

K Travis Holman

List of Publications by Year in descending order

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72
papers

3,392
citations

136950

32
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138484

58
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83
all docs

83
docs citations

83
times ranked

3069
citing authors

#	ARTICLE	IF	CITATIONS
1	Metric Engineering of Soft Molecular Host Frameworks. <i>Accounts of Chemical Research</i> , 2001, 34, 107-118.	15.6	560
2	Anion Binding within the Cavity of π -Metalated Calixarenes. <i>Journal of the American Chemical Society</i> , 1997, 119, 6324-6335.	13.7	175
3	Shape-Selective Separation of Molecular Isomers with Tunable Hydrogen-Bonded Host Frameworks. <i>Chemistry of Materials</i> , 2001, 13, 3018-3031.	6.7	175
4	Laying traps for elusive prey: recent advances in the non-covalent binding of anions. <i>Chemical Communications</i> , 1996, , 1401.	4.1	173
5	The Generality of Architectural Isomerism in Designer Inclusion Frameworks. <i>Journal of the American Chemical Society</i> , 2001, 123, 4421-4431.	13.7	142
6	Selective Anion Encapsulation by a Metalated Cryptophane with a π -Acidic Interior. <i>Journal of the American Chemical Society</i> , 2005, 127, 16364-16365.	13.7	126
7	Architectural Diversity and Elastic Networks in Hydrogen-Bonded Host Frameworks: From Molecular Jaws to Cylinders. <i>Journal of the American Chemical Society</i> , 2007, 129, 14640-14660.	13.7	108
8	Inclusion of Neutral and Anionic Guests within the Cavity of π -Metalated Cyclotrimeratrylenes. <i>Journal of the American Chemical Society</i> , 1996, 118, 9567-9576.	13.7	105
9	Polyoxometal cations within polyoxometalate anions. Seven-coordinate uranium and zirconium heteroatom groups in $[(UO_2)_2(\mu_3-O)_4(\mu_2-H_2O)_2(P_2W_{15}O_{56})_4]^{32-}$ and $[Zr_4(\mu_3-O)_2(\mu_2-OH)_2(H_2O)_4 \cdot 3.6(P_2W_{16}O_{59})_2]^{14-}$. <i>Journal of Molecular Structure</i> , 2003, 656, 101-106.		105
10	An achiral form of the hexameric resorcin[4]arene capsule sustained by hydrogen bonding with alcohols. <i>Chemical Communications</i> , 2006, , 2144.	4.1	85
11	A new structural family of heteropolytungstate lacunary complexes with the uranyl, UO_2^{2+} , cation. <i>Dalton Transactions</i> , 2003, , 3009.	3.3	79
12	A Water-Soluble Xe@cryptophane-111 Complex Exhibits Very High Thermodynamic Stability and a Peculiar ^{129}Xe NMR Chemical Shift. <i>Journal of the American Chemical Society</i> , 2010, 132, 15505-15507.	13.7	79
13	Metric Engineering of Crystalline Inclusion Compounds by Structural Mimicry. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 1653-1656.	13.8	68
14	Isolation and Structure of an Imploded Cryptophane. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 5631-5635.	13.8	65
15	Enclathration and Confinement of Small Gases by the Intrinsically OD Porous Molecular Solid, $Me_4Si_4Me_2$. <i>Journal of the American Chemical Society</i> , 2016, 138, 4377-4392.	13.7	65
16	Manometric real-time studies of the mechanochemical synthesis of zeolitic imidazolate frameworks. <i>Chemical Science</i> , 2020, 11, 2141-2147.	7.4	64
17	Lamellae-Nanotube Isomerism in Hydrogen-Bonded Host Frameworks This work was supported by the National Science Foundation (DMR-9908627), in part by the MRSEC Program of the National Science Foundation (DMR-9809364), and the Natural Sciences and Engineering Research Council of Canada (postdoctoral fellowship for K.T.H.). <i>Angewandte Chemie - International Edition</i> , 2001, 40, 4045.	13.8	61
18	Reversible Phase Transitions within Self-Assembled Fibrillar Networks of R_n -18-(n-Alkylamino)octadecan-7-ols in Their Carbon Tetrachloride Gels. <i>Journal of the American Chemical Society</i> , 2011, 133, 15045-15054.	13.7	58

