

# Tabitha M Cook

## List of Publications by Year in descending order

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Solution NMR of transition metal complexes. , 2023, , 660-744.		1
2	Magnetic anisotropy of two tetrahedral Co( $\text{Co}(\text{PPh}_3)_2\text{X}_2$ )-halide complexes with triphenylphosphine ligands. Dalton Transactions, 2022, 51, 7530-7538.	3.3	5
3	Magnetic anisotropies and slow magnetic relaxation of three tetrahedral tetrakis(pseudohalido)cobalt( $\text{Co}(\text{PPh}_3)_2\text{X}_2$ ) complexes. New Journal of Chemistry, 2021, 45, 16852-16861.	2.8	2
4	Applying Unconventional Spectroscopies to the Single-Molecule Magnets, $\text{Co}(\text{PPh}_3)_3\text{X}_2$ ( $\text{X}=\text{Cl}, \text{Br}, \text{I}$ ): Unveiling Magnetic Transitions and Spin-Phonon Coupling. Chemistry - A European Journal, 2021, 27, 11110-11125.	3.3	21
5	Advanced Magnetic Resonance Studies of Tetraphenylporphyrinatoiron(III) Halides. Applied Magnetic Resonance, 2020, 51, 1411-1432.	1.2	6
6	Inter-Kramers Transitions and Spin-Phonon Couplings in a Lanthanide-Based Single-Molecule Magnet. Inorganic Chemistry, 2020, 59, 5218-5230.	4.0	25
7	Slow Magnetic Relaxation in a Mononuclear Five-Coordinate Cu(II) Complex. European Journal of Inorganic Chemistry, 2019, 2019, 4653-4659.	2.0	19
8	Spectroscopic Studies of the Magnetic Excitation and Spin-Phonon Couplings in a Single-Molecule Magnet. Chemistry - A European Journal, 2019, 25, 15846-15857.	3.3	22
9	Zero-Field Slow Magnetic Relaxation and Hysteresis Loop in Four-Coordinate $\text{Co}(\text{Co}(\text{PPh}_3)_2\text{X}_2)$ Single-Ion Magnets with Strong Easy-Axis Anisotropy. Inorganic Chemistry, 2019, 58, 12555-12564.	4.0	36
10	Magnetic anisotropy and slow magnetic relaxation processes of cobalt( $\text{Co}(\text{PPh}_3)_2\text{X}_2$ )-pseudohalide complexes. Dalton Transactions, 2019, 48, 10743-10752.	3.3	23
11	Probing Magnetic Excitations in Coll Single-Molecule Magnets by Inelastic Neutron Scattering. European Journal of Inorganic Chemistry, 2019, 2019, 1055-1055.	2.0	0
12	Neutron Instruments for Research in Coordination Chemistry. European Journal of Inorganic Chemistry, 2019, 2019, 1065-1089.	2.0	29
13	Probing Magnetic Excitations in $\text{Co}(\text{Co}(\text{PPh}_3)_2\text{X}_2)$ Single-Molecule Magnets by Inelastic Neutron Scattering. European Journal of Inorganic Chemistry, 2019, 2019, 1119-1127.	2.0	14
14	Synthesis, Structures, and Catalytic Properties of Dinuclear Iridium(I) Complexes with a Hexadentate Macrocyclic Diamine-Tetracarbene Ligand. European Journal of Inorganic Chemistry, 2018, 2018, 1595-1602.	2.0	5
15	Synthesis, structural characterization and NMR studies of group 10 metal complexes with macrocyclic amine N-heterocyclic carbene ligands. Dalton Transactions, 2018, 47, 4282-4292.	3.3	4
16	Synthesis and characterization of $\text{Ag}(\text{Ag}(\text{PPh}_3)_2\text{X}_2)$ and $\text{Au}(\text{Au}(\text{PPh}_3)_2\text{X}_2)$ complexes with macrocyclic hybrid amine N-heterocyclic carbene ligands. New Journal of Chemistry, 2018, 42, 4700-4713.	2.8	13
17	Luminescent Mechanochromic Dinuclear Cu(I) Complexes with Macrocyclic Diamine-Tetracarbene Ligands. Inorganic Chemistry, 2018, 57, 13618-13630.	4.0	53
18	Spin-phonon couplings in transition metal complexes with slow magnetic relaxation. Nature Communications, 2018, 9, 2572.	12.8	93

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19	Syntheses and characterization of hepta-coordinated Group 4 amidinate complexes. Dalton Transactions, 2018, 47, 11030-11040.	3.3	6
