Lester S Andrews

List of Publications by Year
in descending order

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	(Noble Gas) _n â€NC ⁺ Molecular Ions in Noble Gas Matrices: Matrix Infrared Spectra and Electronic Structure Calculations. Chemistry - A European Journal, 2022, 28, e202103142.	1.7	2
2	Matrix Infrared Spectroscopic and Theoretical Investigations of MÂ·Â·Â·NCCN, MÂ·Â·Â·CNCN, MÂ·Â·Â·C(N)CN, NCMCN, CNMNC, CNMCN, and [MÂ·Â·Â·NCCN]+ Produced in the Reactions of Group 11 Metal Atoms with Cyanogen. Inorganic Chemistry, 2021, 60, 6421-6432.	1.9	2
3	Matrix Infrared Spectroscopic Studies of B-NCCN, B-Î·2-(NC)-CN, NCBCN, CNBCN, CNBNC, and High-Order Products Produced in Reactions of Boron Atoms with Cyanogen. Journal of Physical Chemistry A, 2021, 125, 6189-6197.	1.1	1
4	Cyanides, Isocyanides, and Hydrides of Zn, Cd and Hg from Metal Atom and HCN Reactions: Matrix Infrared Spectra and Electronic Structure Calculations. ChemPhysChem, 2021, 22, 1914-1934.	1.0	4
5	Cyanides and Isocyanides of Zinc, Cadmium and Mercury: Matrix Infrared Spectra and Electronic Structure Calculations for the Linear MNC, NCMCN, CNMNC, NCMMCN, and CNMMNC Molecules. ChemPhysChem, 2021, 22, 204-220.	1.0	3
6	Mâ†NCCH₃, M-Î·²-(NC)â€“CH₃, and CNâ€“Mâ€“CH₃ Prepared by Reactions of Ce, Sm, Eu, and Lu Atoms with Acetonitrile: Matrix Infrared Spectra and Theoretical Calculations. Inorganic Chemistry, 2021, 60, 17649-17656.	1.9	2
7	Formation of Short Znâ^'Zn Bonds Stabilized by Simple Cyanide and Isocyanide Ligands. Angewandte Chemie - International Edition, 2020, 59, 2496-2504.	7.2	9
8	Formation of Short Znâ^'Zn Bonds Stabilized by Simple Cyanide and Isocyanide Ligands. Angewandte Chemie, 2020, 132, 2517-2525.	1.6	1
9	Matrix Infrared Spectroscopic and Theoretical Investigations of X2CXÂ·Â·Â·MX and CX3â€“MX Provided in Reactions of Ag and Au with Tetrahalomethanes. Inorganic Chemistry, 2020, 59, 15438-15446.	1.9	1
10	End-On Cyanogen Complexes of Iridium, Palladium, and Platinum. Inorganic Chemistry, 2020, 59, 6489-6495.	1.9	6
11	Mercury Cyanides and Isocyanides: NCHgCN and CNHgNC as well as NCHgHgCN and CNHgHgNC: Simple Molecules with Short, Strong Hgâ^'Hg Bonds. Angewandte Chemie, 2019, 131, 12000-12004.	1.6	5
12	Infrared Spectroscopic and Theoretical Studies of the 3d Transition Metal Oxyfluoride Molecules. Inorganic Chemistry, 2019, 58, 9796-9810.	1.9	6
13	Matrix Infrared Spectroscopic and Theoretical Studies for Products Provided in Reactions of Sn with Ethane and Halomethanes. Journal of Physical Chemistry A, 2019, 123, 6259-6268.	1.1	0
14	Infrared Spectra of CH₃CNâ†'M, Mâ^'Î·²-(NC)â€“CH₃, CH₃â€“MNC Prepared by Reactions of Laser-Ablated Fe, Ru, and Pt Atoms with Acetonitrile in Excess Argon. Inorganic Chemistry, 2019, 58, 16194-16204.	1.9	6
15	Formation of Cerium and Neodymium Isocyanides in the Reactions of Cyanogen with Ce and Nd Atoms in Argon Matrices. Journal of Physical Chemistry A, 2019, 123, 8208-8219.	1.1	3
16	Boronâ€“Transition-Metal Triple-Bond FBâ‰¡MF₂ Complexes. Inorganic Chemistry, 2019, 58, 13418-13425.	1.9	11
17	Mercury Cyanides and Isocyanides: NCHgCN and CNHgNC as well as NCHgHgCN and CNHgHgNC: Simple Molecules with Short, Strong Hgâ^'Hg Bonds. Angewandte Chemie - International Edition, 2019, 58, 11874-11878.	7.2	11
