

Yu Gong

List of Publications by Year in descending order

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106
papers

1,920
citations

279701

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Discrimination and quantitation of halobenzoic acid positional isomers upon Th(IV) coordination by mass spectrometry. <i>Chemical Communications</i> , 2022, 58, 2658-2661.	2.2	7
2	Gas-phase synthesis and structure of thorium benzyne complexes. <i>Chemical Communications</i> , 2022, 58, 7018-7021.	2.2	5
3	Oxo-sulfido molybdenum and tungsten fluorides with M=O and M=S multiple bonds. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 19760-19765.	1.3	0
4	Vanadium, niobium and tantalum complexes with terminal sulfur radical ligands. <i>Dalton Transactions</i> , 2021, 50, 11300-11306.	1.6	4
5	Photoluminescence of LaI ₃ switched on and off by association and dissociation of non-luminescent tetrahydrofuran. <i>Dalton Transactions</i> , 2021, 50, 3797-3800.	1.6	3
6	HMNTA Complexes of Tetravalent Metal Ions: On the Roles of Carbonyl Oxygen and Amine Nitrogen in the Stabilization of Gas-Phase M(HMNTA) ₂ ⁴⁺ Complexes. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 700-706.	1.2	2
7	Influence of Fluoride Ions on the Speciation and Electrochemical Behavior of Th(IV) in Molten LiCl-KCl with a Copper Electrode. <i>Journal of the Electrochemical Society</i> , 2021, 168, 026516.	1.3	1
8	On the Structures of Thorium Fluoride and Oxyfluoride Anions in Molten FLiBe and FLiNaK. <i>Journal of Physical Chemistry B</i> , 2021, 125, 1640-1646.	1.2	10
9	Molten salt synthesis of samarium borides with controllable stoichiometry and morphology. <i>Journal of Alloys and Compounds</i> , 2021, 867, 159174.	2.8	7
10	The Electrolytic Reduction of Gd ₂ O ₃ in LiCl-KCl-Li ₂ O Molten Salt. <i>Journal of the Electrochemical Society</i> , 2021, 168, 082512.	1.3	10
11	Mass spectrometric and theoretical study on the formation of uranyl hydride from uranyl carboxylate. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 20073-20079.	1.3	9
12	Inhibition effect of ZrF ₄ on UO ₂ precipitation in the LiBeF ₂ molten salt. <i>RSC Advances</i> , 2021, 11, 18708-18716.	1.7	6
13	A Simple Molten Salt Route to Crystalline \hat{I}^2 -MoB ₂ Nanosheets with High Activity for the Hydrogen Evolution Reaction. <i>Inorganic Chemistry</i> , 2021, 60, 18075-18081.	1.9	13
14	Electrochemical separation of uranium from lanthanide (La, Eu, Gd) fluorides in molten LiCl-KCl. <i>Separation and Purification Technology</i> , 2020, 235, 116227.	3.9	18
15	Complexation of Ln ³⁺ with Pyridine-2,6-dicarboxamide: Formation of the 1:2 Complexes in Solution and Gas Phase. <i>Inorganic Chemistry</i> , 2020, 59, 14486-14492.	1.9	7
16	Sulfur-substituted uranyl stabilized by fluoride ligands: matrix preparation of U(O)(S)F ₂ via oxidation of U(0) by SOF ₂ . <i>Chemical Communications</i> , 2020, 56, 6782-6785.	2.2	5
17	Sulfur Dioxide Complexes of Main-Group Elements: from SO ₂ ⁰ to SO ₂ ⁺ and SO ₂ ²⁺ upon Coordination to Aluminum and Silicon Difluorides. <i>Inorganic Chemistry</i> , 2020, 59, 4703-4710.	1.9	9
18	Raman Spectroscopic and Theoretical Study of Scandium Fluoride and Oxyfluoride Anions in Molten FLiNaK. <i>Journal of Physical Chemistry B</i> , 2020, 124, 6671-6678.	1.2	12

