

Matthew Conley

List of Publications by Year in descending order

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60
papers

3,415
citations

147566

31
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57
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75
all docs

75
docs citations

75
times ranked

3479
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface Organometallic and Coordination Chemistry toward Single-Site Heterogeneous Catalysts: Strategies, Methods, Structures, and Activities. <i>Chemical Reviews</i> , 2016, 116, 323-421.	23.0	650
2	Bridging the Gap between Industrial and Well-Defined Supported Catalysts. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6398-6440.	7.2	193
3	Au- and Pt-Catalyzed Cycloisomerizations of 1,5-Enynes to Cyclohexadienes with a Broad Alkyne Scope. <i>Journal of the American Chemical Society</i> , 2006, 128, 9705-9710.	6.6	156
4	The impact of Metal-Ligand Cooperation in Hydrogenation of Carbon Dioxide Catalyzed by Ruthenium PNP Pincer. <i>ACS Catalysis</i> , 2013, 3, 2522-2526.	5.5	136
5	Polymerization of Ethylene by Silica-Supported Dinuclear Cr ^{III} Sites through an Initiation Step Involving C-H Bond Activation. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1872-1876.	7.2	120
6	Proton transfers are key elementary steps in ethylene polymerization on isolated chromium(III) silicates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11624-11629.	3.3	118
7	Mesostructured Hybrid Organic-Silica Materials: Ideal Supports for Well-Defined Heterogeneous Organometallic Catalysts. <i>ACS Catalysis</i> , 2014, 4, 1458-1469.	5.5	106
8	Lutidine-Derived Ru-CNC Hydrogenation Pincer Catalysts with Versatile Coordination Properties. <i>ACS Catalysis</i> , 2014, 4, 2667-2671.	5.5	104
9	Heterolytic Activation of C-H Bonds on Cr ^{III} -O Surface Sites Is a Key Step in Catalytic Polymerization of Ethylene and Dehydrogenation of Propane. <i>Inorganic Chemistry</i> , 2015, 54, 5065-5078.	1.9	103
10	Nontraditional Catalyst Supports in Surface Organometallic Chemistry. <i>ACS Catalysis</i> , 2020, 10, 11822-11840.	5.5	94
11	Hybrid polarizing solids for pure hyperpolarized liquids through dissolution dynamic nuclear polarization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14693-14697.	3.3	93
12	A Well-Defined Silica-Supported Tungsten Oxo Alkyldiene Is a Highly Active Alkene Metathesis Catalyst. <i>Journal of the American Chemical Society</i> , 2013, 135, 19068-19070.	6.6	83
13	Dramatic Acceleration of the Pd-Catalyzed [4+2] Benzannulation Reaction of Enynes and Dienes in the Presence of Lewis Acids and Bases: An Expanded Scope and New Mechanistic Insights. <i>Journal of the American Chemical Society</i> , 2006, 128, 5818-5827.	6.6	76
14	Three-Dimensional Structure Determination of Surface Sites. <i>Journal of the American Chemical Society</i> , 2017, 139, 849-855.	6.6	75
15	A Well-Defined Ni(II) η^5 -Diimine Catalyst Supported on Sulfated Zirconia for Polymerization Catalysis. <i>Organometallics</i> , 2017, 36, 2385-2388.	1.1	73
16	A Well-Defined Pd Hybrid Material for the α -Selective Semihydrogenation of Alkynes Characterized at the Molecular Level by DNP SENS. <i>Chemistry - A European Journal</i> , 2013, 19, 12234-12238.	1.7	61
17	Near-IR Two Photon Microscopy Imaging of Silica Nanoparticles Functionalized with Isolated Sensitized Yb(III) Centers. <i>Chemistry of Materials</i> , 2014, 26, 1062-1073.	3.2	61
18	Improved Dynamic Nuclear Polarization Surface-Enhanced NMR Spectroscopy through Controlled Incorporation of Deuterated Functional Groups. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1222-1225.	7.2	58

