

Adam S Hock

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7870224/publications.pdf>

Version: 2024-02-01

52
papers

2,722
citations

185998

28
h-index

174990

52
g-index

57
all docs

57
docs citations

57
times ranked

3462
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomic Layer Deposition of Tin Monosulfide Thin Films. <i>Advanced Energy Materials</i> , 2011, 1, 1116-1125.	10.2	383
2	Propylene Hydrogenation and Propane Dehydrogenation by a Single-Site Zn ²⁺ on Silica Catalyst. <i>ACS Catalysis</i> , 2014, 4, 1091-1098.	5.5	230
3	Molybdenum Triamidoamine Complexes that Contain Hexa-tert-butylterphenyl, Hexamethylterphenyl, orp-Bromohexaisopropylterphenyl Substituents. An Examination of Some Catalyst Variations for the Catalytic Reduction of Dinitrogen. <i>Journal of the American Chemical Society</i> , 2004, 126, 6150-6163.	6.6	186
4	Selective propane dehydrogenation with single-site CoII on SiO ₂ by a non-redox mechanism. <i>Journal of Catalysis</i> , 2015, 322, 24-37.	3.1	168
5	Isolated Fe ^{II} on Silica As a Selective Propane Dehydrogenation Catalyst. <i>ACS Catalysis</i> , 2015, 5, 3494-3503.	5.5	144
6	Low Temperature Atomic Layer Deposition of Tin Oxide. <i>Chemistry of Materials</i> , 2010, 22, 4964-4973.	3.2	121
7	Dipyrrolyl Precursors to Bisalkoxide Molybdenum Olefin Metathesis Catalysts. <i>Journal of the American Chemical Society</i> , 2006, 128, 16373-16375.	6.6	105
8	Highly Active, Stable, and Selective Well-Defined Silica Supported Mo Imido Olefin Metathesis Catalysts. <i>Journal of the American Chemical Society</i> , 2007, 129, 1044-1045.	6.6	92
9	Organometallic model complexes elucidate the active gallium species in alkane dehydrogenation catalysts based on ligand effects in Ga K-edge XANES. <i>Catalysis Science and Technology</i> , 2016, 6, 6339-6353.	2.1	90
10	Single-site zinc on silica catalysts for propylene hydrogenation and propane dehydrogenation: Synthesis and reactivity evaluation using an integrated atomic layer deposition-catalysis instrument. <i>Journal of Catalysis</i> , 2017, 345, 170-182.	3.1	76
11	Synthesis of Molybdenum Complexes that Contain ϵ -Hybrid ϵ -Triamidoamine Ligands, [(Hexaisopropylterphenyl-NCH ₂ CH ₂) ₂ NCH ₂ CH ₂ N-aryl] ₃ -, and Studies Relevant to Catalytic Reduction of Dinitrogen. <i>Inorganic Chemistry</i> , 2006, 45, 9185-9196.	1.9	70
12	Synthesis of N-Heterocyclic Stannylene (Sn(II)) and Germylene (Ge(II)) and a Sn(II) Amidinate and Their Application as Precursors for Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2014, 26, 3065-3073.	3.2	69
13	Conformal Coating of a Phase Change Material on Ordered Plasmonic Nanorod Arrays for Broadband All-Optical Switching. <i>ACS Nano</i> , 2017, 11, 693-701.	7.3	55
14	The Nature of the Isolated Gallium Active Center for Propane Dehydrogenation on Ga/SiO ₂ . <i>Catalysis Letters</i> , 2017, 147, 1252-1262.	1.4	54
15	Discovery of Highly Selective Alkyne Semihydrogenation Catalysts Based on First-Row Transition-Metallated Porous Organic Polymers. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12055-12058.	7.2	51
16	Reactions of M(N-2,6-i-Pr ₂ C ₆ H ₃)(CHR)(CH ₂ R ⁻) ₂ (M = Mo, W) Complexes with Alcohols To Give Olefin Metathesis Catalysts of the Type M(N-2,6-i-Pr ₂ C ₆ H ₃)(CHR)(CH ₂ R ⁻)(OR ⁻). <i>Organometallics</i> , 2006, 25, 1412-1423.	1.1	46
17	Zirconium Modification Promotes Catalytic Activity of a Single-Site Cobalt Heterogeneous Catalyst for Propane Dehydrogenation. <i>ACS Omega</i> , 2018, 3, 11117-11127.	1.6	43
18	Syntheses and Structures of Molybdenum Imido Alkylidene Pyrrolide and Indolide Complexes. <i>Organometallics</i> , 2008, 27, 6570-6578.	1.1	40