20	Optical probe for the analysis of trace indole in shrimp. Analytical Biochemistry, 2018, 557, 104-110.	2.4	6
21	Novel Pretreatments of Whole Blood Using Fenton-Like Processes for Trace Metal Analysis. Ozone: Science and Engineering, 2017, 39, 61-66.	2.5	0
22	Density Functional Theory Study of the Reaction between d0 Tungsten Alkylidyne Complexes and H <sub>2</sub> O: Addition versus Hydrolysis. Inorganic Chemistry, 2017, 56, 7111-7119.	4.0	8
23	Synthesis and structural characterization of metal complexes with macrocyclic tetracarbene ligands. New Journal of Chemistry, 2017, 41, 13442-13453.	2.8	14
24	Metal Complexes with a Hexadentate Macrocyclic Diamine-Tetracarbene Ligand. Inorganic Chemistry, 2017, 56, 11917-11928.	4.0	19
25	Slow Magnetic Relaxations in Cobalt(II) Tetranitrate Complexes. Studies of Magnetic Anisotropy by Inelastic Neutron Scattering and High-Frequency and High-Field EPR Spectroscopy. Inorganic Chemistry, 2016, 55, 12603-12617.	4.0	39
26	Highly sensitive detection of hexavalent chromium utilizing a sol-gel/carbon nanotube modified electrode. Journal of Electroanalytical Chemistry, 2016, 781, 120-125.	3.8	17
27	Bismuth-Based, Disposable Sensor for the Detection of Hydrogen Sulfide Gas. Analytical Chemistry, 2016, 88, 1553-1558.	6.5	47
28	Direct analysis of palladium in active pharmaceutical ingredients by anodic stripping voltammetry. Analytica Chimica Acta, 2016, 914, 47-52.	5.4	10
29	Product in indole detection by Ehrlich's reagent. Analytical Biochemistry, 2015, 484, 21-23.	2.4	13
30	Syntheses and Characterization of Tantalum Alkyl Imides and Amide Imides. DFT Studies of Unusual $\eta^5$ -SiMe <sub>3</sub> Abstraction by an Amide Ligand. Organometallics, 2015, 34, 5687-5696.	2.3	13
31	Magnetic Transitions in Iron Porphyrin Halides by Inelastic Neutron Scattering and Ab Initio Studies of Zero-Field Splittings. Inorganic Chemistry, 2015, 54, 9790-9801.	4.0	49
32	Direct determination of cadmium and lead in pharmaceutical ingredients using anodic stripping voltammetry in aqueous and DMSO/water solutions. Analytica Chimica Acta, 2015, 893, 25-33.	5.4	55
33	Slow Magnetic Relaxation in Mononuclear Octahedral Manganese(III) Complexes with Dibenzoilmethanide Ligands. European Journal of Inorganic Chemistry, 2015, 2015, 271-278.	2.0	40
34	Reactions of zirconium amide amidinates with dioxygen. Observation of an unusual peroxo intermediate in the formation of oxo compounds. Chemical Communications, 2014, 50, 10517.	4.1	9
35	Size-controlled synthesis and magnetic properties of copper germanate nanorods. Observation of size-induced quenching of the spin-Peierls transition. CrystEngComm, 2014, 16, 850-857.	2.6	8
36	Reactions of d0 tungsten alkylidyne complexes with O <sub>2</sub> or H <sub>2</sub> O. Formation of an oxo siloxy complex through unusual silyl migrations. Chemical Communications, 2013, 49, 9555.	4.1	22

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37	Improved Bi film wrapped single walled carbon nanotubes for ultrasensitive electrochemical detection of trace Cr(VI). <i>Electrochimica Acta</i> , 2013, 113, 686-693.	5.2	52
38	Microwave-assisted hydrothermal synthesis of cube-like Ag-Ag <sub>2</sub> MoO <sub>4</sub> with visible-light photocatalytic activity. <i>Science China Chemistry</i> , 2013, 56, 443-450.	8.2	77
39	Bi <sub>2</sub> MoO <sub>6</sub> microstructures: controllable synthesis, growth mechanism, and visible-light-driven photocatalytic activities. <i>CrystEngComm</i> , 2013, 15, 498-508.	2.6	83
