

Timothy Cook

List of Publications by Year in descending order

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67
papers

12,171
citations

109137

35
h-index

102304

66
g-index

68
all docs

68
docs citations

68
times ranked

14275
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar Energy Supply and Storage for the Legacy and Nonlegacy Worlds. <i>Chemical Reviews</i> , 2010, 110, 6474-6502.	23.0	2,676
2	Metal-Organic Frameworks and Self-Assembled Supramolecular Coordination Complexes: Comparing and Contrasting the Design, Synthesis, and Functionality of Metal-Organic Materials. <i>Chemical Reviews</i> , 2013, 113, 734-777.	23.0	2,588
3	Recent Developments in the Preparation and Chemistry of Metallacycles and Metallacages via Coordination. <i>Chemical Reviews</i> , 2015, 115, 7001-7045.	23.0	1,540
4	Highly emissive platinum(II) metallacages. <i>Nature Chemistry</i> , 2015, 7, 342-348.	6.6	597
5	Biomedical and Biochemical Applications of Self-Assembled Metallacycles and Metallacages. <i>Accounts of Chemical Research</i> , 2013, 46, 2464-2474.	7.6	438
6	Responsive Supramolecular Polymer Metallogel Constructed by Orthogonal Coordination-Driven Self-Assembly and Host/Guest Interactions. <i>Journal of the American Chemical Society</i> , 2014, 136, 4460-4463.	6.6	265
7	A Suite of Tetraphenylethylene-Based Discrete Organoplatinum(II) Metallacycles: Controllable Structure and Stoichiometry, Aggregation-Induced Emission, and Nitroaromatics Sensing. <i>Journal of the American Chemical Society</i> , 2015, 137, 15276-15286.	6.6	260
8	Supramolecular cancer nanotheranostics. <i>Chemical Society Reviews</i> , 2021, 50, 2839-2891.	18.7	257
9	Hierarchical Self-Assembly: Well-Defined Supramolecular Nanostructures and Metallohydrogels via Amphiphilic Discrete Organoplatinum(II) Metallacycles. <i>Journal of the American Chemical Society</i> , 2013, 135, 14036-14039.	6.6	216
10	Highly Emissive Self-Assembled BODIPY-Platinum Supramolecular Triangles. <i>Journal of the American Chemical Society</i> , 2018, 140, 7730-7736.	6.6	213
11	Light-Emitting Superstructures with Anion Effect: Coordination-Driven Self-Assembly of Pure Tetraphenylethylene Metallacycles and Metallacages. <i>Journal of the American Chemical Society</i> , 2016, 138, 4580-4588.	6.6	211
12	A discrete organoplatinum(II) metallacage as a multimodality theranostic platform for cancer photochemotherapy. <i>Nature Communications</i> , 2018, 9, 4335.	5.8	197
13	Formation of [3]Catenanes from 10 Precursors via Multicomponent Coordination-Driven Self-Assembly of Metallarectangles. <i>Journal of the American Chemical Society</i> , 2013, 135, 2084-2087.	6.6	164
14	Tetraphenylethene-based highly emissive metallacage as a component of theranostic supramolecular nanoparticles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13720-13725.	3.3	161
15	A Phosphorus Phthalocyanine Formulation with Intense Absorbance at 1000 nm for Deep Optical Imaging. <i>Theranostics</i> , 2016, 6, 688-697.	4.6	152
16	A Self-Assembled Cofacial Cobalt Porphyrin Prism for Oxygen Reduction Catalysis. <i>Journal of the American Chemical Society</i> , 2017, 139, 1424-1427.	6.6	151
17	Self-Assembly of Triangular and Hexagonal Molecular Necklaces. <i>Journal of the American Chemical Society</i> , 2014, 136, 5908-5911.	6.6	134
18	Engineering Functionalization in a Supramolecular Polymer: Hierarchical Self-Organization of Triply Orthogonal Non-covalent Interactions on a Supramolecular Coordination Complex Platform. <i>Journal of the American Chemical Society</i> , 2016, 138, 806-809.	6.6	134