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19	Carbonâ€“sulfur bond strength in methanesulfinate and benzenesulfinate ligands directs decomposition of Np(ν) and Pu(ν) coordination complexes. Dalton Transactions, 2020, 49, 3293-3303.	1.6	1
20	End-On Cyanogen Complexes of Iridium, Palladium, and Platinum. Inorganic Chemistry, 2020, 59, 6489-6495.	1.9	6
21	Electrochemical behaviors and electrolytic separation of Th(IV) and Ce(III) in ThF ₄ -CeF ₃ -LiCl-KCl quaternary melt. Separation and Purification Technology, 2019, 210, 236-241.	3.9	8
22	Infrared Spectroscopic and Theoretical Studies of the 3d Transition Metal Oxyfluoride Molecules. Inorganic Chemistry, 2019, 58, 9796-9810.	1.9	6
23	Bidentate SO ₂ Complexes of Zirconium and Hafnium Difluorides with Highly Activated Sâ€“O Bonds. Journal of Physical Chemistry A, 2019, 123, 9567-9572.	1.1	4
24	Side-On OMoF ₂ (\bar{I} -SO) and OWF ₂ (\bar{I} -SO) Complexes Featuring Peroxo-Like Sulfur Monoxide Ligand. Inorganic Chemistry, 2019, 58, 15652-15658.	1.9	6
25	Tetrapositive Hafnium-Diamide Complexes in the Gas Phase: Formation, Structure and Reaction. Journal of the American Society for Mass Spectrometry, 2019, 30, 2623-2631.	1.2	5
26	Efficient Removal of Azo-Dyes in Aqueous Solution by CeB ₆ Nanocrystals. ACS Applied Nano Materials, 2019, 2, 5704-5712.	2.4	12
27	End-On Oxygen-Bound Sulfur Monoxide Complex of Titanium Oxyfluoride. Inorganic Chemistry, 2019, 58, 11801-11806.	1.9	4
28	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
29	Side-On Sulfur Monoxide Complexes of Tantalum, Niobium, and Vanadium Oxyfluorides. Inorganic Chemistry, 2019, 58, 3807-3814.	1.9	14
30	Electrochemical and Raman Spectroscopic Investigations on the Speciation and Behavior of Chromium Ions in Fluoride Doped Molten LiCl-KCl. Journal of the Electrochemical Society, 2019, 166, H463-H467.	1.3	10
31	Coordination Structures of the Uranyl(VI)â€“Diamide Complexes: A Combined Mass Spectrometric, EXAFS Spectroscopic, and Theoretical Study. Inorganic Chemistry, 2019, 58, 5695-5702.	1.9	13
32	Bidentate Sulfur Dioxide Complexes of Scandium, Yttrium, and Lanthanum Difluorides. Inorganic Chemistry, 2019, 58, 5281-5288.	1.9	8
33	Communicationâ€“Electrochemical Behavior of UO ₂ ²⁺ and Its Electrodeposition from UO ₂ F ₂ -FLiBe Melt. Journal of the Electrochemical Society, 2019, 166, D189-D191.	1.3	3
34	The oxidation of UF ₄ in FLiNaK melt and its electrolysis. Journal of Radioanalytical and Nuclear Chemistry, 2019, 319, 899-906.	0.7	6
35	Synthesis of a dinuclear europium(iii) complex through deprotonation and oxygen-atom transfer of trimethylamine N-oxide. Dalton Transactions, 2019, 48, 17158-17162.	1.6	3
36	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