40	Reactions of Group 4 Amide Guanidinate with Dioxygen or Water. Studies of the Formation of Oxo Products. <i>Inorganic Chemistry</i> , 2013, 52, 11409-11421.	4.0	11
41	Preparation of Zirconium Guanidinate Complexes from the Direct Insertion of a Carbodiimine and Aminolysis Using a Guanidine. Comparison of the Reactions. <i>Organometallics</i> , 2012, 31, 3443-3446.	2.3	11
42	Microwave-assisted hydrothermal synthesis, growth mechanism and photocatalytic properties of pancake-like Cd(OH) <sub>2</sub> superstructures. <i>CrystEngComm</i> , 2012, 14, 3495.	2.6	20
43	Blue-Green Luminescent Rhenium(I) Tricarbonyl Complexes with Pyridine-Functionalized N-Heterocyclic Carbene Ligands. <i>Organometallics</i> , 2012, 31, 3829-3835.	2.3	53
44	Syntheses, Structures, and Characteristics of Four New Metal-Organic Frameworks Based on Flexible Tetrapyridines and Aromatic Polycarboxylate Acids. <i>Crystal Growth and Design</i> , 2012, 12, 3426-3435.	3.0	74
45	From China to the world: <i>Science China Chemistry</i> celebrates the International Year of Chemistry. <i>Science China Chemistry</i> , 2012, 55, 195-200.	8.2	4
46	Microwave-assisted solution-phase preparation of flower-like Bi <sub>2</sub> WO <sub>6</sub> and its visible-light-driven photocatalytic properties. <i>CrystEngComm</i> , 2011, 13, 306-311.	2.6	100
47	Unexpected formation of a trinuclear complex containing a Ta(IV)-Ta(IV) bond in the reactions of ButNi-Ta(NMe <sub>2</sub> ) <sub>3</sub> with silanes. <i>Chemical Communications</i> , 2011, 47, 8685.	4.1	13
48	Iridium(I) and Rhodium(I) Carbonyl Complexes with the Bis(3- <i>tert</i> -butylimidazol-2-ylidene)borate Ligand and Unusual <sup>1</sup> H Fluorination. <i>Organometallics</i> , 2011, 30, 2006-2011.	2.3	13
49	Persimmon-like (BiO) <sub>2</sub> CO <sub>3</sub> microstructures: hydrothermal preparation, photocatalytic properties and their conversion into Bi <sub>2</sub> S <sub>3</sub> . <i>CrystEngComm</i> , 2011, 13, 1939-1945.	2.6	101
50	Fast preparation and growth mechanism of erythrocyte-like Cd <sub>2</sub> Ge <sub>2</sub> O <sub>6</sub> superstructures via a microwave-hydrothermal process. <i>CrystEngComm</i> , 2011, 13, 2464.	2.6	26
51	Unusual reaction of a tungsten alkylidyne complex with water. Formation, characterization, and crystal structures of oxo trimers. <i>Science China Chemistry</i> , 2011, 54, 1903-1908.	8.2	10
52	China celebrates the International Year of Chemistry. <i>Science China Chemistry</i> , 2011, 54, 2016-2017.	8.2	2
53	Synthesis, Characterization, and Crystal Structures of Metal Amide Cage Complexes Containing a M <sub>4</sub> O <sub>4</sub> (M = Nb, Ta) Core Unit. <i>Journal of Cluster Science</i> , 2010, 21, 325-337.	3.3	13
54	Syntheses, Structures, and Photoluminescence of Five New Metal-Organic Frameworks Based on Flexible Tetrapyridines and Aromatic Polycarboxylate Acids. <i>Crystal Growth and Design</i> , 2010, 10, 2676-2684.	3.0	102

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55	Syntheses, Structures, and Photochemical Properties of Six New Metal-Organic Frameworks Based on Aromatic Dicarboxylate Acids and V-Shaped Imidazole Ligands. <i>Crystal Growth and Design</i> , 2010, 10, 4135-4142.	3.0	88
56	Microwave-assisted solvothermal synthesis and growth mechanism of $\text{WO}_3 \cdot x\text{H}_2\text{O}$ hierarchical microstructures. <i>CrystEngComm</i> , 2010, 12, 1153-1158.	2.6	41
