Christopher P Gordon

List of Publications by Year
in descending order

46 papers	1,461 citations	331670 21 h-index	330143 37 g-index
47 all docs	47 docs citations	47 times ranked	1455 citing authors

#	Article	IF	Citations
1	Efficient epoxidation over dinuclear sites in titanium silicalite-1. Nature, 2020, 586, 708-713.	27.8	158
2	Active Sites in Supported Single-Site Catalysts: An NMR Perspective. Journal of the American Chemical Society, 2017, 139, 10588-10596.	13.7	103
3	In Situ XANES/XRD Study of the Structural Stability of Two-Dimensional Molybdenum Carbide Mo₂CT_x: Implications for the Catalytic Activity in the Waterâ€“Gas Shift Reaction. Chemistry of Materials, 2019, 31, 4505-4513.	6.7	100
4	Metathesis Activity Encoded in the Metallacyclobutane Carbon-13 NMR Chemical Shift Tensors. ACS Central Science, 2017, 3, 759-768.	11.3	84
5	Molecular and Silica-Supported Molybdenum Alkyne Metathesis Catalysts: Influence of Electronics and Dynamics on Activity Revealed by Kinetics, Solid-State NMR, and Chemical Shift Analysis. Journal of the American Chemical Society, 2017, 139, 17597-17607.	13.7	80
6	Carbon-13 NMR Chemical Shift: A Descriptor for Electronic Structure and Reactivity of Organometallic Compounds. Accounts of Chemical Research, 2019, 52, 2278-2289.	15.6	80
7	Exploiting and Understanding the Selectivity of Ru-N-Heterocyclic Carbene Metathesis Catalysts for the Ethenolysis of Cyclic Olefins to Î±,Ï‰-Dienes. Journal of the American Chemical Society, 2017, 139, 13117-13125.	13.7	70
8	Dynamic Nuclear Polarization Surface Enhanced NMR spectroscopy (DNP SENS): Principles, protocols, and practice. Current Opinion in Colloid and Interface Science, 2018, 33, 63-71.	7.4	58
9	Orbital Analysis of Carbonâ€13 Chemical Shift Tensors Reveals Patterns to Distinguish Fischer and Schrock Carbenes. Angewandte Chemie - International Edition, 2017, 56, 10127-10131.	13.8	57
10	â€œCanopy Catalystsâ€•for Alkyne Metathesis: Molybdenum Alkylidyne Complexes with a Tripodal Ligand Framework. Journal of the American Chemical Society, 2020, 142, 11279-11294.	13.7	56
11	Metal alkyls programmed to generate metal alkylidenes by Î±-H abstraction: prognosis from NMR chemical shift. Chemical Science, 2018, 9, 1912-1918.	7.4	47
12	Ï€-Bond Character in Metalâ€“Alkyl Compounds for Câ€“H Activation: How, When, and Why?. Journal of the American Chemical Society, 2019, 141, 648-656.	13.7	46
13	Olefin metathesis: what have we learned about homogeneous and heterogeneous catalysts from surface organometallic chemistry?. Chemical Science, 2021, 12, 3092-3115.	7.4	43
14	NMR chemical shift analysis decodes olefin oligo- and polymerization activity of d ⁰ group 4 metal complexes. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5867-E5876.	7.1	40
15	Alkyne gemâ€Hydrogenation: Formation of Pianostool Ruthenium Carbene Complexes and Analysis of Their Chemical Character. Angewandte Chemie - International Edition, 2019, 58, 8845-8850.	13.8	40
16	Promoting Terminal Olefin Metathesis with a Supported Cationic Molybdenum Imido Alkylidene Nâ€Heterocyclic Carbene Catalyst. Angewandte Chemie - International Edition, 2018, 57, 14566-14569.	13.8	39
17	The Structure of Molecular and Surface Platinum Sites Determined by DNP-SENS and Fast MAS¹⁹⁵Pt Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2020, 142, 18936-18945.	13.7	35
18	Nuclear Magnetic Resonance: A Spectroscopic Probe to Understand the Electronic Structure and Reactivity of Molecules and Materials. Journal of Physical Chemistry Letters, 2021, 12, 2072-2085.	4.6	31