18	Matrix Infrared Spectra and Electronic Structure Calculations of Linear Alkaline Earth Metal Di-isocyanides CNMNC, Ionic (NC)M(NC) Bowties, and Ionic (MNC)₂ Rings. Journal of Physical Chemistry A, 2019, 123, 3743-3760.	1.1	11

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19	Matrix Infrared Spectra, Photochemistry and Density Functional Calculations of Cl^{â€“}â€“HCCl₂, ClHCl^{â€“}, Clâ€“ClCCl, and Cl^{â€“}â€“HCHCl Produced from CHCl₃ and CH₂Cl₂ Exposed to Irradiation from Laser Ablation. Journal of Physical Chemistry A, 2019, 123, 1051-1061.	1.1	4
20	Infrared Spectra of the HAnX and H₂AnX₂ Molecules (An=Th and U, X=Cl and) Tj ETQq0 0 0 rgBT /Overlock 10 Journal, 2019, 25, 1795-1805.	1.7	3
21	Tungsten Hydride Phosphorus- and Arsenic-Bearing Molecules with Double and Triple Wâ€“P and Wâ€“As Bonds. Inorganic Chemistry, 2018, 57, 5320-5332.	1.9	0
22	Laser-Ablated U Atom Reactions with (CN)₂ to Form UNC, U(NC)₂, and U(NC)₄: Matrix Infrared Spectra and Quantum Chemical Calculations. Journal of Physical Chemistry A, 2018, 122, 516-528.	1.1	12
23	Matrix-Infrared Spectra and Structures of HMâ€“SiH₃ (M = Ge, Sn, Pb, Sb, Bi, Te Atoms). Journal of Physical Chemistry A, 2018, 122, 81-88.	1.1	7
24	Oxygen radical character in group 11 oxygen fluorides. Nature Communications, 2018, 9, 1267.	5.8	11
25	W. Lester S. Andrews Curriculum Vitae. Journal of Physical Chemistry A, 2018, 122, 2831-2831.	1.1	0
26	Publications of W. Lester S. Andrews. Journal of Physical Chemistry A, 2018, 122, 2832-2848.	1.1	0
27	Matrix Infrared Spectroscopic and Theoretical Studies for the Products of Lead Atom Reactions with Ethane and Halomethanes. Journal of Physical Chemistry A, 2018, 122, 8911-8922.	1.1	3
28	OMS, OM(Î·2-SO), and OM(Î·2-SO)(Î·2-O2S) Molecules (M = Ce, Th) with Chiral Structure: Matrix Infrared Spectra and Theoretical Calculations. Journal of Physical Chemistry A, 2018, 122, 5391-5400.	1.1	3
29	Reactions of Laser-Ablated Aluminum Atoms with Cyanogen: Matrix Infrared Spectra and Electronic Structure Calculations for Aluminum Isocyanides Al(NC)_{1,2,3} and Their Novel Dimers. Journal of Physical Chemistry A, 2018, 122, 5342-5353.	1.1	10
30	Assignment of Raman spectra for trifluoride anions in solid argon. Physical Chemistry Chemical Physics, 2018, 20, 23378-23385.	1.3	8
31	Infrared Spectroscopic and Theoretical Studies of Group 3 Metal Isocyanide Molecules. Journal of Physical Chemistry A, 2018, 122, 7099-7106.	1.1	14
32	Thorium and Uranium Hydride Phosphorus and Arsenic Bearing Molecules with Single and Double Actinide-Pnictogen and Bridged Agostic Hydrogen Bonds. Inorganic Chemistry, 2017, 56, 2949-2957.	1.9	11
33	Properties of Lanthanide Hydroxide Molecules Produced in Reactions of Lanthanide Atoms with H₂O₂ and H₂ + O₂ Mixtures: Roles of the +I, +II, +III, and +IV Oxidation States. Journal of Physical Chemistry A, 2017, 121, 1779-1796.	1.1	11
34	Observation and Characterization of CH3CH2â€“MH, (CH2)2â€“MH2, and CH3â€“Câ‰¡MH3 Prepared in Reactions of Ethane with Laser-Ablated Group 6 Metal Atoms. Organometallics, 2017, 36, 1479-1487.	1.1	7
35	Formation and Characterization of Homoleptic Thorium Isocyanide Complexes. Inorganic Chemistry, 2017, 56, 5060-5068.	1.9	20