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37	Electrochemical deposition of neodymium in LiF-CaF ₂ from Nd ₂ O ₃ assisted by AlF ₃ . <i>Electrochimica Acta</i> , 2018, 261, 289-295.	2.6	12
38	Oxygen radical character in group 11 oxygen fluorides. <i>Nature Communications</i> , 2018, 9, 1267.	5.8	11
39	Infrared Spectra of the SO ₂ F ₂ ⁺ Anion in Solid Argon and Neon. <i>Journal of Physical Chemistry A</i> , 2018, 122, 7723-7729.	1.1	7
40	Electrochemical Behavior of UO ₂ F ₂ and Its Electrodeposition from UO ₂ F ₂ -FLiNaK Melt. <i>Journal of the Electrochemical Society</i> , 2018, 165, D301-D306.	1.3	12
41	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. <i>Journal of Physical Chemistry A</i> , 2018, 122, 5342-5353.	1.1	10
42	Study on the Electrochemical Co-Reduction of Gd(III) and Al(III) in LiF-CaF ₂ Melt. <i>Journal of the Electrochemical Society</i> , 2018, 165, D411-D416.	1.3	5
43	Infrared Spectroscopic and Theoretical Studies of Group 3 Metal Isocyanide Molecules. <i>Journal of Physical Chemistry A</i> , 2018, 122, 7099-7106.	1.1	14
44	Formation and Characterization of Zr ⁴⁺ Stabilized by Neutral Tridentate Ligands in the Gas Phase. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 2327-2332.	1.2	9
45	Electrochemical Behavior of Graphite Anode in LiF-NaF-KF Eutectic with YF ₃ . <i>Electrochimica Acta</i> , 2017, 225, 392-398.	2.6	8
46	The evaporation behaviors of rare-earth-doped FLiNaK melts during low-pressure distillation. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 311, 637-642.	0.7	13
47	Electrochemical behavior and electrowinning of uranium(IV) from FLiNaK molten salt. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 311, 1891-1897.	0.7	14
48	Insights into the Coordination and Extraction of Yttrium(III) Ions with a Phenoxyacetic Acid Ionic-Liquid Extractant. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 2332-2339.	1.0	11
49	Formation and Characterization of Homoleptic Thorium Isocyanide Complexes. <i>Inorganic Chemistry</i> , 2017, 56, 5060-5068.	1.9	20
50	Formation and Fragmentation Chemistry of Tripositive Ln(TMGA) ₃ ³⁺ Complexes in the Gas Phase. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 1696-1701.	1.2	9
51	Postsynthesis Modification of a Metallosalen-Containing Metal-Organic Framework for Selective Th(IV)/Ln(III) Separation. <i>Inorganic Chemistry</i> , 2017, 56, 12357-12361.	1.9	53
52	Infrared Spectroscopic and Theoretical Studies on the OMF ₂ and OMF (M = Cr, Mo, W) Molecules in Solid Argon. <i>Journal of Physical Chemistry A</i> , 2017, 121, 7603-7612.	1.1	8
53	Heptavalent Actinide Tetroxides NpO ₄ ⁺ and PuO ₄ ⁺ : Oxidation of Pu(V) to Pu(VII) by Adding an Electron to PuO ₄ . <i>Journal of Physical Chemistry A</i> , 2017, 121, 9156-9162.	1.1	9
54	Coordination Structure and Fragmentation Chemistry of the Tripositive Lanthanide-Thio-Diglycolamide Complexes. <i>Journal of Physical Chemistry A</i> , 2017, 121, 9429-9434.	1.1	8

