Timothy Hughbanks

List of Publications by Year
in descending order

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55 papers	2,368 citations	318942 23 h-index	232693 48 g-index
57 all docs	57 docs citations	57 times ranked	2032 citing authors

#	Article	IF	Citations
1	Synthesis and characterization of a new cubic structure in the reduced zirconium iodide chemistry. Inorganica Chimica Acta, 2018, 469, 545-549.	1.2	0
2	Report from the third workshop on future directions of solid-state chemistry: The status of solid-state chemistry and its impact in the physical sciences. Progress in Solid State Chemistry, 2008, 36, 1-133.	3.9	58
3	Tight binding prediction of the Î±-Gd2S3 magnetic structure. Journal of Solid State Chemistry, 2007, 180, 818-823.	1.4	5
4	Magnetic Coupling in Dinuclear Gd Complexes. Journal of the American Chemical Society, 2006, 128, 568-575.	6.6	158
5	Electronic Transitions in [Re6S8X6]4- (X = Cl, Br, I):â€‰ Results from Time-Dependent Density Functional Theory and Solid-State Calculations. Inorganic Chemistry, 2006, 45, 8273-8282.	1.9	14
6	CsR(R6CoI12)2(R = Gd, Er) and (CeI)0.26(Ce6MnI9)2:Â Two New Structure Types Featuring R6Z Clusters. Inorganic Chemistry, 2006, 45, 9696-9702.	1.9	5
7	A Tight-Binding Method for Predicting Magnetic Ordering in Gd-Containing Solids:Â Application to GdB2C2. Journal of Physical Chemistry B, 2006, 110, 20290-20296.	1.2	6
8	Ferromagnetic Coupling in Hexanuclear Gadolinium Clusters. Journal of the American Chemical Society, 2006, 128, 10193-10201.	6.6	51
9	A DFT Study of the Interstitial Chemical Shifts in Main Group Element Centered Hexazirconium Halide Clusters. Journal of Physical Chemistry A, 2004, 108, 350-357.	1.1	3
10	Cyanide-Melt Synthesis of Reduced Molybdenum Selenide Clusters. Inorganic Chemistry, 2004, 43, 1902-1911.	1.9	22
11	The First Framework Solid Composed of Vanadosilicate Clusters.. ChemInform, 2003, 34, no.	0.1	0
12	d-Electron mediated â€“ exchange in Gd-rich compounds; spin density functional study of Gd2Cl3. Journal of Solid State Chemistry, 2003, 176, 294-305.	1.4	16
13	The First Framework Solid Composed of Vanadosilicate Clusters. Journal of the American Chemical Society, 2003, 125, 10528-10529.	6.6	126
14	Synthesis, structure and bonding of Gd6MTe2 (M=Co, Ni), Er6RuTe2. Journal of Alloys and Compounds, 2003, 358, 98-103.	2.8	20
15	Rules for Understanding and Designing Novel Molecule-Based Rare-Earth Magnetic Compounds. Materials Research Society Symposia Proceedings, 2002, 755, 1.	0.1	5
16	N-Centered Hexazirconium Chloride Clusters:Â Excision and Redox Chemistry. Inorganic Chemistry, 2002, 41, 1824-1830.	1.9	18
17	Er7Ni2Te2:â€‰ The Most Rare-Earth Metal-Rich Ternary Chalcogenide. Inorganic Chemistry, 2001, 40, 2482-2483.	1.9	30
18	Excision of Zirconium Iodide Clusters from Highly Cross-Linked Solids. Inorganic Chemistry, 2001, 40, 522-527.	1.9	14

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19	Synthesis and Structures of New Ternary Aluminum Chalcogenides:â€‰ LiAlSe2, Î±-LiAlTe2, and Î²-LiAlTe2. Inorganic Chemistry, 2000, 39, 3092-3097.	1.9	50
20	Chloroaluminate Ionic Liquids as Reagents for Isolating Soluble Hexanuclear Zirconium Halide Cluster Compounds. Inorganic Chemistry, 2000, 39, 1964-1968.	1.9	24
21	A Cyanide-Bridged Chain of Mo6Se8Clusters:Â A Product of Cyanide-Melt Cluster Synthesis. Inorganic Chemistry, 2000, 39, 5000-5001.	1.9	36
22	Reduced Zirconium Halide Clusters in Aqueous Solution. Inorganic Chemistry, 2000, 39, 555-561.	1.9	9
23	Isolation of Reduced Zirconium Chloride Clusters [(Zr6CCl12)Cl6]4â˜ and [(Zr6BCl12)Cl6]5â˜ from Acidic Aqueous Solution. Angewandte Chemie - International Edition, 1999, 38, 1777-1779.	7.2	7
24	Electrochemistry of Centered Hexanuclear Zirconium Halide Clusters in Ambient-Temperature Chloroaluminate Molten Salts. Inorganic Chemistry, 1999, 38, 992-997.	1.9	16
25	Synthesis and Structures of New Layered Ternary Manganese Tellurides:Â AMnTe2(A = K, Rb, Cs), Na3Mn4Te6, and NaMn1.56Te2. Inorganic Chemistry, 1999, 38, 235-242.	1.9	22
26	Compounds with Extremely Negative MÃ¶ssbauer-Effect Isomer Shifts:Â A Probe of Intermetallic Bonding in Zr6Cl14Fe, LiZr6Cl15Fe, and KZr6Cl15Fe. Journal of the American Chemical Society, 1998, 120, 12163-12164.	6.6	5
27	Probing the Coordination Chemistry of [Zr6BCl12]+:Â A Cluster Especially Amenable to NMR Study. Journal of the American Chemical Society, 1998, 120, 11391-11400.	6.6	14
28	Synthesis and Structures of New Layered Ternary Manganese Tellurides:Â AMnTe2(A = Li, Na). Inorganic Chemistry, 1998, 37, 1428-1429.	1.9	16
29	Title is missing!. Journal of Cluster Science, 1997, 8, 521-531.	1.7	5
30	New Zr6MTe2(M = Mn, Fe, Co, Ni, Ru, Pt), Zr6Fe0.6Se2.4, and Zr6Fe0.57S2.43Intermetallics:Â Structural Links between Binary (Zr,Hf)3M Alloys and Porous Metal-Rich Tellurides. Inorganic Chemistry, 1996, 35, 6987-6994.	1.9	24
31	Synthesis and Structure of Novel Ternary Manganese Tellurides: MMnTe2 (M = Li, Na), Na3Mn4Te6, and Na3Mn4.7Te6. Materials Research Society Symposia Proceedings, 1996, 453, 23.	0.1	0
32	Extraction and isolation of the One-electron Oxidized [(Zr6Be)Cl18]5? and [(Zr6Be)Cl18]4? Clusters from solid state precursors. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1996, 622, 425-431.	0.6	17
33	On the structure and composition of carbon nitride. Solid State Communications, 1995, 96, 321-325.	0.9	68
34	Hf2.64Zr0.36Te4 and MIxZr3Te4 (MI = Na, K, Rb, Cs), new compounds of the Nb3Te4-structure type. Journal of Alloys and Compounds, 1995, 226, 10-18.	2.8	7
35	Exploring the metal-rich chemistry of the early transition elements. Journal of Alloys and Compounds, 1995, 229, 40-53.	2.8	53
36	Hf3Te2: A New and Remarkable Layered Compound. Angewandte Chemie International Edition in English, 1994, 33, 2328-2330.	4.4	25

