

Yu Gong

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Spectroscopic and Theoretical Studies of Transition Metal Oxides and Dioxygen Complexes. <i>Chemical Reviews</i> , 2009, 109, 6765-6808.	47.7	351
2	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.	13.8	64
3	Postsynthesis Modification of a Metallosalen-Containing Metal-Organic Framework for Selective Th(IV)/Ln(III) Separation. <i>Inorganic Chemistry</i> , 2017, 56, 12357-12361.	4.0	53
4	Matrix Infrared Spectra and Theoretical Studies of Thorium Oxide Species: ThO _x and Th ₂ O _y . <i>Journal of Physical Chemistry A</i> , 2011, 115, 14407-14416.	2.5	47
5	Formation and Characterization of the Tetranuclear Scandium Nitride: Sc ₄ N ₄ . <i>Journal of Physical Chemistry A</i> , 2007, 111, 6204-6207.	2.5	39
6	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.	2.5	38
7	Formation and Characterization of the Photochemically Interconvertible Side-On and End-On Bonded Dioxygen-Iron Dioxide Complexes in Solid Argon. <i>Journal of Physical Chemistry A</i> , 2007, 111, 12001-12006.	2.5	36
8	Matrix Isolation Infrared Spectroscopic and Theoretical Study of Group IV Metal Oxide Clusters: M ₂ O ₂ and M ₂ O ₄ . <i>Journal of Physical Chemistry A</i> , 2007, 111, 3534-3539.	2.5	34
9	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.	13.8	34
10	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.	2.5	33
11	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.	4.0	31
12	Interconvertible Side-On- and End-On-Bonded Oxo-Superoxo Titanium Ozonide Complexes. <i>Journal of Physical Chemistry A</i> , 2007, 111, 6127-6130.	2.5	30
13	Synthesis and Hydrolysis of Uranyl, Neptunyl, and Plutonyl Gas-Phase Complexes Exhibiting Discrete Actinide-Carbon Bonds. <i>Organometallics</i> , 2016, 35, 1228-1240.	2.3	30
14	Formation and Characterization of the Oxygen-Rich Hafnium Dioxygen Complexes: OHf(O) ₂ (O) ₂ , Hf(O) ₂ (O) ₂ (O) ₃ , and Hf(O) ₂ (O) ₂ (O) ₄ . <i>Journal of Physical Chemistry A</i> , 2007, 111, 8973-8979.	2.5	29
15	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.	2.5	27
16	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.	2.5	26
17	Reactions of laser-ablated U atoms with (CN) ₂ : infrared spectra and electronic structure calculations of U(CN) ₂ and U(CN) ₄ in solid argon. <i>Chemical Communications</i> , 2015, 51, 3899-3902.	4.1	26
18	Reactions of Lanthanide Atoms with Oxygen Difluoride and the Role of the Ln Oxidation State. <i>Inorganic Chemistry</i> , 2014, 53, 446-456.	4.0	25

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19	Activation of Gas-Phase Uranyl: From an Oxo to a Nitrido Complex. <i>Journal of Physical Chemistry A</i> , 2014, 118, 325-330.	2.5	25
20	Infrared Spectra of Oxygen-Rich Yttrium and Lanthanum Dioxide/Ozonide Complexes in Solid Argon. <i>Journal of Physical Chemistry A</i> , 2009, 113, 8569-8576.	2.5	24
21	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.	3.3	24
22	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.	13.8	24
23	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.	2.5	23
24	Electrochemical behavior of Th(IV) and its electrodeposition from ThF ₄ -LiCl-KCl melt. <i>Electrochimica Acta</i> , 2016, 196, 286-293.	5.2	23
25	Dissociation of Diglycolamide Complexes of Ln ³⁺ (Ln = La–Lu) and An ³⁺ (An = Tj, ET, Qq, 1, 0.784314, rg, B). <i>Inorganic Chemistry</i> , 2014, 53, 12135-12140.	4.0	21
26	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.	13.7	20
27	Formation and Characterization of Homoleptic Thorium Isocyanide Complexes. <i>Inorganic Chemistry</i> , 2017, 56, 5060-5068.	4.0	20
28	Infrared Spectra of Transition-Metal Dioxide Anions: MO ₂ ⁻ (M = Rh, Ir, Pt, Au) in Solid Argon. <i>Journal of Physical Chemistry A</i> , 2009, 113, 4990-4995.	2.5	19
29	Synthesis and Structures of Plutonyl Nitrate Complexes: Is Plutonium Heptavalent in PuO ₃ (NO ₃) ₂ ⁻ ? <i>Inorganic Chemistry</i> , 2015, 54, 2367-2373.	4.0	19
30	Matrix Isolation Infrared Spectroscopic and Theoretical Study of Dinuclear Chromium Oxide Clusters: Cr ₂ O _n (n = 2, 4, 6) in Solid Argon. <i>Journal of Physical Chemistry A</i> , 2007, 111, 9775-9780.	2.5	18
31	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.	2.5	18
32	Electrochemical separation of uranium from lanthanide (La, Eu, Gd) fluorides in molten LiCl-KCl. <i>Separation and Purification Technology</i> , 2020, 235, 116227.	7.9	18
33	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.	2.5	17
34	Formation and characterization of the CuO ₅ , CuO ₄ and CuO ₄ ⁻ complexes in solid argon. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 8714.	2.8	17
35	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.	1.4	16
36	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.	2.5	16