#	Article	IF	Citations
19	Colloidal-ALD-Grown Core/Shell CdSe/CdS Nanoplatelets as Seen by DNP Enhanced PASSâ€“PIETA NMR Spectroscopy. Nano Letters, 2020, 20, 3003-3018.	9.1	24
20	Cp₂Ti(Î¹²-^tBuNCN^tBu): A Complex with an Unusual Î¹² Coordination Mode of a Heterocumulene Featuring a Free Carbene. Journal of the American Chemical Society, 2020, 142, 8006-8018.	13.7	24
21	Metal Olefin Complexes: Revisiting theDewarâChattâDuncansonModel and Deriving Reactivity Patterns from Carbonâ€13 NMR Chemical Shift. Helvetica Chimica Acta, 2019, 102, e1900151.	1.6	22
22	¹⁸³W NMR Spectroscopy Guides the Search for Tungsten Alkylidyne Catalysts for Alkyne Metathesis. Angewandte Chemie - International Edition, 2020, 59, 21758-21768.	13.8	22
23	A reactive coordinatively saturated Mo(<scp>iii</scp>) complex: exploiting the hemi-lability of tris(tert-butoxy)silanolate ligands. Chemical Science, 2019, 10, 6362-6367.	7.4	21
24	Alkyne gemâ€Hydrogenation: Formation of Pianostool Ruthenium Carbene Complexes and Analysis of Their Chemical Character. Angewandte Chemie, 2019, 131, 8937-8942.	2.0	20
25	Silicaâ€Supported Molybdenum Oxo Alkylidenes: Bridging the Gap between Internal and Terminal Olefin Metathesis. Angewandte Chemie - International Edition, 2019, 58, 11816-11819.	13.8	19
26	Oxygen transfer in electrophilic epoxidation probed by 17O NMR: differentiating between oxidants and role of spectator metal oxo. Chemical Science, 2019, 10, 1786-1795.	7.4	16
27	Understanding 125Te NMR chemical shifts in disymmetric organo-telluride compounds from natural chemical shift analysis. Physical Chemistry Chemical Physics, 2020, 22, 2319-2326.	2.8	16
28	Lowâ€Coordinated Titanium(III) Alkylâ€"Molecular and Surfaceâ€"Complexes: Detailed Structure from Advanced EPR Spectroscopy. Angewandte Chemie - International Edition, 2018, 57, 14533-14537.	13.8	15
29	Orbital Analysis of Carbonâ€13 Chemical Shift Tensors Reveals Patterns to Distinguish Fischer and Schrock Carbenes. Angewandte Chemie, 2017, 129, 10261-10265.	2.0	13
30	Promoting Terminal Olefin Metathesis with a Supported Cationic Molybdenum Imido Alkylidene Nâ€Heterocyclic Carbene Catalyst. Angewandte Chemie, 2018, 130, 14774-14777.	2.0	13
31	Olefin Epoxidation Catalyzed by Titaniumâ€"Salalen Complexes: Synergistic H₂O₂ Activation by Dinuclear Ti Sites, Ligand H-Bonding, and Ï€-Acidity. ACS Catalysis, 2021, 11, 3206-3217.	11.2	13
32	Metal Alkyls with Alkylidynic Metalâ€Carbon Bond Character: Key Electronic Structures in Alkane Metathesis Precatalysts. Angewandte Chemie - International Edition, 2020, 59, 7035-7041.	13.8	10
33	Câ€"H Activation and Olefin Insertion in d⁸ and d⁰ Complexes: Same Elementary Steps, Different Electronics. Helvetica Chimica Acta, 2020, 103, e1900278.	1.6	8
34	Silicaâ€Grafted Tris(neopentyl)aluminum: A Monomeric Aluminum Solid Coâ€catalyst for Efficient Nickelâ€Catalyzed Ethene Dimerization. Angewandte Chemie - International Edition, 2020, 59, 16167-16172.	13.8	8
35	Molecular and Silicaâ€Supported Mo and W d⁰ Imidoâ€Methoxybenzylidene Complexes: Structure and Metathesis Activity. Helvetica Chimica Acta, 2019, 102, e1900190.	1.6	5
36	Reactivity of Substituted Benzenes toward Oxidative Addition Relates to NMR Chemical Shift of the Ipso-Carbon. Organic Letters, 2020, 22, 8910-8915.	4.6	5

#	Article	IF	Citations
37	An Anionic Dinuclear Ruthenium Dihydrogen Complex of Relevance for Alkyne gemâ€Hydrogenation. Angewandte Chemie - International Edition, 2022, , .	13.8	5
38	Silicaâ€Supported Molybdenum Oxo Alkylidenes: Bridging the Gap between Internal and Terminal Olefin Metathesis. Angewandte Chemie, 2019, 131, 11942-11945.	2.0	3
39	Chemical Shift Tensors â€“ Why Should We Care?. Chimia, 2019, 73, 252.	0.6	3
40	Lowâ€Coordinated Titanium(III) Alkylâ€"Molecular and Surfaceâ€"Complexes: Detailed Structure from Advanced EPR Spectroscopy. Angewandte Chemie, 2018, 130, 14741-14745.	2.0	2
41	Spirocyclic Nitroxide Biradicals: Synthesis and Evaluation as Dynamic Nuclear Polarizing Agents. Helvetica Chimica Acta, 2020, 103, e2000179.	1.6	2
42	183 W NMR Spectroscopy Guides the Search for Tungsten Alkylidyne Catalysts for Alkyne Metathesis. Angewandte Chemie, 2020, 132, 21942-21952.	2.0	1
43	Probing the Electronic Structure of Spectator Oxo Ligands by 17O NMR Spectroscopy. Chimia, 2020, 74, 225.	0.6	1
44	Silicaâ€Grafted Tris(neopentyl)aluminum: A Monomeric Aluminum Solid Coâ€catalyst for Efficient Nickelâ€Catalyzed Ethene Dimerization. Angewandte Chemie, 2020, 132, 16301-16306.	2.0	1
45	Metal Alkyls with Alkylidynic Metalâ€Carbon Bond Character: Key Electronic Structures in Alkane Metathesis Precatalysts. Angewandte Chemie, 2020, 132, 7101-7107.	2.0	0
46	An Anionic Dinuclear Ruthenium Dihydrogen Complex of Relevance for Alkyne gemâ€Hydrogenation. Angewandte Chemie, 0, , .	2.0	0