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55	Matrix Infrared Spectra of Manganese and Iron Isocyanide Complexes. <i>Journal of Physical Chemistry A</i> , 2017, 121, 8835-8842.	1.1	5
56	Synthesis and Hydrolysis of Uranyl, Neptunyl, and Plutonyl Gas-Phase Complexes Exhibiting Discrete Actinide-Carbon Bonds. <i>Organometallics</i> , 2016, 35, 1228-1240.	1.1	30
57	Electrochemical behavior of Th(IV) and its electrodeposition from ThF ₄ -LiCl-KCl melt. <i>Electrochimica Acta</i> , 2016, 196, 286-293.	2.6	23
58	Detection and Electronic Structure of Naked Actinide Complexes: Rhombic-Ring (AnN) ₂ Molecules Stabilized by Delocalized π -Bonding. <i>Journal of the American Chemical Society</i> , 2016, 138, 893-905.	6.6	20
59	Reactions of Laser-Ablated U Atoms with HCN: Infrared Spectra in Solid Argon and Quantum Chemical Calculations for HUNC. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 2974-2981.	1.0	10
60	Electrospray production and collisional dissociation of lanthanide/methylsulfonyl anion complexes: Sulfur dioxide anion as a ligand. <i>International Journal of Mass Spectrometry</i> , 2015, 392, 45-52.	0.7	4
61	Synthesis and Structures of Plutonyl Nitrate Complexes: Is Plutonium Heptavalent in PuO ₃ (NO ₃) ₂ ⁺ ? <i>Inorganic Chemistry</i> , 2015, 54, 2367-2373.	1.9	19
62	Gas-Phase Reactions of Molecular Oxygen with Uranyl(V) Anionic Complexes—Synthesis and Characterization of New Superoxides of Uranyl(VI). <i>Journal of Physical Chemistry A</i> , 2015, 119, 3628-3635.	1.1	23
63	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. <i>Chemical Communications</i> , 2015, 51, 3899-3902.	2.2	26
64	Dissociation of Diglycolamide Complexes of Ln ³⁺ (Ln = La–Lu) and An ³⁺ (An = Th, U, Pu, Am, Cm, Bk, Cf, Es, Fm, Md, No, Lr). <i>Inorganic Chemistry</i> , 2014, 53, 12135-12140.	1.9	21
65	Reactions of Lanthanide Atoms with Oxygen Difluoride and the Role of the Ln Oxidation State. <i>Inorganic Chemistry</i> , 2014, 53, 446-456.	1.9	25
66	Tetrapositive Plutonium, Neptunium, Uranium, and Thorium Coordination Complexes: Chemistry Revealed by Electron Transfer and Collision Induced Dissociation. <i>Journal of Physical Chemistry A</i> , 2014, 118, 2749-2755.	1.1	16
67	Activation of Gas-Phase Uranyl: From an Oxo to a Nitrido Complex. <i>Journal of Physical Chemistry A</i> , 2014, 118, 325-330.	1.1	25
68	A Tetrapositive Metal Ion in the Gas Phase: Thorium(IV) Coordinated by Neutral Tridentate Ligands. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6885-6888.	7.2	34
69	Experimental and Theoretical Studies on the Fragmentation of Gas-Phase Uranyl ⁺ , Neptunyl ⁺ , and Plutonyl ⁺ Diglycolamide Complexes. <i>Journal of Physical Chemistry A</i> , 2013, 117, 10544-10550.	1.1	33
70	Formation and Characterization of the Uranyl ⁺ SO ₂ Complex, UO ₂ (CH ₃ SO ₂) ₂ ⁺ . <i>Journal of Physical Chemistry A</i> , 2013, 117, 783-787.	1.1	18
71	Reactions of Group 3 Metals with OF ₂ : Infrared Spectroscopic and Theoretical Investigations of the Group 3 Oxydifluoride OMF ₂ and Oxyfluoride OMF Molecules. <i>Journal of Physical Chemistry A</i> , 2012, 116, 10115-10121.	1.1	10
72	Infrared spectroscopic and theoretical studies of the OTiF ₂ , OZrF ₂ and OHfF ₂ molecules with terminal oxo ligands. <i>Dalton Transactions</i> , 2012, 41, 11706.	1.6	24