57	$\text{Ta}(\text{NSiMe}_3)_2[\text{N}(\text{SiMe}_3)_2](\text{CH}_2\text{Bu}^t)_2$ . Preferential Oxygen Insertion in Its Reaction with $\text{O}_2$ and a Ligand Exchange in the Alkoxide $\text{Ta}(\text{NSiMe}_3)_2[\text{N}(\text{SiMe}_3)_2](\text{OCH}_2\text{Bu}^t)_2$ . <i>Organometallics</i> , 2010, 29, 5570-5581.	2.3	18
58	Formation of Aminoxy and Oxo Complexes from the Reaction of $\text{Nb}(\text{NMe}_2)_5$ with $\text{O}_2$ and the Crystal Structure of $\text{Nb}(\text{NEt}_2)_5$ . <i>Inorganic Chemistry</i> , 2010, 49, 4017-4022.	4.0	21
59	Microwave-assisted preparation and photocatalytic properties of $\text{Zn}_2\text{GeO}_4$ nanorod bundles. <i>CrystEngComm</i> , 2010, 12, 3201.	2.6	38
60	Pancake-like $\text{Fe}_2(\text{MoO}_4)_3$ microstructures: microwave-assisted hydrothermal synthesis, magnetic and photocatalytic properties. <i>New Journal of Chemistry</i> , 2010, 34, 2027.	2.8	63
61	Microwave-assisted solution-phase preparation and growth mechanism of $\text{FeMoO}_4$ hierarchical hollow spheres. <i>CrystEngComm</i> , 2010, 12, 207-210.	2.6	44
62	Optical and electrochemical sol-gel sensors for inorganic species. <i>Science in China Series B: Chemistry</i> , 2009, 52, 1777-1788.	0.8	8
63	Synthesis, characterization and crystal structure of zirconium complex containing amidinate, guanidinate and amide ligand sets. <i>Inorganica Chimica Acta</i> , 2009, 362, 4251-4254.	2.4	7
64	Reaction of a Tungsten Alkylidyne Complex with a Chelating Diphosphine. $\text{H}$ -Hydrogen Migration in the Intermediates and Formation of an Alkyl Alkylidene Alkylidyne Complex. <i>Organometallics</i> , 2009, 28, 1295-1302.	2.3	11
65	Preparation and Use of $\text{Ta}(\text{CD}_2\text{Bu})_5$ To Probe the Formation of $(\text{Bu}^t\text{CD}_2)_3\text{Ta}^{\text{IV}}\text{CDBu}^t$ . Kinetic and Mechanistic Studies of the Conversion of Pentaneopentyltantalum to the Archetypical Alkylidene Complex. <i>Journal of the American Chemical Society</i> , 2009, 131, 8246-8251.	13.7	26
66	Preparation and Characterization of Flowerlike $\text{Y}_2(\text{OH})_5\text{NO}_3 \cdot 1.5\text{H}_2\text{O}$ and $\text{Y}_2\text{O}_3$ and Their Efficient Removal of Cr(VI) from Aqueous Solution. <i>Journal of Physical Chemistry C</i> , 2009, 113, 3461-3466.	3.1	28
67	Reactions of Oxygen with Metallaheterocyclic Alkyl Amide Complexes. Selective Insertion of Oxygen into Metal-Carbon Bonds. <i>Organometallics</i> , 2009, 28, 6642-6645.	2.3	13
68	Synthesis and Characterization of Siloxy, Aminoxy, and Oxo Complexes from the Reaction of a Tantalum Amide Silyl Complex with Oxygen. <i>Inorganic Chemistry</i> , 2009, 48, 3073-3079.	4.0	23
69	Synthesis and Characterization of Group 4 Amide Chloride and Amide Imide Complexes. <i>Organometallics</i> , 2009, 28, 4269-4275.	2.3	20
70	Preparation, Characterization, and Catalytic Properties of Ruthenium(II) Nitrosyl Complexes with $\text{N}$ -Diimine Ligands. <i>Organometallics</i> , 2009, 28, 6687-6694.	2.3	17
71	Synthesis and Characterization of Group 4 Amidinate Amide Complexes $\text{M}[\text{CyNC}(\text{Me})\text{NCy}]_2(\text{NR})_2$ ( $\text{R} = \text{Me}$ , $\text{M} = \text{Ti}$ , $\text{Zr}$ , $\text{Hf}$ ; $\text{R} = \text{Et}$ , $\text{M} = \text{Zr}$ ). <i>Organometallics</i> , 2009, 28, 3088-3092.	2.3	32
72	Netlike Nanostructures of $\text{Zn}(\text{OH})\text{F}$ and $\text{ZnO}$ : Synthesis, Characterization, and Properties. <i>Crystal Growth and Design</i> , 2008, 8, 1412-1417.	3.0	52