36	Double and Triple Siâ€“Hâ€“M Bridge Bonds: Matrix Infrared Spectra and Theoretical Calculations for Reaction Products of Silane with Ti, Zr, and Hf Atoms. Journal of Physical Chemistry A, 2017, 121, 3898-3908.	1.1	3

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37	Matrix preparation and spectroscopic and theoretical investigation of small high oxidation-state complexes of groups 3â€“12, 14, lanthanide and actinide metal atoms: Carbon-metal single, double and triple bonds. Coordination Chemistry Reviews, 2017, 335, 76-102.	9.5	37
38	Matrix Infrared Spectra of Insertion and Metallacyclopropane Complexes [CH₃CH₂â€“MH and (CH₂)₂â€“MH₂] Prepared in Reactions of Laser-Ablated Group 3 Metal Atoms with Ethane. Journal of Physical Chemistry A, 2017, 121, 8583-8595.	1.1	1
39	Infrared Spectroscopic and Theoretical Studies on the OMF₂ and OMF (M = Cr, Mo, W) Molecules in Solid Argon. Journal of Physical Chemistry A, 2017, 121, 7603-7612.	1.1	8
40	Observation and Characterization of CH3CH2â€“MH, (CH2)2â€“MH2, CH2â•CHâ€“MH3, and CH3â€“Câ‰¡MH3â€“ Produced by Reactions of Group 5 Metal Atoms with Ethane. Journal of Physical Chemistry A, 2017, 121, 6766-6777.	1.1	2
41	Infrared Spectroscopic and Electronic Structure Investigations of Beryllium Halide Molecules, Cations, and Anions in Noble Gas Matrices. Journal of Physical Chemistry A, 2017, 121, 8843-8855.	1.1	8
42	Matrix Infrared Spectra of Manganese and Iron Isocyanide Complexes. Journal of Physical Chemistry A, 2017, 121, 8835-8842.	1.1	5
43	Infrared Spectra and Structures of <scp>SiH₂</scp>â€“(<scp>CH₂</scp>)₂ and <scp>CH₂</scp>ï£¾<scp>CH</scp>â^’<scp>SiH₃</scp> Intermediates Prepared in Reactions of Laserâ€ablated Silicon Atoms with Ethane. Bulletin of the Korean Chemical Society, 2016, 37, 415-417.	1.0	5
44	Matrix Infrared Spectra and Quantum Chemical Calculations of Ti, Zr, and Hf Dihydride Phosphinidene and Arsinidene Molecules. Inorganic Chemistry, 2016, 55, 8786-8793.	1.9	26
45	Infrared Spectra and DFT CalculaÂtions of Planar and Bridged MethylÂidene Intermediates in Reactions of Laser-Ablated Yttrium and Lanthanum Atoms with Di-, Tri-, and Tetrahalomethanes. European Journal of Inorganic Chemistry, 2016, 2016, 380-392.	1.0	9
46	Detection and Electronic Structure of Naked Actinide Complexes: Rhombic-Ring (AnN)2 Molecules Stabilized by Delocalized Ï€-Bonding. Journal of the American Chemical Society, 2016, 138, 893-905.	6.6	20
47	Properties of Cerium Hydroxides from Matrix Infrared Spectra and Electronic Structure Calculations. Inorganic Chemistry, 2016, 55, 1702-1714.	1.9	24
48	Infrared Spectra and Density Functional Calculations for Singlet CH₂â•SiX₂ and Triplet HCâ€“SiX₃ and XCâ€“SiX₃ Intermediates in Reactions of Laser-Ablated Silicon Atoms with Di-, Tri-, and Tetrahalomethanes. Inorganic Chemistry, 2016, 55, 2819-2829.	1.9	11
49	Structures and Properties of the Products of the Reaction of Lanthanide Atoms with H₂O: Dominance of the +II Oxidation State. Journal of Physical Chemistry A, 2016, 120, 793-804.	1.1	15
50	A Matrix Isolation and Computational Study of Molecular Palladium Fluorides: Does PdF6 Exist?. Inorganic Chemistry, 2016, 55, 1108-1123.	1.9	10
51	Matrix Infrared Spectra and Density Functional Calculations of <scp>CH₂Clâ€“Cl</scp> and <scp>CH₂Brâ€“Br</scp> Produced by Laserâ€ablated Metal Plume Irradiation. Bulletin of the Korean Chemical Society, 2015, 36, 1580-1585.	1.0	1
