Alasdair I Mckay

List of Publications by Year
in descending order

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37 papers	778 citations	516215 16 h-index	552369 26 g-index
37 all docs	37 docs citations	37 times ranked	854 citing authors

#	Article	IF	Citations
1	Solventâ€independent Molecular Weight Determination of Polymers Based on a Truly Universal Calibration. Angewandte Chemie - International Edition, 2022, 61, .	7.2	18
2	Carbodiphosphorane-Stabilized Parent Dioxophosphorane: A Valuable Synthetic HO₂P Source. Journal of the American Chemical Society, 2022, 144, 7357-7365.	6.6	7
3	Using electrospray ionizationâ€tandem mass spectrometry to explore formation and gasâ€phase chemistry of silver nanoclusters generated from the reaction of silver salts with NaBH 4 in the presence of bis(diphenylarsino)methane. Journal of Mass Spectrometry, 2021, 56, e4590.	0.7	1
4	A Series of Crystallographically Characterized Linear and Branched Ïƒ-Alkane Complexes of Rhodium: From Propane to 3-Methylpentane. Journal of the American Chemical Society, 2021, 143, 5106-5120.	6.6	16
5	Stereoelectronic Characterization and Catalytic Potential of a 1,3â€Bis(2,6â€terphenyl)â€Substituted Nâ€Heterocyclic Carbene. European Journal of Inorganic Chemistry, 2021, 2021, 2133-2140.	1.0	1
6	Examination of N,N-dimethylbenzylamine as a substrate for ruthenium-catalysed C-H (thio)amidation: A mass spectrometry and DFT directed study. Journal of Organometallic Chemistry, 2021, 950, 121973.	0.8	1
7	Synthesis of Highly Fluorinated Arene Complexes of [Rh(Chelating Phosphine)]⁺ Cations, and their use in Synthesis and Catalysis. Chemistry - A European Journal, 2020, 26, 2883-2889.	1.7	9
8	Facile synthesis of well-controlled poly(1-vinyl imidazole) by the RAFT process. Polymer Chemistry, 2020, 11, 5649-5658.	1.9	20
9	Iridium-catalysed 3,5-bis-borylation of phthalonitrile enables access to a family of C_{4h} octaarylphthalocyanines. Chemical Communications, 2020, 56, 8452-8455.	2.2	2
10	Tolerant to air Ïƒ-alkane complexes by surface modification of single crystalline solid-state molecular organometallics using vapour-phase cationic polymerisation: SMOM@polymer. Chemical Communications, 2020, 56, 4328-4331.	2.2	7
11	Mechanistic Studies of the Palladium-Catalyzed Desulfinative Cross-Coupling of Aryl Bromides and (Hetero)Aryl Sulfinate Salts. Journal of the American Chemical Society, 2020, 142, 3564-3576.	6.6	25
12	Identification of the Side Products That Diminish the Yields of the Monoamidated Product in Metal-Catalyzed Câ€“H Amidation of 2-Phenylpyridine with Arylisocyanates. Journal of Organic Chemistry, 2020, 85, 2680-2687.	1.7	9
13	Palladium-Mediated CO2 Extrusion Followed by Insertion of Isocyanates for the Synthesis of Benzamides: Translating Fundamental Mechanistic Studies To Develop a Catalytic Protocol. Organometallics, 2020, 39, 453-467.	1.1	17
14	Heteroleptic lead and aluminium complexes ligated by a bulky non-symmetrical triazenide. Journal of Organometallic Chemistry, 2020, 916, 121204.	0.8	3
15	Bulky bis(aryl)triazenides: just aspiring amidinates? A structural and spectroscopic study. Dalton Transactions, 2020, 49, 5653-5661.	1.6	10
16	Kinetic stabilization of low-oxidation state and terminal hydrido main group metal complexes by a sterically demanding N,Nâ€²-bis(2,6-terphenyl)triazenide. Dalton Transactions, 2019, 48, 13197-13204.	1.6	17
17	An exceptionally stable NHC complex of indane (InH₃). Dalton Transactions, 2019, 48, 1591-1594.	1.6	12
18	Coordinative versatility in main group complexes of C-2,6-terphenyl substituted amidinates. Polyhedron, 2019, 170, 424-430.	1.0	7