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37	Hf₃Te₂: Ein neues Tellurid mit bemerkenswerter Schichtstruktur. Angewandte Chemie, 1994, 106, 2414-2416.	1.6	24
38	Electronic structures of nitridometalates: molecular and extended-chain ions. Inorganic Chemistry, 1993, 32, 5611-5615.	1.9	13
39	Spin state stabilities and distortions of the novel trinitridotransition metalate(6-), (M = vanadium,) Tj ETQq1 1 0.784314 rgBT /Overlock	1.9	20
40	Subtleties of structure and bonding in Taâ^'Sâ^'Se and Taâ^'Nbâ^'S solid solutions. Journal of Solid State Chemistry, 1992, 98, 278-290.	1.4	21
41	The Metalâ€"Nonmetal Bond in the Solid State. , 1992, , 289-331.		1
42	Single-crystal structure of tantalum sulfide (Ta3S2). Structure and bonding in the Ta6Sn (n = 1,3,4,5?) pentagonal-antiprismatic chain compounds. Inorganic Chemistry, 1991, 30, 159-164.	1.9	44
43	Superdegeneracies in Extended Systems; a Prerequisite for Ï€ Ferromagnets?. Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics, 1989, 176, 115-123.	0.3	6
44	Encapsulation of heavy transition metals in iodide clusters. Synthesis, structure, and bonding of the unusual cluster phase yttrium iodide-ruthenium (Y6I10Ru). Inorganic Chemistry, 1989, 28, 631-635.	1.9	76
45	Bonding in clusters and condensed cluster compounds that extend in one, two and three dimensions. Progress in Solid State Chemistry, 1989, 19, 329-372.	3.9	89
46	Rare-earth-metal iodide clusters centered by transition metals: synthesis, structure, and bonding of R7I12M compounds (R = Sc, Y, Pr, Gd; M = Mn, Fe, Co, Ni). Inorganic Chemistry, 1988, 27, 2022-2026.	1.9	76
47	Two extended metal chain compounds, yttrium iodide carbides (Y4I5C and Y6I7C2). Synthesis, structure, properties, and bonding. Inorganic Chemistry, 1988, 27, 1791-1797.	1.9	35
48	Encapsulation of the transition metals chromium through cobalt in zirconium cluster iodides. Journal of the American Chemical Society, 1988, 110, 1511-1516.	6.6	65
49	Can M6X8 clusters form intercluster metal metal bonds?. Inorganic Chemistry, 1986, 25, 1492-1497.	1.9	6
50	Symmetry control of the coloring problem: the electronic structure of MB2C2 (M = calcium,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 T	6.6	57
51	Alloy clusters: the encapsulation of transition metals (manganese, iron, cobalt, nickel) within cluster halides of zirconium and the rare-earth metals. Journal of the American Chemical Society, 1986, 108, 8289-8290.	6.6	72
52	Niobium oxide (NbO) and titanium oxide (TiO): a study of the structural and electronic stability of structures derived from rock salt. Journal of the American Chemical Society, 1984, 106, 3101-3113.	6.6	93
53	Molybdenum chalcogenides: clusters, chains, and extended solids. The approach to bonding in three dimensions. Journal of the American Chemical Society, 1983, 105, 1150-1162.	6.6	277
54	Chains of trans-edge-sharing molybdenum octahedra: metal-metal bonding in extended systems. Journal of the American Chemical Society, 1983, 105, 3528-3537.	6.6	423

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55	The molybdenum selenide (Mo3Se3-).infin. chain. Inorganic Chemistry, 1982, 21, 3578-3580.	1.9	20