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19	A Cubic, 12-Connected, Microporous Metal-Organometallic Phosphate Framework Sustained by Truncated Tetrahedral Nodes. <i>Journal of the American Chemical Society</i> , 2011, 133, 1634-1637.	13.7	56
20	Many Simple Molecular Cavitands Are Intrinsically Porous (Zero-Dimensional Pore) Materials. <i>Chemistry of Materials</i> , 2015, 27, 7337-7354.	6.7	56
21	Hosting a Radioactive Guest: Binding of $^{99}\text{TcO}_4^-$ by a Metalated Cyclotrimeratrylene. <i>Journal of the American Chemical Society</i> , 1995, 117, 7848-7849.	13.7	47
22	Microporosity of a Guanidinium Organodisulfonate Hydrogen-Bonded Framework. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1997-2002.	13.8	45
23	Extreme Confinement of Xenon by Cryptophane-111 in the Solid State. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1471-1475.	13.8	43
24	Supramolecular chemistry of $[\{\text{M}(\text{CO})_3(\mu_3\text{-OH})\}_4]$ (M = Mn or Re): a modular approach to crystal engineering of superdiamondoid networks. <i>Journal of the Chemical Society Dalton Transactions</i> , 1995, , 2233-2243.	1.1	42
25	Extraction of Perchnetate and Perrhenate from Water with Deep-Cavity $[\text{CpFe}(\text{arene})]^+$ -Derivatized Cyclotrimeratrylenes. <i>Inorganic Chemistry</i> , 2002, 41, 6028-6031.	4.0	42
26	Closed-surface hexameric metal-organic nanocapsules derived from cavitand ligands. <i>Chemical Communications</i> , 2008, , 1404.	4.1	40
27	A soft coordination polymer derived from container molecule ligands. <i>Chemical Communications</i> , 2008, , 1407.	4.1	38
28	PF_6^- Hydrolysis as a route to unique uranium phosphate materials. <i>Chemical Communications</i> , 2008, , 6037.	4.1	37
29	Facile, Near-Quantitative, Aqueous Routes to Nearly Any $[\text{Cp}^*\text{Ru}(\text{6-arene})]\text{Cl}$ Compound. <i>Organometallics</i> , 2007, 26, 3049-3053.	2.3	34
30	Reproducible Synthesis and High Porosity of $\text{mer-Zn}(\text{Im})_2$ (ZIF-10): Exploitation of an Apparent Double-Eight Ring Template. <i>Journal of the American Chemical Society</i> , 2016, 138, 12017-12020.	13.7	34
31	Molecule-Constructed Microporous Materials: Long under Our Noses, Increasingly on Our Tongues, and Now in Our Bellies. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1228-1230.	13.8	33
32	Triprolinium 12-phosphomolybdate: Synthesis, crystal structure and properties of $[\text{C}_5\text{H}_{10}\text{NO}_2]_3[\text{PMo}_{12}\text{O}_{40}]\cdot 4.5\text{H}_2\text{O}$. <i>Polyhedron</i> , 2006, 25, 1567-1570.	2.2	32
33	Intra-Cavity Inclusion of $[\text{CpFe}(\text{arene})]^+$ Guests by Cyclotrimeratrylene. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 1736-1738.	4.4	31
34	Bowl vs Saddle Conformations in Cyclononatriene-Based Anion Binding Hosts. <i>Organometallics</i> , 1998, 17, 1732-1740.	2.3	31
35	One-dimensional coordination polymer $[\text{Co}(\text{H}_2\text{O})_4(\text{pyz})](\text{NO}_3)_2\cdot 2\text{H}_2\text{O}$ (pyz=pyrazine) with intra- and inter-chain H-bonds: structure, electronic spectral studies and magnetic properties. <i>Polyhedron</i> , 2005, 24, 221-228.	2.2	31
36	Deep cavity $[\text{CpFe}(\text{arene})]^+$ derivatized cyclotrimeratrylenes as anion hosts. <i>Chemical Communications</i> , 1998, , 2109-2110.	4.1	30