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73	Preparation of Tungsten Alkyl Alkylidene Alkylidyne Complexes and Kinetic Studies of Their Formation. <i>Journal of the American Chemical Society</i> , 2007, 129, 7277-7283.	13.7	21
74	Reaction of Ta(NMe <sub>2</sub> ) <sub>5</sub> with O <sub>2</sub> : Formation of Aminoxy and Unusual (Aminomethyl)amide Oxo Complexes and Theoretical Studies of the Mechanistic Pathways. <i>Journal of the American Chemical Society</i> , 2007, 129, 14408-14421.	13.7	41
75	Controlled-release polymers for delivery of dipyrityls and tetraalkyl ammonium hydroxide. <i>Journal of Applied Polymer Science</i> , 2007, 104, 1043-1048.	2.6	5
76	Selective Synthesis and Characterization of Nanocrystalline EuF <sub>3</sub> with Orthorhombic and Hexagonal Structures. <i>Crystal Growth and Design</i> , 2006, 6, 1972-1974.	3.0	72
77	Tungsten Alkyl Alkylidyne and Bis-alkylidene Complexes. Preparation and Kinetic and Thermodynamic Studies of Their Unusual Exchanges. <i>Organometallics</i> , 2006, 25, 427-434.	2.3	24
78	Organofunctional Sol-Gel Materials for Toxic Metal Separation. <i>ACS Symposium Series</i> , 2006, , 223-237.	0.5	6
79	A Tungsten Silyl Alkylidyne Complex and Its Bis(alkylidene) Tautomer. Their Interconversion and an Unusual Silyl Migration in Their Reaction with Dioxygen. <i>Organometallics</i> , 2005, 24, 1214-1224.	2.3	33
80	Disilyl Complexes of Zirconium, Hafnium, and Tantalum. Their Synthesis, Characterization, and Exchanges with Silyl Anions. <i>Organometallics</i> , 2005, 24, 4190-4197.	2.3	17
81	Reactions of d <sup>0</sup> Group 4 Amides with Dioxygen. Preparation of Unusual Oxo Aminoxy Complexes and Theoretical Studies of Their Formation. <i>Journal of the American Chemical Society</i> , 2005, 127, 5204-5211.	13.7	39
82	A method for the preparation of transparent mesoporous silica sol-gel monoliths containing grafted organic functional groups. <i>Journal of Materials Chemistry</i> , 2005, 15, 2356.	6.7	27
83	A Trisilyl Zincate Containing Bidentate [(Me <sub>3</sub> Si) <sub>2</sub> Si(CH <sub>2</sub> ) <sub>2</sub> Si(SiMe <sub>3</sub> ) <sub>2</sub> ] <sub>2</sub> -Ligands. <i>Organometallics</i> , 2004, 23, 5910-5912.	2.3	8
84	Transition-Metal Silyl Complexes and Chemistry in the Reactions of Silanes with Transition-Metal Complexes. <i>Organometallics</i> , 2004, 23, 2210-2224.	2.3	37
85	An Unusual Exchange between Alkylidyne Alkyl and Bis(alkylidene) Tungsten Complexes Promoted by Phosphine Coordination: A Kinetic, Thermodynamic, and Theoretical Studies. <i>Journal of the American Chemical Society</i> , 2004, 126, 10208-10209.	13.7	40
86	Unprecedented Homochiral Olefin-Copper(I) 2D Coordination Polymer Grid Based on Chiral Ammonium Salts as Building Blocks. <i>Organometallics</i> , 2003, 22, 4396-4398.	2.3	24
87	The First Highly Stable Homochiral Olefin-Copper(I) 2D Coordination Polymer Grid Based on Quinine as a Building Block. <i>Organometallics</i> , 2003, 22, 2814-2816.	2.3	47
88	Reactivity of the [MoS <sub>4</sub> Cu <sub>6</sub> Br <sub>8</sub> ] <sup>4-</sup> anion toward polyarylphosphorus ligands: synthesis, characterization and nonlinear optical properties of [MoS <sub>4</sub> (Cudppf) <sub>2</sub> ]-2DMF-CH <sub>3</sub> CN and [MoS <sub>4</sub> Cu <sub>2</sub> (Ph <sub>2</sub> PPy) <sub>4</sub> ]. <i>Dalton Transactions RSC</i> , 2002, , 1980-1984.	2.3	24
89	2D Molecular Square Grid with Strong Blue Fluorescent Emission: A Complex of Norfloxacin with Zinc(II). <i>Inorganic Chemistry</i> , 2001, 40, 4075-4077.	4.0	181