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37	Formation and Characterization of Two FeO ₃ Isomers in Solid Argon. <i>Journal of Physical Chemistry A</i> , 2008, 112, 10838-10842.	2.5	14
38	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.	2.5	14
39	Matrix Infrared Spectroscopic and Theoretical Investigations of Uranium Atom and Methanol Reaction Products. <i>Inorganic Chemistry</i> , 2011, 50, 7099-7105.	4.0	14
40	Electrochemical behavior and electrowinning of uranium(IV) from FLiNaK molten salt. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 311, 1891-1897.	1.5	14
41	Infrared Spectroscopic and Theoretical Studies of Group 3 Metal Isocyanide Molecules. <i>Journal of Physical Chemistry A</i> , 2018, 122, 7099-7106.	2.5	14
42	Side-On Sulfur Monoxide Complexes of Tantalum, Niobium, and Vanadium Oxyfluorides. <i>Inorganic Chemistry</i> , 2019, 58, 3807-3814.	4.0	14
43	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.	2.5	13
44	Matrix infrared spectroscopic and density functional theoretical investigations on thorium and uranium atom reactions with dimethyl ether. <i>Dalton Transactions</i> , 2011, 40, 11106.	3.3	13
45	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.	1.5	13
46	Coordination Structures of the Uranyl(VI) "Diamide Complexes: A Combined Mass Spectrometric, EXAFS Spectroscopic, and Theoretical Study. <i>Inorganic Chemistry</i> , 2019, 58, 5695-5702.	4.0	13
47	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.	4.0	13
48	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. <i>Journal of Physical Chemistry A</i> , 2018, 122, 516-528.	2.5	12
49	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.	5.2	12
50	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.	2.9	12
51	Efficient Removal of Azo-Dyes in Aqueous Solution by CeB ₆ Nanocrystals. <i>ACS Applied Nano Materials</i> , 2019, 2, 5704-5712.	5.0	12
52	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.	2.6	12
53	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.	4.0	11
54	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.	3.3	11

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55	Matrix Infrared Spectroscopic and Theoretical of the Difluoroamino Metal Fluoride Molecules: F2NMF (M = Cu, Ag, Au). <i>Inorganic Chemistry</i> , 2012, 51, 667-673.	4.0	11
56	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.	2.0	11
57	Oxygen radical character in group 11 oxygen fluorides. <i>Nature Communications</i> , 2018, 9, 1267.	12.8	11
58	Infrared Spectrum of the CH ₃ OCH ₂ Radical in Solid Argon. <i>Journal of Physical Chemistry A</i> , 2011, 115, 3029-3033.	2.5	10
59	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.	2.5	10
60	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.	2.0	10
61	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.	2.5	10
62	Electrochemical and Raman Spectroscopic Investigations on the Speciation and Behavior of Chromium Ions in Fluoride Doped Molten LiCl-KCl. <i>Journal of the Electrochemical Society</i> , 2019, 166, H463-H467.	2.9	10
63	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.	2.6	10
64	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.	2.9	10
65	Formation and Characterization of ZrO ₃ and HfO ₃ Molecules in Solid Argon. <i>Chinese Journal of Chemical Physics</i> , 2009, 22, 113-118.	1.3	9
66	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.	2.1	9
67	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.	2.8	9
68	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.	2.5	9
69	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.	2.8	9
70	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.	4.0	9
71	Mass spectrometric and theoretical study on the formation of uranyl hydride from uranyl carboxylate. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 20073-20079.	2.8	9
72	Electrochemical Behavior of Graphite Anode in LiF-NaF-KF Eutectic with YF ₃ . <i>Electrochimica Acta</i> , 2017, 225, 392-398.	5.2	8