52	Reactions of Laserâ€Ablated U Atoms with HCN: Infrared Spectra in Solid Argon and Quantum Chemical Calculations for HUNC. European Journal of Inorganic Chemistry, 2015, 2015, 2974-2981.	1.0	10
53	IR Spectra and DFT Calculations of ÂMâ€“Î·²â€(NC)â€“CH₃, CH₃â€“MNC, and CH₂=M(H)NC Prepared by Reactions of Laserâ€Ablated Hf and Ti Atoms with AcetoÂnitrile. European Journal of Inorganic Chemistry, 2015, 2015, 4379-4387.	1.0	10
54	Fluorreiche Fluoride â€“ neue Erkenntnisse Ã¼ber die Chemie von Polyfluoridanionen. Angewandte Chemie, 2015, 127, 8397-8401.	1.6	26

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55	Fluorineâ€Rich Fluorides: New Insights into the Chemistry of Polyfluoride Anions. Angewandte Chemie - International Edition, 2015, 54, 8279-8283.	7.2	47
56	Matrix Infrared Spectroscopic and Quantum Chemical Investigations of the Group 5 Transition Metal Atom and CX₄ Molecule (X = H, F, and Cl) Reaction Products. Journal of Physical Chemistry A, 2015, 119, 12742-12755.	1.1	8
57	Methane Activation by Laser-Ablated Th Atoms: Matrix Infrared Spectra and Theoretical Investigations of CH₃â€"Thâ€"H and CH₂â•ThH₂. Journal of Physical Chemistry A, 2015, 119, 2289-2297.	1.1	8
58	Reactions of Laser-Ablated U Atoms with HF: Infrared Spectra and Quantum Chemical Calculations of HUF, UH, and UF in Noble Gas Solids. Journal of Physical Chemistry A, 2015, 119, 2253-2261.	1.1	10
59	Investigation of thorium hydride fluorides by matrix-isolation spectroscopy. Journal of Fluorine Chemistry, 2015, 174, 2-7.	0.9	8
60	Infrared Spectra of Planar and Agostic-Like Bridged Scandium Methylidene Complexes Prepared in Reactions of Laser-Ablated Sc Atoms with Di-, Tri-, and Tetrahalomethanes. Organometallics, 2015, 34, 3390-3399.	1.1	13
61	Infrared spectra of M-Î·2-C2H2 and HMCCH produced in reactions of laser-ablated Fe and Os atoms with acetylene. Journal of Molecular Spectroscopy, 2015, 310, 84-91.	0.4	7
62	Gas Phase Properties of MX₂ and MX₄ (X = F, Cl) for M = Group 4, Group 14, Cerium, and Thorium. Journal of Physical Chemistry A, 2015, 119, 5790-5803.	1.1	43
63	Reaction of Laser-Ablated Uranium and Thorium Atoms with H₂Se: A Rare Example of Selenium Multiple Bonding. Inorganic Chemistry, 2015, 54, 9761-9769.	1.9	16
64	Reactions of laser-ablated U atoms with (CN)2: infrared spectra and electronic structure calculations of UNC, U(NC)2, and U(NC)4 in solid argon. Chemical Communications, 2015, 51, 3899-3902.	2.2	26
65	Actinideâ€"Silicon Multiradical Bonding: Infrared Spectra and Electronic Structures of the Si(Î¼-X)AnF₃ (An = Th, U; X = H, F) Molecules. Journal of the American Chemical Society, 2014, 136, 1427-1437.	6.6	40
66	Reactions of Lanthanide Atoms with Oxygen Difluoride and the Role of the Ln Oxidation State. Inorganic Chemistry, 2014, 53, 446-456.	1.9	25
67	Spectroscopic observation of photo-induced metastable linkage isomers of coinage metal (Cu, Ag, Au) sulfur dioxide complexes. Physical Chemistry Chemical Physics, 2014, 16, 2607.	1.3	14
68	Properties of ThF_x from Infrared Spectra in Solid Argon and Neon with Supporting Electronic Structure and Thermochemical Calculations. Journal of Physical Chemistry A, 2014, 118, 2107-2119.	1.1	17
