Timothy l Hyde

List of Publications by Year
in descending order

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58	1,391	304743	345221
papers	citations	22 h-index	36 g-index

60	60	60	1362
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On the effect of metal loading on the reducibility and redox chemistry of ceria supported Pd catalysts. Physical Chemistry Chemical Physics, 2022, 24, 2387-2395.	2.8	2
2	Understanding the ZIF-L to ZIF-8 transformation from fundamentals to fully costed kilogram-scale production. Communications Chemistry, 2022, 5, .	4.5	45
3	Elucidation of copper environment in a Cuâ€“Crâ€“Fe oxide catalyst through in situ high-resolution XANES investigation. Physical Chemistry Chemical Physics, 2021, 23, 5888-5896.	2.8	6
4	Monitoring the process of formation of ZnO from ZnO₂ using in situ combined XRD/XAS technique. Journal of Physics Condensed Matter, 2021, 33, 264002.	1.8	4
5	Operando XAFS investigation on the effect of ash deposition on three-way catalyst used in gasoline particulate filters and the effect of the manufacturing process on the catalytic activity. Journal of Physics Condensed Matter, 2021, 33, 284001.	1.8	1
6	A new application of the commercial high temperature water gas shift catalyst for reduction of CO2 emissions in the iron and steel industry: Lab-scale catalyst evaluation. International Journal of Hydrogen Energy, 2021, 46, 39023-39035.	7.1	9
7	4D In-Situ Microscopy of Aerosol Filtration in a Wall Flow Filter. Materials, 2020, 13, 5676.	2.9	2
8	Temperature reversible synergistic formation of cerium oxyhydride and Au hydride: a combined XAS and XPDF study. Physical Chemistry Chemical Physics, 2020, 22, 18882-18890.	2.8	2
9	Electronic and Geometric Structures of Rechargeable Lithium Manganese Sulfate Li₂Mn(SO₄)₂ Cathode. ACS Omega, 2019, 4, 11338-11345.	3.5	2
10	Unusual Redox Behavior of Ceria and Its Interaction with Hydrogen. Chemistry of Materials, 2019, 31, 7744-7751.	6.7	15
11	Reverse Monte Carlo studies of CeO₂using neutron and synchrotron radiation techniques. Physica Scripta, 2017, 92, 034002.	2.5	8
12	Ex situ XAS investigation of effect of binders on electrochemical performance of Li₂Fe(SO₄)₂ cathode. Journal of Materials Chemistry A, 2017, 5, 19963-19971.	10.3	4
13	Structure of Nanoâ€sized CeO₂ Materials: Combined Scattering and Spectroscopic Investigations. ChemPhysChem, 2016, 17, 3494-3503.	2.1	20
14	Solid State Platinum Speciation from X-ray Absorption Spectroscopic Studies of Fresh and Road Aged Three Way and Diesel Vehicle Emission Control Catalysts. Environmental Science and Engineering, 2015, , 289-308.	0.2	2
15	Local Structure and Speciation of Platinum in Fresh and Road-Aged North American Sourced Vehicle Emissions Catalysts: An X-ray Absorption Spectroscopic Study. Environmental Science & Technology, 2014, 48, 3658-3665.	10.0	12
16	Tracking the structural changes in pure and heteroatom substituted aluminophosphate, AlPO-18, using synchrotron based X-ray diffraction techniques. Physical Chemistry Chemical Physics, 2013, 15, 11766.	2.8	7
17	Elucidation of structure and nature of the PdOâ€“Pd transformation using in situ PDF and XAS techniques. Physical Chemistry Chemical Physics, 2013, 15, 8555.	2.8	45
18	Structure and speciation of chromium ions in chromium doped Fe₂O₃catalysts. Physical Chemistry Chemical Physics, 2013, 15, 168-175.	2.8	15