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19	Polyoxovanadate-alkoxide clusters as multi-electron charge carriers for symmetric non-aqueous redox flow batteries. <i>Chemical Science</i> , 2018, 9, 1692-1699.	3.7	129
20	Photoinduced transformations of stiff-stilbene-based discrete metallacycles to metallosupramolecular polymers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8717-8722.	3.3	127
21	Formation of Halogen Bond-Based 2D Supramolecular Assemblies by Electric Manipulation. <i>Journal of the American Chemical Society</i> , 2015, 137, 6128-6131.	6.6	117
22	In vivo anticancer activity of rhomboidal Pt(II) metallacycles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18448-18453.	3.3	101
23	Self-Assembly of Chiral Metallacycles and Metallacages from a Directionally Adaptable BINOL-Derived Donor. <i>Journal of the American Chemical Society</i> , 2015, 137, 11896-11899.	6.6	94
24	Metal ⁺ -Halide Bond Photoactivation from a Pt ^{III} -Au ^{II} Complex. <i>Journal of the American Chemical Society</i> , 2007, 129, 10094-10095.	6.6	74
25	Polymer-MOF Hybrid Composites with High Porosity and Stability through Surface-Selective Ligand Exchange. <i>Chemistry of Materials</i> , 2018, 30, 8639-8649.	3.2	71
26	Photophysical and Computational Investigations of Bis(phosphine) Organoplatinum(II) Metallacycles. <i>Journal of the American Chemical Society</i> , 2012, 134, 10607-10620.	6.6	70
27	Tunable Visible Light Emission of Self-Assembled Rhomboidal Metallacycles. <i>Journal of the American Chemical Society</i> , 2013, 135, 13676-13679.	6.6	70
28	Photophysical Properties of Self-Assembled Multinuclear Platinum Metallacycles with Different Conformational Geometries. <i>Journal of the American Chemical Society</i> , 2013, 135, 6694-6702.	6.6	67
29	Chlorine Photoelimination from a Diplatinum Core: Circumventing the Back Reaction. <i>Journal of the American Chemical Society</i> , 2009, 131, 28-29.	6.6	66
30	Coordination-Driven Self-Assembly in Polymer-Inorganic Hybrid Materials. <i>Chemistry of Materials</i> , 2020, 32, 3680-3700.	3.2	62
31	Photophysical Properties of a Post-Self-Assembly Host/Guest Coordination Cage: Visible Light Driven Core-to-Cage Charge Transfer. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1942-1947.	2.1	56
32	Synthesis and photophysical studies of self-assembled multicomponent supramolecular coordination prisms bearing porphyrin faces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9390-9395.	3.3	50
33	Self-Assembly of [3]Catenanes and a [4]Molecular Necklace Based on a Cryptand/Paraquat Recognition Motif. <i>Organic Letters</i> , 2015, 17, 2804-2807.	2.4	46
34	Mixed-matrix materials using metal-organic polyhedra with enhanced compatibility for membrane gas separation. <i>Dalton Transactions</i> , 2018, 47, 7905-7915.	1.6	42
35	Tuning the Activity of Heterogeneous Cofacial Cobalt Porphyrins for Oxygen Reduction Electrocatalysis through Self-Assembly. <i>Chemistry - A European Journal</i> , 2018, 24, 10984-10987.	1.7	41
36	Atomically Precise Prediction of 2D Self-Assembly of Weakly Bonded Nanostructures: STM Insight into Concentration-Dependent Architectures. <i>Small</i> , 2016, 12, 343-350.	5.2	33