#	ARTICLE	IF	CITATIONS
19	Synthesis of High Oxidation State Bimetallic Alkylidene Complexes for Controlled ROMP Synthesis of Triblock Copolymers. <i>Organometallics</i> , 2005, 24, 5058-5066.	1.1	38
20	A Remarkably Active Iron Catecholate Catalyst Immobilized in a Porous Organic Polymer. <i>ACS Catalysis</i> , 2013, 3, 826-830.	5.5	38
21	Effect of Siloxane Ring Strain and Cation Charge Density on the Formation of Coordinately Unsaturated Metal Sites on Silica: Insights from Density Functional Theory (DFT) Studies. <i>ACS Catalysis</i> , 2015, 5, 7177-7185.	5.5	38
22	Phase Discrimination through Oxidant Selection in Low-Temperature Atomic Layer Deposition of Crystalline Iron Oxides. <i>Langmuir</i> , 2013, 29, 3439-3445.	1.6	37
23	Oxygen-Free Atomic Layer Deposition of Indium Sulfide. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12137-12145.	4.0	37
24	Template-Free Vapor-Phase Growth of PbO by Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2017, 29, 2864-2873.	3.2	37
25	VIn_3 Intermediate Band Absorbers Deposited by Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2016, 28, 2033-2040.	3.2	35
26	Evidence for Redox Mechanisms in Organometallic Chemisorption and Reactivity on Sulfated Metal Oxides. <i>Journal of the American Chemical Society</i> , 2018, 140, 6308-6316.	6.6	34
27	Synthesis of Molybdenum(VI) Monoimido Alkyl and Alkylidene Complexes. <i>Organometallics</i> , 2005, 24, 1929-1937.	1.1	32
28	Assignment of the oxidation states of Zr and Co in a highly reactive heterobimetallic Zr/Co complex using X-ray absorption spectroscopy (XANES). <i>Dalton Transactions</i> , 2014, 43, 13852.	1.6	29
29	Synthesis and Catalytic Hydrogenation Reactivity of a Chromium Catecholate Porous Organic Polymer. <i>Organometallics</i> , 2015, 34, 947-952.	1.1	27
30	Synthesis of Molybdenum Imido Alkylidene Complexes That Contain Siloxides. <i>Organometallics</i> , 2007, 26, 6674-6680.	1.1	26
31	Synthesis, Characterization, and Activation of Zirconium and Hafnium Dialkyl Complexes that Contain a C ₂ -Symmetric Diaminobinaphthyl Dipyridine Ligand. <i>Organometallics</i> , 2005, 24, 3335-3342.	1.1	25
32	Supported Aluminum Catalysts for Olefin Hydrogenation. <i>ACS Catalysis</i> , 2017, 7, 689-694.	5.5	25
33	Some Organometallic Chemistry of Molybdenum Complexes that Contain the [HIPTN ₃ N]3-Triamidoamine Ligand, {[3,5-(2,4,6- <i>i</i> -Pr ₃ C ₆ H ₂) ₂ C ₆ H ₃ NCH ₂ CH ₂] ₃ N}3-. <i>Organometallics</i> , 2005, 24, 4437-4450.	1.1	22
34	Rhodium Catechol Containing Porous Organic Polymers: Defined Catalysis for Single-Site and Supported Nanoparticulate Materials. <i>Organometallics</i> , 2014, 33, 2517-2522.	1.1	22
35	Catalyst synthesis and evaluation using an integrated atomic layer deposition synthesis-catalysis testing tool. <i>Review of Scientific Instruments</i> , 2015, 86, 084103.	0.6	20
36	Synthesis, Characterization, and Polymerization Behavior of Zirconium and Hafnium Complexes that Contain Asymmetric Diamido-N-Donor Ligands. <i>Organometallics</i> , 2004, 23, 4362-4372.	1.1	16