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19	Room Temperature Acceptorless Alkane Dehydrogenation from Molecular Ïƒ-Alkane Complexes. Journal of the American Chemical Society, 2019, 141, 11700-11712.	6.6	37
20	Dehydropolymerization of H₃BÂ·NMeH₂ Using a [Rh(DPEphos)]⁺ Catalyst: The Promoting Effect of NMeH₂. ACS Catalysis, 2019, 9, 3657-3666.	5.5	40
21	Structural diversity in a homologous series of donor free alkali metal complexes bearing a sterically demanding triazenide. Dalton Transactions, 2019, 48, 2948-2952.	1.6	15
22	Structural characterization and gas-phase studies of the [Ag₁₀H₈(L)₆]²⁺ nanocluster dication. Nanoscale, 2019, 11, 22880-22889.	2.8	16
23	Encapsulation of Crabtree's Catalyst in Sulfonated MIL-101(Cr): Enhancement of Stability and Selectivity between Competing Reaction Pathways by the MOF Chemical Microenvironment. Angewandte Chemie, 2018, 130, 4622-4627.	1.6	7
24	Encapsulation of Crabtree's Catalyst in Sulfonated MILâ€101(Cr): Enhancement of Stability and Selectivity between Competing Reaction Pathways by the MOF Chemical Microenvironment. Angewandte Chemie - International Edition, 2018, 57, 4532-4537.	7.2	52
25	Dehydropolymerization of H₃BÂ·NMeH₂ To Form Polyaminoboranes Using [Rh(Xantphos-alkyl)] Catalysts. Journal of the American Chemical Society, 2018, 140, 1481-1495.	6.6	83
26	Modulation of Ïƒ-Alkane Interactions in [Rh(L₂)(alkane)]⁺ Solid-State Molecular Organometallic (SMOM) Systems by Variation of the Chelating Phosphine and Alkane: Access to Î·²,Î·²-Ïƒ-Alkane Rh(I), Î·¹-Ïƒ-Alkane Rh(III) Complexes, and Alkane Encapsulation. Journal of the American Chemical Society, 2018, 140, 14958-14970.	6.6	34
27	Controlling Structure and Reactivity in Cationic Solid-State Molecular Organometallic Systems Using Anion Templating. Organometallics, 2018, 37, 3524-3532.	1.1	14
28	Fluoroarene Complexes with Small Bite Angle Bisphosphines: Routes to Amineâ€“Borane and Aminoborylene Complexes. European Journal of Inorganic Chemistry, 2017, 2017, 4533-4540.	1.0	16
29	Exploiting Carbonyl Groups to Control Intermolecular Rhodium-Catalyzed Alkene and Alkyne Hydroacylation. Journal of the American Chemical Society, 2017, 139, 10142-10149.	6.6	50
30	Solid-state molecular organometallic chemistry. Single-crystal to single-crystal reactivity and catalysis with light hydrocarbon substrates. Chemical Science, 2017, 8, 6014-6029.	3.7	44
31	Formation of a Ïƒ-alkane Complex and a Molecular Rearrangement in the Solid-State: [Rh(Cyp₂PCH₂CH₂PCyp₂)(Î·²:Î·²-C₇H₈)]. Organometallics, 2017, 36, 22-25.	2.4	11
32	Transition Metal Alkane-Sigma Complexes. Advances in Organometallic Chemistry, 2016, 66, 223-276.	0.5	32
33	Observation of Cationic Transition Metalâ€“Alkane Complexes with Moderate Stability in Hydrofluorocarbon Solution. Journal of the American Chemical Society, 2016, 138, 281-288.	6.6	35
34	Aluminum and Indium Complexes derived from Guanidines, Triazenes, and Amidines. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 2233-2244.	0.6	28
35	The stabilization of gallane and indane by a ring expanded carbene. Dalton Transactions, 2015, 44, 498-500.	1.6	22
36	Low valent and hydride complexes of NHC coordinated gallium and indium. Dalton Transactions, 2012, 41, 946-952.	1.6	36

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37	Solventâ€independent Molecular Weight Determination of Polymers Based on a Truly Universal Calibration. Angewandte Chemie, 0, , .	1.6	7