69	Infrared Spectra of CX₃â€"AuCl and CX₂â€"AuCl₂ Generated in Reactions of Laser-Ablated Gold Atoms with Chlorofluoromethanes and Carbon Tetrachloride. Organometallics, 2014, 33, 4315-4322.	1.1	10
70	Infrared Spectra and Electronic Structure Calculations for NN Complexes with U, UN, and NUN in Solid Argon, Neon, and Nitrogen. Journal of Physical Chemistry A, 2014, 118, 5289-5303.	1.1	25
71	Matrix Infrared Spectra and Density Functional Calculations for New iso-Halomethanes: CHCl₂â€"Cl, CHFClâ€"Cl, CFCl₂â€"Cl, CHBr₂â€"Br, and CBr₃â€"Br in Solid Argon. Journal of Physical Chemistry A, 2013, 117, 6525-6535.	1.1	14
72	Spontaneous sulfur dioxide activation by Group V metal (V, Nb, Ta) atoms in excess argon at cryogenic temperatures. Physical Chemistry Chemical Physics, 2013, 15, 9823.	1.3	14

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73	Formation and characterization of HUF and DUF in solid argon. Chemical Communications, 2013, 49, 3863.	2.2	9
74	Matrix Infrared Spectroscopy and Quantumâ€Chemical Calculations for the Coinageâ€Metal Fluorides: Comparisons of Arï£¿AuF, Neï£¿AuF, and Molecules MF₂ and MF₃. Chemistry - A European Journal, 2013, 19, 1397-1409.	1.7	70
75	Infrared Spectra of CH₃â€“MX and CH₂Xâ€“MH Prepared in Reactions of Laser-Ablated Gold, Platinum, Palladium, and Nickel Atoms with CH₃Cl and CH₃Br. Organometallics, 2013, 32, 2753-2759.	1.1	19
76	Infrared Spectra of Manganese Insertion, Vinyl, and Cyclic Complexes Prepared in Reactions of Laser-Ablated Mn Atoms with Methane, Ethane, Ethyl Chloride, and 1,2-Dichloroethane. Organometallics, 2013, 32, 3458-3468.	1.1	10
77	Thorium Fluorides ThF, ThF₂, ThF₃, ThF₄, ThF₃(F₂), and ThF₅^{â€“} Characterized by Infrared Spectra in Solid Argon and Electronic Structure and Vibrational Frequency Calculations. Inorganic Chemistry, 2013, 52, 8228-8233.	1.9	20
78	Infrared Spectra of H2ThS and H2US in Noble Gas Matrixes: Enhanced H-An-S Covalent Bonding. Inorganic Chemistry, 2013, 52, 10275-10285.	1.9	25
79	Infrared Spectra and Electronic Structure Calculations for the NUN(NN)_{1â€“5} and NU(NN)_{1â€“6} Complexes in Solid Argon. Inorganic Chemistry, 2013, 52, 9989-9993.	1.9	21
80	Reactions of Group 3 Metals with OF₂: Infrared Spectroscopic and Theoretical Investigations of the Group 3 Oxydifluoride OMF₂ and Oxyfluoride OMF Molecules. Journal of Physical Chemistry A, 2012, 116, 10115-10121.	1.1	10
81	Infrared spectroscopic and theoretical studies of the OTiF2, OZrF2 and OHfF2 molecules with terminal oxo ligands. Dalton Transactions, 2012, 41, 11706.	1.6	24
82	Infrared Spectroscopic and Theoretical Investigations of the OUF₂ and OThF₂ Molecules with Triple Oxo Bond Character. Inorganic Chemistry, 2012, 51, 6983-6991.	1.9	31
83	Infrared Spectra of CH₃â€“MH through Methane Activation by Laser-Ablated Sn, Pb, Sb, and Bi Atoms. Journal of Physical Chemistry A, 2012, 116, 8500-8506.	1.1	19
84	Infrared Spectra of the Î·²-M(NC)-CH₃, CH₃-MNC, and CH₂â•M(H)NC Complexes Prepared by Reactions of Thorium and Uranium Atoms with Acetonitrile. Organometallics, 2012, 31, 535-544.	1.1	27
85	OMS, OM(Î·²-SO), and OM(Î·²-SO)(Î·²-SO₂) Molecules (M =) Tj ETQq1 1 0.784314 7415-7424.	1.9	25
86	Infrared Spectra of the Complexes Osâ†NCCH₃, Reâ†NCCH₃, CH₃â€“ReNC, CH₂â•Re(H)NC, and CHâ‰¡Re(H)₂NC and their Mn Counterparts Prepared by Reactions of Laser-Ablated Os, Re, and Mn Atoms with Acetonitrile in Excess Argon. Organometallics, 2012, 31, 6095-6105.	1.1	17