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37	Understanding the Effects of Coordination and Self-Assembly on an Emissive Phenothiazine. <i>Journal of the American Chemical Society</i> , 2019, 141, 3717-3722.	6.6	33
38	Concentration-dependent charge-discharge characteristics of non-aqueous redox flow battery electrolyte combinations. <i>Electrochimica Acta</i> , 2018, 261, 296-306.	2.6	32
39	Halogen Oxidation and Halogen Photoelimination Chemistry of a Platinum-Rhodium Heterobimetallic Core. <i>Inorganic Chemistry</i> , 2012, 51, 5152-5163.	1.9	31
40	Tuning the Reactivity of Cofacial Porphyrin Prisms for Oxygen Reduction Using Modular Building Blocks. <i>Journal of the American Chemical Society</i> , 2021, 143, 1098-1106.	6.6	28
41	Characterization of a BODIPY Dye as an Active Species for Redox Flow Batteries. <i>ChemSusChem</i> , 2016, 9, 3317-3323.	3.6	27
42	Phosphorescent Decanuclear Bimetallic Pt ₆ M ₄ (M = Zn, Fe) Tetrahedral Cages. <i>Inorganic Chemistry</i> , 2017, 56, 4258-4262.	1.9	26
43	Coordination-Driven Self-Assembly of Ruthenium Polypyridyl Nodes Resulting in Emergent Photophysical and Electrochemical Properties. <i>Inorganic Chemistry</i> , 2018, 57, 3587-3595.	1.9	26
44	An Fe ^{III} Azamacrocyclic Complex as a pH-Tunable Catholyte and Anolyte for Redox Flow Battery Applications. <i>Chemistry - A European Journal</i> , 2017, 23, 15327-15331.	1.7	25
45	Repurposing the Industrial Dye Methylene Blue as an Active Component for Redox Flow Batteries. <i>ChemElectroChem</i> , 2018, 5, 3437-3442.	1.7	24
46	Photophysical Enhancement of Triplet Emitters by Coordination-Driven Self-Assembly. <i>Chemistry - A European Journal</i> , 2017, 23, 4532-4536.	1.7	23
47	Interpenetrating networks of mixed matrix materials comprising metal-organic polyhedra for membrane CO ₂ capture. <i>Journal of Membrane Science</i> , 2020, 606, 118122.	4.1	22
48	Transport and Electron Transfer Kinetics of Polyoxovanadate-Alkoxide Clusters. <i>Journal of the Electrochemical Society</i> , 2019, 166, A464-A472.	1.3	19
49	Progress in the Design of Polyoxovanadate-Alkoxides as Charge Carriers for Nonaqueous Redox Flow Batteries. <i>Comments on Inorganic Chemistry</i> , 2019, 39, 51-89.	3.0	17
50	An Organofunctionalized Polyoxovanadium Cluster as a Molecular Model of Interfacial Pseudocapacitance. <i>ACS Applied Energy Materials</i> , 2019, 2, 8985-8993.	2.5	17
51	Photophysical Properties of Endohedral Amine-Functionalized Bis(phosphine) Pt(II) Complexes as Models for Emissive Metallacycles. <i>Inorganic Chemistry</i> , 2013, 52, 9254-9265.	1.9	16
52	Rhenium(I) Phosphazane Complexes for Electrocatalytic CO ₂ Reduction. <i>Organometallics</i> , 2019, 38, 1664-1676.	1.1	16
53	A Self-Assembled Iron(II) Metallacage as a Trap for Per- and Polyfluoroalkyl Substances in Water. <i>Inorganic Chemistry</i> , 2020, 59, 6697-6708.	1.9	15
54	Mixed-Component Catholyte and Anolyte Solutions for High-Energy Density Non-Aqueous Redox Flow Batteries. <i>Journal of the Electrochemical Society</i> , 2018, 165, A194-A200.	1.3	14

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55	Metal-Organic Polyhedron with Four Fe(III) Centers Producing Enhanced T ₁ Magnetic Resonance Imaging Contrast in Tumors. <i>Inorganic Chemistry</i> , 2022, 61, 2603-2611.	1.9	14
56	Increasing phosphorescent quantum yields and lifetimes of platinum-alkynyl complexes with extended conjugation. <i>Dalton Transactions</i> , 2017, 46, 9794-9800.	1.6	11
57	Gas transport characteristics of supramolecular networks of metal-coordinated highly branched Poly(ethylene oxide). <i>Journal of Membrane Science</i> , 2022, 644, 120063.	4.1	10
58	Sequestration of orange G and methylene blue from aqueous solutions using a Co(II) coordination polymer. <i>RSC Advances</i> , 2017, 7, 26532-26536.	1.7	9
59	Concentration-dependent supramolecular patterns of C ₃ and C ₂ symmetric molecules at the solid/liquid interface. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 168, 211-216.	2.5	9
60	Coordination-Driven Supramolecular Macromolecules via the Directional Bonding Approach. <i>Advances in Polymer Science</i> , 2013, , 229-248.	0.4	7
61	A Bis(dipyrrinato) Motif as a Building Block for Polynuclear Rhenium(I) Architectures. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 4055-4060.	1.0	6
62	Synthesis, Characterization, and Catalytic Studies of Dinuclear ⁸ Metal-Phosphazane Complexes. <i>Inorganic Chemistry</i> , 2018, 57, 5692-5700.	1.9	6
63	Coordination-Driven Self-Assembly of Silver(I) and Gold(I) Rings: Synthesis, Characterization, and Photophysical Studies. <i>Frontiers in Chemistry</i> , 2019, 7, 567.	1.8	5
64	Phosphorescent organoplatinum(II) D _{2h} metallacycles: synthesis, self-assembly, and photophysical properties. <i>Journal of Coordination Chemistry</i> , 2016, 69, 1914-1923.	0.8	4
65	Multicomponent Coordination-Driven Self-Assembly of Fused C _{3v} Polygons. <i>Organometallics</i> , 2021, 40, 1-5.	1.1	4
66	Postsynthetic polymer-ligand exchange hybridization in M-MOF-74 composites. <i>Journal of Coordination Chemistry</i> , 2021, 74, 178-189.	0.8	3
67	Lowering the Symmetry of Cofacial Porphyrin Prisms for Selective Oxygen Reduction Electrocatalysis. <i>Inorganic Chemistry</i> , 0, , .	1.9	2