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19	A Bulky Pd(II) η^5 -Diimine Catalyst Supported on Sulfated Zirconia for the Polymerization of Ethylene and Copolymerization of Ethylene and Methyl Acrylate. <i>Organometallics</i> , 2018, 37, 1001-1006.	1.1	58
20	Solid-Phase Polarization Matrixes for Dynamic Nuclear Polarization from Homogeneously Distributed Radicals in Mesostructured Hybrid Silica Materials. <i>Journal of the American Chemical Society</i> , 2013, 135, 15459-15466.	6.6	56
21	Bulky Aryloxide Ligand Stabilizes a Heterogeneous Metathesis Catalyst. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 14221-14224.	7.2	54
22	σ -Bond Character in Metal-alkyl Compounds for C-H Activation: How, When, and Why?. <i>Journal of the American Chemical Society</i> , 2019, 141, 648-656.	6.6	46
23	Chlorodiethylaluminum supported on silica: A dinuclear aluminum surface species with bridging η^2 -Cl ligand as a highly efficient co-catalyst for the Ni-catalyzed dimerization of ethene. <i>Journal of Catalysis</i> , 2014, 313, 46-54.	3.1	43
24	Role of Tricoordinate Al Sites in $\text{CH}_3\text{CH}=\text{CH}_2/\text{ReO}_3/\text{Al}_2\text{O}_3$ Olefin Metathesis Catalysts. <i>Journal of the American Chemical Society</i> , 2016, 138, 6774-6785.	6.6	42
25	Silica-surface reorganization during organotin grafting evidenced by ^{119}Sn DNP SENS: a tandem reaction of gem-silanols and strained siloxane bridges. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 17822-17827.	1.3	40
26	Eine Brücke zwischen industriellen und wohldefinierten Trägerkatalysatoren. <i>Angewandte Chemie</i> , 2018, 130, 6506-6551.	1.6	39
27	Characterization of Reactive Organometallic Species via MicroED. <i>ACS Central Science</i> , 2019, 5, 1507-1513.	5.3	39
28	Triisobutylaluminum: bulkier and yet more reactive towards silica surfaces than triethyl or trimethylaluminum. <i>Dalton Transactions</i> , 2013, 42, 12681.	1.6	35
29	The Nature of Secondary Interactions at Electrophilic Metal Sites of Molecular and Silica-Supported Organolutetium Complexes from Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2016, 138, 3831-3843.	6.6	35
30	Abundant Vanadium Diboride with Graphene-like Boron layers for Hydrogen Evolution. <i>ACS Applied Energy Materials</i> , 2019, 2, 176-181.	2.5	35
31	<i>cis</i> / <i>trans</i> Isomerization of Phosphinesulfonate Palladium(II) Complexes. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3744-3746.	7.2	34
32	One-Photon Near-Infrared Sensitization of Well-Defined Yb(III) Surface Complexes for NIR-to-NIR Single Nanoparticle Imaging. <i>Chemistry of Materials</i> , 2015, 27, 2033-2039.	3.2	32
33	Mechanism of Ethylene Oligomerization by a Cationic Palladium(II) Alkyl Complex that Contains a	1.1	31
34	Polymerization on CO-Reduced Phillips Catalyst initiates through the C-H bond Activation of Ethylene on Cr=O Sites. <i>Catalysis Letters</i> , 2014, 144, 805-808.	1.4	30
35	State of the Art and Perspectives in the "Molecular Approach" Towards Well-Defined Heterogeneous Catalysts. <i>Topics in Catalysis</i> , 2014, 57, 843-851.	1.3	30
36	The η^2 -Agostic Structure in $(\text{C}_5\text{Me}_5)_2\text{Sc}(\text{CH}_2\text{CH}_3)$: Solid-State NMR Studies of $(\text{C}_5\text{Me}_5)_2\text{Sc}^+\text{R}^-$ (R=Me, Ph, Et). <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9520-9523.	7.2	26