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37	Synthesis, Structural Characterization and Fluorescence Properties of Organoselenium Compounds Bearing a Ligand Containing Both Bulky and Nonbonding Groups [†] The First Observation of Both Intramolecular Se [†] -N and Se [†] -O Interactions in a Diselenide Structure. <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 1014-1023.	2.0	27
38	Use of a "Shoe-Last" Solid-State Template in the Mechanochemical Synthesis of High-Porosity RHO-Zinc Imidazolate. <i>Journal of the American Chemical Society</i> , 2018, 140, 10104-10108.	13.7	27
39	1-Hydroxybenzotriazole (HOBt) acidity, formation constant with different metals and thermodynamic parameters: Synthesis and characterization of some HOBt metal complexes " Crystal structures of two polymers: [Cu ₂ (H ₂ O) ₅ (OBt) ₂ ([†] / ₄ -OBt) ₂] [†] ·2H ₂ O·EtOH (1A) and [Cu([†] / ₄ -OBt)(HOBt)(OBt)(EtOH)] (1B). <i>Inorganica Chimica Acta</i> , 2009, 362, 3526-3540.	2.4	25
40	[([†] -5-C ₅ Me ₄ CH ₂ R)Ru([†] -6-arene)] [†] and [([†] -5-C ₅ Me ₄ CH ₂ R)Ru(CH ₃ CN) ₃] [†] Compounds Possessing Pendant Arms. <i>Organometallics</i> , 2008, 27, 1823-1833.	2.3	24
41	Polymorphism and Inclusion Properties of Three-Dimensional Metal-Organometallic Frameworks Derived from a Terephthalate Sandwich Compound. <i>Inorganic Chemistry</i> , 2009, 48, 6860-6872.	4.0	23
42	Building molecular frameworks with tailored pore structures. <i>Journal of Physical Organic Chemistry</i> , 2000, 13, 858-869.	1.9	20
43	Rim-functionalized cryptophane-111 derivatives via heterocapping, and their xenon complexes. <i>Chemical Communications</i> , 2014, 50, 15905-15908.	4.1	20
44	One-Dimensional Hydrogen Bonded Polymers Based on C-Methyl-Calix[4]Resorcinarene and a Crystal Engineering Design Strategy. <i>Crystal Engineering</i> , 1998, 1, 87-96.	0.7	19
45	Cryptophanes. , 2017, , 199-249.		18
46	Synthesis and Structure-Activity Relationship Studies of Small Molecule Disruptors of EWS-FLI1 Interactions in Ewing [†] s Sarcoma. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 10290-10303.	6.4	16
47	A Tale of Two Stoichiometrically Diverse Cocrystals. <i>Crystal Growth and Design</i> , 2015, 15, 3101-3104.	3.0	14
48	Microporosity of a Guanidinium Organodisulfonate Hydrogen-Bonded Framework. <i>Angewandte Chemie</i> , 2020, 132, 2013-2018.	2.0	14
49	Synthesis and Structure of a One-Dimensional Coordination Polymer Based Upon Tetracyanocalix[4]arene in the Cone Conformation. <i>Supramolecular Chemistry</i> , 2000, 12, 317-320.	1.2	11
50	Cryptophanes: Molecular Containers. , 2004, , 340-348.		11
51	A novel copper(II) complex of a tripodal ligand with phenolate-phenol interligand, intramolecular hydrogen bonding. <i>Dalton Transactions</i> , 2009, , 8111.	3.3	11
52	Crystal and molecular structure of [Mn(CO) ₃ ([†] / ₃ -OH)] ₄ . <i>Journal of Chemical Crystallography</i> , 1995, 25, 93-95.	1.1	10
53	Anion binding, aryl-extended cyclotriguaiacylenes and an aryl-bridged cryptophane that provides snapshots of a molecular gating mechanism. <i>Supramolecular Chemistry</i> , 2010, 22, 870-890.	1.2	9
54	Miniemulsion Synthesis of Metal-Oxo Cluster Containing Copolymer Nanobeads. <i>Langmuir</i> , 2011, 27, 12575-12584.	3.5	8