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73	Infrared Spectroscopic and Theoretical Investigations of the OUF ₂ and OThF ₂ Molecules with Triple Oxo Bond Character. <i>Inorganic Chemistry</i> , 2012, 51, 6983-6991.	1.9	31
74	Methane to Methanol Conversion Induced by Thorium Oxide through the CH ₃ Th(O)H Intermediate in Solid Argon. <i>Inorganic Chemistry</i> , 2012, 51, 11055-11060.	1.9	11
75	Formation of Metal Oxyfluorides from Specific Metal Reactions with Oxygen Difluoride: Infrared Spectroscopic and Theoretical Investigations of the OScF ₂ Radical and OScF with Terminal Single and Triple ScF ₂ O Bonds. <i>Chemistry - A European Journal</i> , 2012, 18, 12446-12451.	1.7	11
76	Matrix Infrared Spectroscopic and Theoretical of the Difluoroamino Metal Fluoride Molecules: F ₂ NMF (M = Cu, Ag, Au). <i>Inorganic Chemistry</i> , 2012, 51, 667-673.	1.9	11
77	Spectroscopic Observation of a Group 12 Oxyfluoride: A Matrix Isolation and Quantum Chemical Investigation of Mercury Oxyfluorides. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8235-8238.	7.2	24
78	Matrix infrared spectroscopic and density functional theoretical investigations on thorium and uranium atom reactions with dimethyl ether. <i>Dalton Transactions</i> , 2011, 40, 11106.	1.6	13
79	Reactions of Late Lanthanide Metal Atoms and Methanol in Solid Argon: A Matrix Isolation Infrared Spectroscopic and Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2011, 115, 14581-14592.	1.1	14
80	Matrix Infrared Spectroscopic and Theoretical Studies on the Reactions of Scandium, Yttrium, and Lanthanide Metal Atoms with Dimethyl Ether. <i>Journal of Physical Chemistry A</i> , 2011, 115, 11624-11631.	1.1	4
81	Matrix Infrared Spectra and Theoretical Studies of Thorium Oxide Species: ThO and Th ₂ O. <i>Journal of Physical Chemistry A</i> , 2011, 115, 14407-14416.	1.1	47
82	Infrared Spectrum of the CH ₃ OCH ₂ Radical in Solid Argon. <i>Journal of Physical Chemistry A</i> , 2011, 115, 3029-3033.	1.1	10
83	Matrix Infrared Spectroscopic and Theoretical Investigations of Uranium Atom and Methanol Reaction Products. <i>Inorganic Chemistry</i> , 2011, 50, 7099-7105.	1.9	14
84	Is rhodium tetroxide in the formal oxidation state VIII stable? a quantum chemical and matrix isolation investigation of rhodium oxides. <i>Theoretical Chemistry Accounts</i> , 2011, 129, 667-676.	0.5	16
85	Water Adsorption on Platinum Dioxide and Dioxygen Complex: Matrix Isolation Infrared Spectroscopic and Theoretical Study of Three PtO ₂ -H ₂ O Complexes. <i>ChemPhysChem</i> , 2010, 11, 1888-1894.	1.0	9
86	Infrared Spectra of Oxygen-Rich Yttrium and Lanthanum Dioxygen/Ozonide Complexes in Solid Argon. <i>Journal of Physical Chemistry A</i> , 2009, 113, 8569-8576.	1.1	24
87	Formation and Characterization of ZrO ₃ and HfO ₃ Molecules in Solid Argon. <i>Chinese Journal of Chemical Physics</i> , 2009, 22, 113-118.	0.6	9
88	Innentitelbild: Formation and Characterization of the Iridium Tetroxide Molecule with Iridium in the Oxidation State +VIII (Angew. Chem. 42/2009). <i>Angewandte Chemie</i> , 2009, 121, 7844-7844.	1.6	0
89	Formation and Characterization of the Iridium Tetroxide Molecule with Iridium in the Oxidation State +VIII. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7879-7883.	7.2	64
90	Inside Cover: Formation and Characterization of the Iridium Tetroxide Molecule with Iridium in the Oxidation State +VIII (Angew. Chem. Int. Ed. 42/2009). <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7708-7708.	7.2	0