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19	CuAu/SiO2 catalysts for the selective oxidation of propene to acrolein: the impact of catalyst preparation variables on material structure and catalytic performance. Catalysis Science and Technology, 2013, 3, 2944.	4.1	36
20	Tuning the properties of PdAu bimetallic nanocatalysts for selective hydrogenation reactions. Catalysis Science and Technology, 2013, 3, 2934.	4.1	14
21	Tracking the Formation of Nano-sized Zinc Oxide from Zinc Peroxide by In Situ XAS and XRD. Journal of Physics: Conference Series, 2013, 430, 012080.	0.4	4
22	Nanostructural Studies of Fresh and Roadâ€Aged Practical Pt/SiO₂ and Ptâ€Pd/Al₂O₃ Diesel Oxidation Catalysts by using Aberrationâ€Corrected (Scanning) Transmission Electron Microscopy. ChemCatChem, 2012, 4, 1622-1631.	3.7	19
23	Fitting EXAFS data using molecular dynamics outputs and a histogram approach. Physical Review B, 2012, 85, .	3.2	40
24	X-Ray Absorption SpectroscopicStudies of Platinum Speciation in Fresh and Road Aged Light-Duty Diesel Vehicle Emission Control Catalysts. Platinum Metals Review, 2011, 55, 233-245.	1.2	25
25	EXAFS and XRD characterization of palladium sorbents for high temperature mercury capture from fuel gas. Physical Chemistry Chemical Physics, 2010, 12, 484-491.	2.8	13
26	A 59Co NMR study to observe the effects of ball milling on small ferromagnetic cobalt particles. Solid State Nuclear Magnetic Resonance, 2009, 35, 67-73.	2.3	8
27	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mtext>C</mml:mtext><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>59</mml:mn></mml:mrow></mml:mmultiscripts><mml:mtext>o</mml:mtext></mml:mrow></mml:math>NMR study of the allotropic phase transformation in small ferromagnetic cobalt particles. Physical Review B, 2009, 79, .	3.2	17
28	FINAL ANALYSIS. Platinum Metals Review, 2008, 52, 129-130.	1.2	51
29	Crystal size and shape analysis of Pt nanoparticles in two and three dimensions. Journal of Physics: Conference Series, 2006, 26, 367-370.	0.4	15
30	Characterization of protective coatings for planar automotive gas sensors. Sensors and Actuators B: Chemical, 2005, 110, 209-217.	7.8	2
31	trans-Dichloro(meso-2,3,7,11,12-pentamethyl-3,7,11,17-tetraazabicyclo[11.3.1]heptadeca-1(17),13,15-triene-Î²4N3,7,11,17)rhodium(III) hexafluorophosphate. Acta Crystallographica Section E: Structure Reports Online, 2001, 57, m459-m461.	0.2	0
32	Synthesis and crystal structures of â€˜Li1.8K0.9M0.75Zr2.25O6.6â€™(M = Cu, Mg): a family of novel rocksaltâ€“perovskite intergrowth phases. Journal of Materials Chemistry, 1996, 6, 1379-1383.	6.7	3
33	Redox-Structural Correlations in Metal Thioether Macrocyclic Complexes: The Stabilisation of Mononuclear Silver(II) and Gold(II). , 1993, , 121-129.		0
34	Nickel thioether chemistry: a re-examination of the electrochemistry of [Ni([9]aneS3)2]2+. The single-crystal X-ray structure of a nickel(III) thioether complex, [NiIII([9]aneS3)2][H5O2]3[ClO4]6([9]aneS3= 1,4,7-trithiacyclononane). Journal of the Chemical Society Dalton Transactions, 1992, , 3427-3431.	1.1	24
35	Osmium thioether chemistry: synthesis and single-crystal X-ray structures of [Os([9]aneS3)2][PF6]2Â·2MeNO2, [Os(4-MeC6H4Pri)([9]aneS3)][BPh4]2Â·MeNO2and [OsH(CO)(PPh3)([9]aneS3)]PF6Â·0.5CH2Cl2([9]aneS3= 1,4,7-trithiacyclononane). Journal of the Chemical Society Dalton Transactions, 1992, , 2977-2986.	1.1	16
36	Bis(1,4,7-trithiacyclononane)gold Dication: A Paramagnetic, Mononuclear AuII Complex. Angewandte Chemie International Edition in English, 1990, 29, 197-198.	4.4	72