#	ARTICLE	IF	CITATIONS
37	A modular reactor design for <i>in situ</i> synchrotron x-ray investigation of atomic layer deposition processes. <i>Review of Scientific Instruments</i> , 2015, 86, 113901.	0.6	16
38	Oxidation State Discrimination in the Atomic Layer Deposition of Vanadium Oxides. <i>Chemistry of Materials</i> , 2017, 29, 6238-6244.	3.2	16
39	Molybdenum and Tungsten Complexes That Contain the Diamidoamine Ligands [(C ₆ F ₅ NCH ₂ CH ₂) ₂ NMe] ₂ -, [(3,4,5-C ₆ H ₂ F ₃ NCH ₂ CH ₂) ₂ NMe] ₂ -, and [(3-CF ₃ C ₆ H ₄ NCH ₂ CH ₂) ₂ NMe] ₂ -. <i>Organometallics</i> , 2004, 23, 665-678.	1.1	15
40	Silica-Supported, Single-Site Sc and Y Alkyls for Catalytic Hydrogenation of Propylene. <i>Organometallics</i> , 2017, 36, 3677-3685.	1.1	15
41	Synthetic and Spectroscopic Study of the Mechanism of Atomic Layer Deposition of Tin Dioxide. <i>Organometallics</i> , 2016, 35, 1202-1208.	1.1	12
42	Monomolecular Siloxane Film as a Model of Single Site Catalysts. <i>Journal of the American Chemical Society</i> , 2016, 138, 12432-12439.	6.6	11
43	Development of activity descriptor relationships for supported metal ion hydrogenation catalysts on silica. <i>Polyhedron</i> , 2018, 152, 73-83.	1.0	11
44	Nuclearity effects in supported, single-site Fe(η^5 -C ₅ H ₅) ₂ hydrogenation pre-catalysts. <i>Dalton Transactions</i> , 2018, 47, 10842-10846.	1.6	9
45	Oxidative Reactions of the MoIV Dialkyl Complex [(3-CF ₃ C ₆ H ₄ NCH ₂ CH ₂) ₂ NMe]Mo(CH ₂ SiMe ₃) ₂ . <i>Chemistry - an Asian Journal</i> , 2007, 2, 867-874.	1.7	8
46	Growth of Ta ₂ SnO ₆ Films, a Candidate Wide-Band-Gap p-Type Oxide. <i>Journal of Physical Chemistry C</i> , 2022, 126, 3764-3775.	1.5	8
47	In Situ X-ray Absorption Spectroscopy and Nonclassical Catalytic Hydrogenation with an Iron(II) Catecholate Immobilized on a Porous Organic Polymer. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 3972-3977.	1.0	7
48	Selective Hydroxylation of In ₂ O ₃ as A Route to Site-Selective Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , 0, , .	1.5	6
49	Crystalline WS ₂ via Room Temperature, Solution-Phase Synthesis. <i>Inorganic Chemistry</i> , 2017, 56, 106-109.	1.9	2
50	Thermal Atomic Layer Deposition of Gold: Mechanistic Insights, Nucleation, and Epitaxy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 9091-9100.	4.0	2
51	Comparison of Ligand Architecture on Vapor Deposition Precursors: Synthesis, Characterization, and Reactivity of Volatile Cadmium Bis-Amidinate Complexes. <i>Inorganic Chemistry</i> , 2021, 60, 6191-6200.	1.9	2
52	Chemical and spatial control of substitutional intermediate band materials: Toward the atomic layer deposition of V _{0.25} In _{1.75} SP ₃ . , 2014, , .		1