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91	Spectroscopic Characterization of a Copper(III) Trisuperoxide Complex Bearing Both Side-On and End-On Ligands. <i>Journal of Physical Chemistry A</i> , 2009, 113, 5355-5359.	1.1	17
92	Infrared Spectra of Transition-Metal Dioxide Anions: $MO_2^{\cdot-}$ (M = Rh, Ir, Pt, Au) in Solid Argon. <i>Journal of Physical Chemistry A</i> , 2009, 113, 4990-4995.	1.1	19
93	Formation and characterization of the CuO_5 , CuO_4 and $CuO_4^{\cdot-}$ complexes in solid argon. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 8714.	1.3	17
94	Spectroscopic and Theoretical Studies of Transition Metal Oxides and Dioxygen Complexes. <i>Chemical Reviews</i> , 2009, 109, 6765-6808.	23.0	351
95	Formation and Characterization of Mononuclear and Dinuclear Manganese Oxide-Dioxygen Complexes in Solid Argon. <i>Journal of Physical Chemistry A</i> , 2008, 112, 4936-4941.	1.1	26
96	Matrix Infrared Spectra and Density Functional Calculations of TiO_3 and TiO_5 in Solid Argon. <i>Journal of Physical Chemistry A</i> , 2008, 112, 9758-9762.	1.1	27
97	Matrix Isolation Infrared Spectroscopic and Theoretical Study of the Hydrolysis of Boron Dioxide in Solid Argon. <i>Journal of Physical Chemistry A</i> , 2008, 112, 5670-5675.	1.1	13
98	Formation and Characterization of Two FeO_3 Isomers in Solid Argon. <i>Journal of Physical Chemistry A</i> , 2008, 112, 10838-10842.	1.1	14
99	Interconvertible Side-On- and End-On-Bonded Oxo $^{\cdot-}$ Superoxo Titanium Ozonide Complexes. <i>Journal of Physical Chemistry A</i> , 2007, 111, 6127-6130.	1.1	30
100	Formation and Characterization of the Oxygen-Rich Hafnium Dioxygen Complexes: $OHf(i^2-O_2)(i^2-O_3)$, $Hf(i^2-O_2)_3$, and $Hf(i^2-O_2)_4$. <i>Journal of Physical Chemistry A</i> , 2007, 111, 8973-8979.	1.1	29
101	Formation and Characterization of the Photochemically Interconvertible Side-On and End-On Bonded Dioxygen $^{\cdot-}$ Iron Dioxide Complexes in Solid Argon. <i>Journal of Physical Chemistry A</i> , 2007, 111, 12001-12006.	1.1	36
102	Matrix Isolation Infrared Spectroscopic and Theoretical Study of Dinuclear Chromium Oxide Clusters: Cr_2O_n ($n = 2, 4, 6$) in Solid Argon. <i>Journal of Physical Chemistry A</i> , 2007, 111, 9775-9780.	1.1	18
103	Formation and Characterization of the Tetranuclear Scandium Nitride: Sc_4N_4 . <i>Journal of Physical Chemistry A</i> , 2007, 111, 6204-6207.	1.1	39
104	Formation and Characterization of the Oxygen-Rich Scandium Oxide/Dioxygen Complexes ScO_n ($n = 4, 6$). <i>Journal of Physical Chemistry A</i> , 2007, 111, 12001-12006.	1.1	38
105	Matrix Isolation Infrared Spectroscopic and Theoretical Study of Group IV Metal Oxide Clusters: M_2O_2 and M_2O_4 . <i>Journal of Physical Chemistry A</i> , 2007, 111, 3534-3539.	1.1	34
106	Preparation of group 3 metal sulfur monoxide complexes via oxidation of metal atoms by SO_2 in cryogenic matrixes. <i>European Journal of Inorganic Chemistry</i> , 0, , .	1.0	2