A</i> , 1999, 103, 3171-3183.	1.1	69
85	Reactions of Laser Ablated Ti Atoms with Hydrogen during Condensation in Excess Argon. Infrared Spectra of the TiH, TiH <sub>2</sub> , TiH <sub>3</sub> , and TiH <sub>4</sub> Molecules. <i>Journal of the American Chemical Society</i> , 1994, 116, 8322-8327.	6.6	68
86	The C $\hat{a}$ <sup>-</sup> H Activation of Methane by Laser-Ablated Zirconium Atoms: $\hat{A}$ CH <sub>2</sub> ZrH <sub>2</sub> , the Simplest Carbene Hydride Complex, Agostic Bonding, and (CH <sub>3</sub> ) <sub>2</sub> ZrH <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2005, 127, 465-473.	6.6	68
87	Infrared Spectrum and Structure of CH <sub>2</sub> ThH <sub>2</sub> . <i>Journal of Physical Chemistry A</i> , 2005, 109, 6796-6798.	1.1	68
88	FTIR spectra of water $\hat{e}$ hydrogen fluoride complexes in solid argon. Evidence for inversion doubling in the HF librational modes of H <sub>2</sub> O $\hat{e}$ HF. <i>Journal of Chemical Physics</i> , 1983, 79, 3670-3677.	1.2	67
89	Reactions of laser-ablated iron atoms and cations with carbon monoxide: Infrared spectra of FeCO <sup>+</sup> , Fe(CO) <sub>2</sub> <sup>+</sup> , Fe(CO) <sub>x</sub> , and Fe(CO) <sub>x</sub> $\hat{a}$ <sup>-</sup> (x=1 $\hat{e}$ 4) in solid neon. <i>Journal of Chemical Physics</i> , 1999, 110, 10370-10379.	1.2	67
90	Infrared Spectra of the Novel Sn <sub>2</sub> H <sub>2</sub> Species and the Reactive SnH <sub>1,2,3</sub> and PbH <sub>1,2,3</sub> Intermediates in Solid Neon, Deuterium, and Argon. <i>Journal of Physical Chemistry A</i> , 2002, 106, 6302-6308.	1.1	66

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91	FTIR observation of N-H stretching fundamentals in hydrogen-bonded complexes in solid argon. Journal of Chemical Physics, 1985, 83, 4983-4989.	1.2	64
92	Infrared spectrum of the lithium acetylene molecule in solid argon. Journal of the American Chemical Society, 1985, 107, 563-568.	6.6	64
93	Infrared spectra and density functional calculations of the CrO <sub>2</sub> <sup>-</sup> , MoO <sub>2</sub> <sup>-</sup> , and WO <sub>2</sub> <sup>-</sup> molecular anions in solid neon. Journal of Chemical Physics, 1999, 111, 4230-4238.	1.2	64
94	Infrared Spectra of Zn and Cd Hydride Molecules and Solids. Journal of Physical Chemistry A, 2004, 108, 11006-11013.	1.1	64
95	Resonance Raman spectrum and vibrational analysis of the ozonide ion in the argon matrix-isolated M+O <sub>3</sub> <sup>-</sup> species. Journal of Chemical Physics, 1973, 59, 1863-1871.	1.2	63
96	Reactions of Laser-Ablated U and Th with CO <sub>2</sub> : Neon Matrix Infrared Spectra and Density Functional Calculations of OUCO, OThCO, and Other Products. Journal of the American Chemical Society, 2000, 122, 11440-11449.	6.6	63
97	Reactions of Laser-Ablated Ga, In, and Tl Atoms with Nitrogen Atoms and Molecules. Infrared Spectra and Density Functional Calculations of GaN, NGaN, NInN, and the M <sub>3</sub> N and MN <sub>3</sub> Molecules. Journal of Physical Chemistry A, 2000, 104, 1648-1655.	1.1	63
98	Gold Is Noble but Gold Hydride Anions Are Stable. Angewandte Chemie - International Edition, 2003, 42, 5201-5206.	7.2	63
99	Matrix photodissociation and photoionization of carbon tetrahalides with noble gas resonance radiation. Journal of Chemical Physics, 1977, 67, 1091.	1.2	62
100	Noble Gas-Actinide Compounds: Evidence for the Formation of Distinct CUO(Ar) <sub>4-n</sub> (Xe) <sub>n</sub> and CUO(Ar) <sub>4-n</sub> (Kr) <sub>n</sub> (n = 1, 2, 3, 4) Complexes. Journal of the American Chemical Society, 2002, 124, 9016-9017.	6.6	62
101	Photoreversible Hydrogen Migration System in a Solid Argon Matrix Formed by the Reaction of Methyl Fluoride with Laser-Ablated Titanium Atoms. Journal of Physical Chemistry A, 2004, 108, 6294-6301.	1.1	62
102	Reactions of laser ablated Be atoms with O <sub>2</sub> : Infrared spectra of beryllium oxides in solid argon. Journal of Chemical Physics, 1994, 100, 8689-8699.	1.2	61
103	Reactions of Alkali-Metal Atoms with Carbon Tetrabromide. Infrared Spectra and Bonding in the Tribromomethyl Radical and Dibromocarbene in Solid Argon. Journal of Chemical Physics, 1968, 49, 896-902.	1.2	60
104	Infrared spectra of the hydrogen-bonded pi complex C <sub>2</sub> H <sub>4</sub> -HF in solid argon. Journal of Chemical Physics, 1982, 76, 5767-5773.	1.2	60
105	Reactions of Laser-Ablated Boron Atoms with Methanol. Infrared Spectra and ab Initio Calculations of CH <sub>3</sub> BO, CH <sub>2</sub> BOH, and CH <sub>2</sub> BO in Solid Argon. Journal of Physical Chemistry A, 1997, 101, 1482-1487.	1.1	60
106	Observed and Calculated Infrared Spectra of Pd(H <sub>2</sub> ) <sub>1,2,3</sub> Complexes and Palladium Hydrides in Solid Argon and Neon. Journal of Physical Chemistry A, 2001, 105, 3052-3063.	1.1	60
107	Infrared Spectra of the Novel Ge <sub>2</sub> H <sub>2</sub> and Ge <sub>2</sub> H <sub>4</sub> Species and the Reactive GeH <sub>1,2,3</sub> Intermediates in Solid Neon, Deuterium and Argon. Journal of Physical Chemistry A, 2002, 106, 5809-5816.	1.1	60
108	Matrix Infrared Spectrum and Bonding in the Monochloromethyl Radical. Journal of Chemical Physics, 1970, 53, 2956-2966.	1.2	59



#	ARTICLE	IF	CITATIONS
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