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55	Structures of selected transition metal complexes with 9-(2-hydroxyethyl)adenine: Potentiometric complexation and DFT studies. <i>Journal of Molecular Structure</i> , 2020, 1205, 127548.	3.6	7
56	Einschluss von [CpFe(II)(aren)] ⁺ -Kationen im schalenförmigen Hohlraum von Cyclotrimeratrylen. <i>Angewandte Chemie</i> , 1997, 109, 1840-1842.	2.0	6
57	Multiple nitrene insertions into metal-sulfur bonds of dithiocarbamate complexes: synthesis of sulfido-amido and zwitterionic tetraamido complexes. <i>Dalton Transactions</i> , 2005, , 2688.	3.3	4
58	Click-like Metalation/Demetalation of Aryl Iodides as a Means of Turning ON/OFF Halogen Bond Donor Functionality. <i>Angewandte Chemie - International Edition</i> , 2022, , .	13.8	4
59	<i>N</i> -(2-Bromophenyl)-4-methyl- <i>N</i> -(4-methylphenylsulfonyl)benzenesulfonamide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, o2356-o2356.	0.2	3
60	Exploring the Scope of Macrocyclic Shoe-last Templates in the Mechanochemical Synthesis of RHO Topology Zeolitic Imidazolate Frameworks (ZIFs). <i>Molecules</i> , 2020, 25, 633.	3.8	3
61	Supramolecular anion receptors. <i>Advances in Supramolecular Chemistry</i> , 1997, , 287-330.	1.8	2
62	(2S)-3-Carbamoyl-2-(4-methoxybenzenesulfonamido)propanoic acid. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010, 66, o2596-o2596.	0.2	1
63	Methyl 4-hydroxy-2-isopropyl-1,1-dioxo-2H-1,2-benzothiazine-3-carboxylate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, o1823-o1824.	0.2	1
64	Methyl 4-hydroxy-1,1-dioxo-2-(2-phenylethyl)-2H-1,2-benzothiazine-3-carboxylate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, o3445-o3445.	0.2	1
65	Methyl 2-(but-3-enyl)-4-hydroxy-1,1-dioxo-2H-1,2-benzothiazine-3-carboxylate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o1926-o1926.	0.2	1
66	Click-like Metalation/Demetalation of Aryl Iodides as a Means of Turning ON/OFF Halogen Bond Donor Functionality. <i>Angewandte Chemie</i> , 0, , .	2.0	1
67	Metallated Calixarenes and Cyclotrimeratrylenes as Anion Hosts. , 2004, , 87-105.		0
68	Metalated Calixarenes and Cyclotrimeratrylenes as Anion Hosts. <i>ChemInform</i> , 2005, 36, no.	0.0	0
69	2-[4-(2,6-Dimethoxyphenyl)butyl]-1,3-dimethoxybenzene. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010, 66, o1921-o1921.	0.2	0
70	(1E,3E,5E,7E)-4,4'-bis(Octa-1,3,5,7-tetraene-1,8-diyl)dipyridine. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010, 66, o508-o508.	0.2	0
71	Methyl 3,5-bis[(4-hydroxymethyl-2-methoxyphenoxy)methyl]benzoate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010, 66, o703-o703.	0.2	0
72	1,3-Bis(bromomethyl)-2-nitrobenzene. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010, 66, o834-o834.	0.2	0