87	Infrared Spectra of M-Î·²-C₂H₂ and HM-Câ‰¡CH Produced in Reactions of Laser-Ablated Group 6 Metal Atoms with Acetylene. Journal of Physical Chemistry A, 2012, 116, 11880-11887.	1.1	16
88	Infrared Spectra of M-Î·²-C₂H₂, HMâ€“Câ‰¡CH, and HMâ€“Câ‰¡CH^{â€“} Prepared in Reactions of Laser-Ablated Group 3 Metal Atoms with Acetylene. Journal of Physical Chemistry A, 2012, 116, 10917-10926.	1.1	25
89	Methane to Methanol Conversion Induced by Thorium Oxide through the CH₃Th(O)H Intermediate in Solid Argon. Inorganic Chemistry, 2012, 51, 11055-11060.	1.9	11
90	Infrared spectra and density functional calculations of the Mâ†NCCCH3, Î·2â€“M(NC)â€“CH3, CH3â€“MNC, CH2M(H)NC, and CHM(H)2NC complexes produced by reactions of Group 6 metal atoms with acetonitrile. Journal of Organometallic Chemistry, 2012, 703, 25-33.	0.8	14

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91	Investigation of Gold Fluorides and Noble Gas Complexes by Matrixâ€Isolation Spectroscopy and Quantumâ€Chemical Calculations. Angewandte Chemie - International Edition, 2012, 51, 10628-10632.	7.2	57
92	Formation of Metal Oxyfluorides from Specific Metal Reactions with Oxygen Difluoride: Infrared Spectroscopic and Theoretical Investigations of the OScF₂ Radical and OScF with Terminal Single and Triple Scï£¿O Bonds. Chemistry - A European Journal, 2012, 18, 12446-12451.	1.7	11
93	Matrix Infrared Spectroscopic and Theoretical of the Difluoroamino Metal Fluoride Molecules: F2NMF (M = Cu, Ag, Au). Inorganic Chemistry, 2012, 51, 667-673.	1.9	11
94	Spectroscopic Observation of a Groupâ€...12 Oxyfluoride: A Matrixâ€Isolation and Quantumâ€Chemical Investigation of Mercury Oxyfluorides. Angewandte Chemie - International Edition, 2012, 51, 8235-8238.	7.2	24
95	Tantalum atom reactions with ammonia: Matrix infrared spectra and DFT calculations of the H2TaNH and H2Ta(NH2)2 molecules. Chemical Physics Letters, 2012, 523, 6-10.	1.2	7
96	Infrared Spectra of Rh12C and Rh13C in Solid Neon and Solid Argon. Chemical Physics Letters, 2012, 528, 7-10.	1.2	1
97	Infrared Spectra of the Ethynyl Metal Hydrides Produced in Reactions of Laser-Ablated Mn and Re Atoms with Acetylene. Journal of Physical Chemistry A, 2011, 115, 4929-4934.	1.1	20
98	Matrix infrared spectroscopic and density functional theoretical investigations on thorium and uranium atom reactions with dimethyl ether. Dalton Transactions, 2011, 40, 11106.	1.6	13
99	Infrared spectra of CH3â€“MH, CH3â€“M, and CH3â€“MHâ^' prepared via methane activation by laser-ablated Au, Ag, and Cu atoms. Dalton Transactions, 2011, 40, 11115.	1.6	35
100	Quantum-Chemical Calculations and IR Spectra of the (F₂)MF₂ Molecules (M =) Tj ETQq0 0 0 rgBT /Overlock 1 Journal of the American Chemical Society, 2011, 133, 3768-3771.	6.6	13
101	Reactions of Late Lanthanide Metal Atoms and Methanol in Solid Argon: A Matrix Isolation Infrared Spectroscopic and Theoretical Study. Journal of Physical Chemistry A, 2011, 115, 14581-14592.	1.1	14
102	Matrix Infrared Spectroscopic and Theoretical Studies on the Reactions of Scandium, Yttrium, and Lanthanide Metal Atoms with Dimethyl Ether. Journal of Physical Chemistry A, 2011, 115, 11624-11631.	1.1	4