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37	Synthesis and Characterization of Rare Earth Siloxide Complexes, $M[OSi(OtBu)_3]_3(L)_x$ where L is $HOtBu$ and $x = 0$ or 1 . <i>Organometallics</i> , 2015, 34, 2271-2277.	1.1	25
38	Generation of Phosphonium Sites on Sulfated Zirconium Oxide: Relationship to Brønsted Acid Strength of Surface $\sim OH$ Sites. <i>Journal of the American Chemical Society</i> , 2019, 141, 1484-1488.	6.6	25
39	Activation of $C\sim F$ Bonds by Electrophilic Organosilicon Sites Supported on Sulfated Zirconia. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14902-14905.	7.2	24
40	$Al(ORF)_3$ ($RF = C(CF_3)_3$) activated silica: a well-defined weakly coordinating surface anion. <i>Chemical Science</i> , 2020, 11, 1510-1517.	3.7	23
41	Active Sites in a Heterogeneous Organometallic Catalyst for the Polymerization of Ethylene. <i>ACS Central Science</i> , 2021, 7, 1225-1231.	5.3	21
42	$MeReO_3/Al_2O_3$ and Me_4Sn -activated Re_2O_7/Al_2O_3 alkene metathesis catalysts have similar active sites. <i>Catalysis Science and Technology</i> , 2015, 5, 1438-1442.	2.1	17
43	Reply to Peters et al.: Proton transfers are plausible initiation and termination steps on Cr(III) sites in ethylene polymerization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E4162-3.	3.3	16
44	Ethylene Polymerization Activity of $(R_3P)Ni(codH)^+$ ($cod = 1,5$ -cyclooctadiene) Sites Supported on Sulfated Zirconium Oxide. <i>Inorganic Chemistry</i> , 2021, 60, 6946-6949.	1.9	14
45	Origin of the ^{29}Si NMR chemical shift in R_3Si-X and relationship to the formation of silylium (R_3Si^+) ions. <i>Dalton Transactions</i> , 2020, 49, 16453-16463.	1.6	13
46	A Heterogeneous Palladium Catalyst for the Polymerization of Olefins Prepared by Halide Abstraction Using Surface R_3Si^+ Species. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	12
47	Differentiation between Chelate Ring Inversion and Aryl Rotation in a CF_3 -Substituted Phosphine-Sulfonate Palladium Methyl Complex. <i>Organometallics</i> , 2014, 33, 4486-4496.	1.1	11
48	Solid-State ^{45}Sc NMR Studies of Cp^*_2Sc-X ($R =$) Tj $ETQqO$ O O $rgBT$ $/O$ $verlock$ 10 Tf 50 317 Td ($CMex$)	1.1	10
49	Cp^*_2Sc -Sites Supported on Partially Dehydroxylated Silica. <i>Organometallics</i> , 2020, 39, 1112-1122.	1.6	9
50	Solid-state ^{45}Sc NMR studies of Cp^*_2Sc-X and $Cp^*_2ScX(THF)$. <i>Dalton Transactions</i> , 2018, 47, 13063-13071.	1.6	9
51	Tungstacyclopentane Ring Contraction Yields Olefin Metathesis Catalysts. <i>Journal of the American Chemical Society</i> , 2022, 144, 10929-10942.	6.6	9
52	Interconversion of Molybdenum or Tungsten d^2 Styrene Complexes with d^0 1-Phenethylidene Analogues. <i>Journal of the American Chemical Society</i> , 2021, 143, 17209-17218.	6.6	8
53	Reactions of Triisobutylaluminum with Unbridged or Bridged Group IV Metallocene Dichlorides. <i>Organometallics</i> , 2022, 41, 892-899.	1.1	8
54	A Heterogeneous Palladium Catalyst for the Polymerization of Olefins Prepared by Halide Abstraction Using Surface R_3Si^+ Species. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	7
55	The coordination chemistry of oxide and nanocarbon materials. <i>Dalton Transactions</i> , 2022, 51, 8557-8570.	1.6	7

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55	A Heterogeneous Iridium Catalyst for the Hydroboration of Pyridines. <i>Organic Letters</i> , 2022, 24, 4680-4683.	2.4	5
56	Solid-state NMR: An EYE Opener in Surface Chemistry. <i>Chimia</i> , 2012, 66, 752.	0.3	4
57	The η^2 -Agostic Structure in $(C_5Me_5)_2Sc(CH_2CH_3)$: Solid-State NMR Studies of $(C_5Me_5)_2Sc^{\eta^2}R$ ($R=Me$). <i>J. ETQ</i> , 2011, 1, 0.78-1.15.	1.6	4
58	Activation of C-F Bonds by Electrophilic Organosilicon Sites Supported on Sulfated Zirconia. <i>Angewandte Chemie</i> , 2018, 130, 15118-15121.	1.6	4
59	Solid-State ^{11}B NMR Studies of Coinage Metal Complexes Containing a Phosphine Substituted Diboraaanthracene Ligand. <i>Dalton Transactions</i> , 2021, 50, 14855-14863.	1.6	1
60	Organometallic Chemistry on Oxide Surfaces. , 2021, , .		0