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37	Bis(1,4,7â€trithiacyclononan)goldâ€Dikation: Ein paramagnetischer, einkerniger Au^{II}â€Komplex. Angewandte Chemie, 1990, 102, 203-204.	2.0	27
38	Ruthenium thioether chemistry: the synthesis and structure of a hostâ€“guest complex [Ru([9]aneS3)2][BPh4]2Â·2Me2SO, and of [Ru([9]aneS3)2][BPh4]2Â·2MeNO2and [Ru([18]aneS6)][BPh4]2([9]aneS3=1,4,7-trithiacyclononane, [18]aneS6=) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (1,4,7,10,13,16	2.2	47
39	3841-3847. Iridium thioether chemistry: the synthesis and structures of [IrL2][PF6]3and [IrHL2][PF6]2(L =) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.1	18
40	Silver thioether chemistry: Synthesis, X-ray crystal structure and redox properties of [Ag([18]aneS6)]+ ([18]aneS6 = 1,4,7,10,13,16-hexathiacyclooctadecane). Polyhedron, 1989, 8, 513-518.	2.2	66
41	Mercury thioether chemistry: The synthesis and structure of [Hg([9]aneS3)2](PF6)2 ([9]aneS3 =) Tj ETQq1 1 0.784314 rgBT /Overlock	2.2	41
42	Câ€“H activation in a co-ordinated catenand: ortho-metallation of cat30 by palladium(II). Journal of the Chemical Society Chemical Communications, 1989, , 1663-1665.	2.0	15
43	Câ€“H Activation of co-ordinated crowns thioethers: deprotonation and ring-opening of [M([9]aneS3)2]3+(M = Co, Rh, Ir). Crystal structure of [Rh(H2Cî€†CHS(CH2)2S(CH2)2S)([9]aneS3)](PF6)2([9]aneS3= 1,4,7-trithiacyclononane). Journal of the Chemical Society Chemical Communications, 1989, , 1600-1602.	2.0	50
44	Precursor catenand complexes: synthesis, structure, and electrochemistry of bis(2,6-di-iminopyridyl) complexes of nickel(II). The single-crystal X-ray structureof [NiL42][BF4]2. Journal of the Chemical Society Dalton Transactions, 1989, , 965-970.	1.1	27
45	Gold thioether chemistry: synthesis, structure, and redox interconversion of [Au([9]aneS3)2]+/2+/3+([9]aneS3= 1,4,7-trithiacyclononane). Journal of the Chemical Society Chemical Communications, 1989, , 876-878.	2.0	47
46	Ï€-Effects in thioether macrocyclic complexes: the stabilisation and structure of the low-spin FeIIIthioether complex [Fe([9]aneS3)2]3+. Journal of the Chemical Society Chemical Communications, 1989, , 1433-1434.	2.0	32
47	Structure of C-meso-2,12-dimethyl-3,7,11,17-tetraazabicyclo[11.3.1]heptadeca-1(17),13,15-triene monohydrate. Acta Crystallographica Section C: Crystal Structure Communications, 1988, 44, 1325-1326.	0.4	0
48	Homoleptic hexathia complexes of rhodium. The synthesis, electrochemistry, and single-crystal X-ray structure of [RhL2][PF6]3(L = 1,4,7-trithiacyclononane). Journal of the Chemical Society Dalton Transactions, 1988, , 1861-1865.	1.1	40
49	Palladium(II)/(III) complexes of triaza macrocycles: synthesis and single crystal X-ray structures of [PdIII(tacn)2]3+and [PdII(tacn)(tacnH)]3+(tacn = 1,4,7-triazacyclononane). Journal of the Chemical Society Chemical Communications, 1988, , 1452-1454.	2.0	47
50	Hydrido platinum metal macrocyclic complexes: the synthesis and single-crystal X-ray structure of cis-[IrCl(H)L1]PF6{L1=7-methyl-3,7,11,17-tetrazabicyclo[11.3.1]heptadeca-1(17),13,15-triene}. Journal of the Chemical Society Dalton Transactions, 1988, , 1165-1168.	1.1	5
51	Stereochemical and redox properties of palladium complexes of 1,4,10,13-tetrathia-7,16-diazacyclo-octadecane. Journal of the Chemical Society Chemical Communications, 1988, , 1397-1399.	2.0	43
52	Stabilisation of trivalent platinum by structurally accommodating thiamacrocycles. Journal of the Chemical Society Chemical Communications, 1987, , 118-120.	2.0	87
53	Stabilisation of monovalent palladium by tetra-aza macrocycles. Journal of the Chemical Society Chemical Communications, 1987, .	2.0	31
54	Tetrahedral distortion in palladium(II) macrocyclic complexes: the single crystal X-ray structure of [Pd(tbc)](PF6)2Â·0.4MeNO2(tbc = 1,4,8,11-tetra-azacyclotetradecane). Journal of the Chemical Society Chemical Communications, 1987, , 1730-1732.	2.0	22

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55	Stabilisation of mononuclear palladium(III). The single crystal X-ray structure of the [Pd(L)2]3+cation (L = 1,4,7-trithiacyclononane). Journal of the Chemical Society Chemical Communications, 1987, , 987-988.	2.0	84
56	Transition metal complexes of homoleptic polythia crowns. Journal of Inclusion Phenomena, 1987, 5, 169-172.	0.6	18
57	Structural and electrochemical studies on trithia macrocyclic complexes of palladium. Journal of Organometallic Chemistry, 1987, 323, 261-270.	1.8	103
58	Synthesis of platinum metal macrocyclic complexes incorporating a pyridine-2,6-diyl moiety. The single crystal X-ray structure of cis-[RuIICl(CO)(L)](BPh4){L = 2,7,12-trimethyl-3,7,11,17-tetra-azabicyclo[11.3.1]heptadeca-1,(17),13,15-triene}. Journal of the Chemical Society Chemical Communications, 1986, , 334-336.	2.0	9