

Bing Xu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Infrared photodissociation spectroscopic investigation on VO ⁺ and NbO ⁺ hydrolysis catalyzed by water molecules. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 528-535.	2.8	4
2	Metal Oxo-Fluoride Molecules OnMF ₂ (M = Mn and Fe; n = 1–4) and O ₂ MnF: Matrix Infrared Spectra and Quantum Chemistry. <i>Inorganic Chemistry</i> , 2021, 60, 7687-7696.	4.0	3
3	Cleavage of the N≡N Triple Bond and Unpredicted Formation of the Cyclic 1,3-Diazadiborete (FB) ₂ N ₂ from N ₂ and Fluoroborylene BF. <i>Angewandte Chemie</i> , 2021, 133, 17342-17347.	2.0	3
4	Cleavage of the N≡N Triple Bond and Unpredicted Formation of the Cyclic 1,3-Diazadiborete (FB) ₂ N ₂ from N ₂ and Fluoroborylene BF. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17205-17210.	13.8	18
5	Activation of CO ₂ by Alkaline-Earth Metal Hydrides: Matrix Infrared Spectra and DFT Calculations of HM(O ₂ CH) and (MH ₂)(HCOOH) Complexes (M = Sr, Ba). <i>Inorganic Chemistry</i> , 2021, 60, 11466-11473.	4.0	6
6	CO ₂ activation by ligand-free manganese hydrides in a parahydrogen matrix. <i>Chemical Communications</i> , 2021, 57, 2301-2304.	4.1	4
7	F ₂ BMF (M = V, Nb, and Ta) and FBMF ₂ (M = Nb and Ta): A Combined Matrix Isolation Infrared Spectroscopic and Quantum Chemical Investigation. <i>Journal of Physical Chemistry A</i> , 2020, 124, 8192-8200.	2.5	0
8	Boron-Transition-Metal Triple-Bond FB≡MF ₂ Complexes. <i>Inorganic Chemistry</i> , 2019, 58, 13418-13425.	4.0	11
9	Matrix infrared spectroscopy of F ₂ BMF and FB≡WF ₂ (M = Cr, Mo and W) complexes and quantum chemistry calculations. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 25577-25583.	2.8	5
10	Fluoroborylene Complexes FBMF ₂ (M = Sc, Y, La, Ce): Matrix Infrared Spectra and Quantum Chemical Calculations. <i>Inorganic Chemistry</i> , 2019, 58, 2363-2371.	4.0	6
11	Matrix-Infrared Spectra and Structures of HM≡SiH ₃ (M = Ge, Sn, Pb, Sb, Bi, Te Atoms). <i>Journal of Physical Chemistry A</i> , 2018, 122, 81-88.	2.5	7
12	Matrix Infrared Spectra and Theoretical Calculations of Fluoroboryl Complexes F ₂ B≡MF (M = C, Si, Ge, Sn and Pb). <i>Journal of Physical Chemistry A</i> , 2018, 122, 7301-7311.	2.5	4
13	Double and Triple Si≡H≡M Bridge Bonds: Matrix Infrared Spectra and Theoretical Calculations for Reaction Products of Silane with Ti, Zr, and Hf Atoms. <i>Journal of Physical Chemistry A</i> , 2017, 121, 3898-3908.	2.5	3
14	Infrared Spectra of Novel NgBeSO ₂ Complexes (Ng = Ne, Ar, Kr, Xe) in Low Temperature Matrixes. <i>Journal of Physical Chemistry A</i> , 2016, 120, 8590-8598.	2.5	22
15	Spectroscopic observation of photo-induced metastable linkage isomers of coinage metal (Cu, Ag, Au) sulfur dioxide complexes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 2607.	2.8	14