103	Matrix Infrared Spectra and Theoretical Studies of Thorium Oxide Species: ThOxand Th2Oy. Journal of Physical Chemistry A, 2011, 115, 14407-14416.	1.1	47
104	Infrared Spectrum of the CH3OCH2Radical in Solid Argon. Journal of Physical Chemistry A, 2011, 115, 3029-3033.	1.1	10
105	Infrared Spectra of CX₃â^'MnX and CX₂â•MnX₂ (X = H, F, Cl) Prepared in Reactions of Laser-Ablated Manganese Atoms with Halomethanes. Organometallics, 2011, 30, 477-486.	1.1	19
106	Matrix Infrared Spectroscopic and Theoretical Investigations of Uranium Atom and Methanol Reaction Products. Inorganic Chemistry, 2011, 50, 7099-7105.	1.9	14
107	Tetrahydrometalate Species VH₂(H₂), NbH₄, and TaH₄: Matrix Infrared Spectra and Quantum Chemical Calculations. Journal of Physical Chemistry A, 2011, 115, 14175-14183.	1.1	15
108	Matrix Infrared Spectra and Density Functional Calculations of the H₂CCN and H₂CNC Radicals Produced from CH₃CN. Journal of Physical Chemistry A, 2011, 115, 8638-8642.	1.1	26

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109	Matrix Infrared Spectroscopic and Computational Investigations of the Lanthanideâ^'Methylene Complexes CH₂LnF₂ with Single Lnâ^'C Bonds. Journal of Physical Chemistry A, 2011, 115, 1913-1921.	1.1	31
110	Matrix Infrared Spectroscopic and Electronic Structure Investigations of the Lanthanide Metal Atom-Methyl Fluoride Reaction Products CH₃-LnF and CH₂-LnHF: The Formation of Single Carbon-Lanthanide Metal Bonds. Journal of Physical Chemistry A, 2011, 115, 5609-5624.	1.1	25
111	Infrared Spectra of Rh Atom Reaction Products with C₂H₂: The HRhCCH, RhCCH, RhCCH₂, and Rh-Î·²-C₂H₂ Molecules. Journal of Physical Chemistry A, 2011, 115, 9447-9455.	1.1	21
112	Infrared Spectra and Quantum Chemical Calculations of the Bridge-Bonded HC(F)LnF₂ (Ln) Tj ETQq0 0 0 rgBT /Overlock 10	1.1	22
113	Combined Triple and Double Bonds to Uranium: The Nâ‰¡Uâ•Nâ^'H Uranimine Nitride Molecule Prepared in Solid Argon. Inorganic Chemistry, 2011, 50, 3826-3831.	1.9	43
114	The HRuCCH, RuCCH₂, and Ru-Î·²-C₂H₂ Molecules: Infrared Spectra and Density Functional Calculations. Journal of Physical Chemistry A, 2011, 115, 12194-12200.	1.1	18
115	Infrared Spectra of CH₃â€“MF and Several Fragments Prepared by Methyl Fluoride Reactions with Laser-Ablated Cu, Ag, and Au Atoms. Inorganic Chemistry, 2011, 50, 10319-10327.	1.9	20
116	Infrared spectra and quantum chemical calculations of the uranium-carbon molecules UC, CUC, UCH, and U(CC)2. Journal of Chemical Physics, 2011, 134, 244313.	1.2	36
117	Is rhodium tetroxide in the formal oxidation state VIII stable? a quantum chemical and matrix isolation investigation of rhodium oxides. Theoretical Chemistry Accounts, 2011, 129, 667-676.	0.5	16
118	Matrix Infrared Spectroscopy and a Theoretical Investigation of SUO and US2. European Journal of Inorganic Chemistry, 2011, 2011, 4457-4463.	1.0	11
119	Infrared spectra of CH3â€“MH, CH3â€“M, and CH3â€“MHâ^' prepared via methane activation by laser-ablated Au, Ag, and Cu atoms. Dalton Transactions, 2011, 40, 11115.	1.6	2
120	Metal Atom Reactions to Form Novel Small Molecules. , 2011, , 25-49.		1
121	Noble Gas Matrices May Change the Electronic Structure of Trapped Molecules: The UO₂(Ng)₄ [Ng=Ne, Ar] Case. Chemistry - A European Journal, 2010, 16, 12804-12807.	1.7	25
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