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73	Infrared Spectroscopic and Theoretical Studies on the OMF_2 and OMF ($M = \text{Cr}, \text{Mo}, \text{W}$) Molecules in Solid Argon. <i>Journal of Physical Chemistry A</i> , 2017, 121, 7603-7612.	2.5	8
74	Coordination Structure and Fragmentation Chemistry of the Tripositive Lanthanide-Thio-Diglycolamide Complexes. <i>Journal of Physical Chemistry A</i> , 2017, 121, 9429-9434.	2.5	8
75	Electrochemical behaviors and electrolytic separation of Th(IV) and Ce(III) in $\text{ThF}_4\text{-CeF}_3\text{-LiCl-KCl}$ quaternary melt. <i>Separation and Purification Technology</i> , 2019, 210, 236-241.	7.9	8
76	Bidentate Sulfur Dioxide Complexes of Scandium, Yttrium, and Lanthanum Difluorides. <i>Inorganic Chemistry</i> , 2019, 58, 5281-5288.	4.0	8
77	Infrared Spectra of the SO_2F_2 Anion in Solid Argon and Neon. <i>Journal of Physical Chemistry A</i> , 2018, 122, 7723-7729.	2.5	7
78	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.	4.0	7
79	Molten salt synthesis of samarium borides with controllable stoichiometry and morphology. <i>Journal of Alloys and Compounds</i> , 2021, 867, 159174.	5.5	7
80	Discrimination and quantitation of halobenzoic acid positional isomers upon Th(IV) coordination by mass spectrometry. <i>Chemical Communications</i> , 2022, 58, 2658-2661.	4.1	7
81	Infrared Spectroscopic and Theoretical Studies of the 3d Transition Metal Oxyfluoride Molecules. <i>Inorganic Chemistry</i> , 2019, 58, 9796-9810.	4.0	6
82	Side-On $\text{OMoF}_2(\text{I}^2\text{-SO})$ and $\text{OWF}_2(\text{I}^2\text{-SO})$ Complexes Featuring Peroxo-Like Sulfur Monoxide Ligand. <i>Inorganic Chemistry</i> , 2019, 58, 15652-15658.	4.0	6
83	The oxidation of UF_4 in FLiNaK melt and its electrolysis. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 319, 899-906.	1.5	6
84	End-On Cyanogen Complexes of Iridium, Palladium, and Platinum. <i>Inorganic Chemistry</i> , 2020, 59, 6489-6495.	4.0	6
85	Inhibition effect of ZrF_4 on UO_2 precipitation in the LiF-BaF_2 molten salt. <i>RSC Advances</i> , 2021, 11, 18708-18716.	3.6	6
86	Matrix Infrared Spectra of Manganese and Iron Isocyanide Complexes. <i>Journal of Physical Chemistry A</i> , 2017, 121, 8835-8842.	2.5	5
87	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.	2.9	5
88	Tetrapositive Hafnium-Diamide Complexes in the Gas Phase: Formation, Structure and Reaction. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 2623-2631.	2.8	5
89	Sulfur-substituted uranyl stabilized by fluoride ligands: matrix preparation of $\text{U}(\text{O})(\text{S})\text{F}_2$ via oxidation of $\text{U}(\text{O})$ by SOF_2 . <i>Chemical Communications</i> , 2020, 56, 6782-6785.	4.1	5
90	Gas-phase synthesis and structure of thorium benzyne complexes. <i>Chemical Communications</i> , 2022, 58, 7018-7021.	4.1	5

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91	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.	2.5	4
92	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.	1.5	4
93	Bidentate SO_2 Complexes of Zirconium and Hafnium Difluorides with Highly Activated S=O Bonds. <i>Journal of Physical Chemistry A</i> , 2019, 123, 9567-9572.	2.5	4
94	End-On Oxygen-Bound Sulfur Monoxide Complex of Titanium Oxyfluoride. <i>Inorganic Chemistry</i> , 2019, 58, 11801-11806.	4.0	4
95	Vanadium, niobium and tantalum complexes with terminal sulfur radical ligands. <i>Dalton Transactions</i> , 2021, 50, 11300-11306.	3.3	4
96	Formation of Cerium and Neodymium Isocyanides in the Reactions of Cyanogen with Ce and Nd Atoms in Argon Matrices. <i>Journal of Physical Chemistry A</i> , 2019, 123, 8208-8219.	2.5	3
97	Communication—Electrochemical Behavior of UO_2^{2+} and Its Electrodeposition from UO_2F_2 -FLiBe Melt. <i>Journal of the Electrochemical Society</i> , 2019, 166, D189-D191.	2.9	3
98	Synthesis of a dinuclear europium(iii) complex through deprotonation and oxygen-atom transfer of trimethylamine N-oxide. <i>Dalton Transactions</i> , 2019, 48, 17158-17162.	3.3	3
99	Photoluminescence of LaI_3 switched on and off by association and dissociation of non-luminescent tetrahydrofuran. <i>Dalton Transactions</i> , 2021, 50, 3797-3800.	3.3	3
100	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.	2.8	2
101	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, , .	2.0	2
102	Carbon—sulfur bond strength in methanesulfinate and benzenesulfinate ligands directs decomposition of $Np(v)$ and $Pu(v)$ coordination complexes. <i>Dalton Transactions</i> , 2020, 49, 3293-3303.	3.3	1
103	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.	2.9	1
104	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.	2.0	0
105	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.	13.8	0
106	Oxo-sulfido molybdenum and tungsten fluorides with M=O and M=S multiple bonds. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 19760-19765.	2.8	0