

Alasdair I Mckay

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Dehydropolymerization of H ₃ B-NMeH ₂ To Form Polyaminoboranes Using [Rh(Xantphos-alkyl)] Catalysts. <i>Journal of the American Chemical Society</i> , 2018, 140, 1481-1495.	6.6	83
2	Encapsulation of Crabtree's Catalyst in Sulfonated MIL-101(Cr): Enhancement of Stability and Selectivity between Competing Reaction Pathways by the MOF Chemical Microenvironment. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4532-4537.	7.2	52
3	Exploiting Carbonyl Groups to Control Intermolecular Rhodium-Catalyzed Alkene and Alkyne Hydroacylation. <i>Journal of the American Chemical Society</i> , 2017, 139, 10142-10149.	6.6	50
4	Solid-state molecular organometallic chemistry. Single-crystal to single-crystal reactivity and catalysis with light hydrocarbon substrates. <i>Chemical Science</i> , 2017, 8, 6014-6029.	3.7	44
5	Dehydropolymerization of H ₃ B-NMeH ₂ Using a [Rh(DPEphos)] ⁺ Catalyst: The Promoting Effect of NMeH ₂ . <i>ACS Catalysis</i> , 2019, 9, 3657-3666.	5.5	40
6	Room Temperature Acceptorless Alkane Dehydrogenation from Molecular σ -Alkane Complexes. <i>Journal of the American Chemical Society</i> , 2019, 141, 11700-11712.	6.6	37
7	Low valent and hydride complexes of NHC coordinated gallium and indium. <i>Dalton Transactions</i> , 2012, 41, 946-952.	1.6	36
8	Observation of Cationic Transition Metal- σ -Alkane Complexes with Moderate Stability in Hydrofluorocarbon Solution. <i>Journal of the American Chemical Society</i> , 2016, 138, 281-288.	6.6	35
9	Modulation of σ -Alkane Interactions in [Rh(L ₂)(alkane)] ⁺ Solid-State Molecular Organometallic (SMOM) Systems by Variation of the Chelating Phosphine and Alkane: Access to σ , σ - σ -Alkane Rh(I), σ -Alkane Rh(III) Complexes, and Alkane Encapsulation. <i>Journal of the American Chemical Society</i> , 2018, 140, 14958-14970.	6.6	34
10	Transition Metal Alkane-Sigma Complexes. <i>Advances in Organometallic Chemistry</i> , 2016, 66, 223-276.	0.5	32
11	Aluminum and Indium Complexes derived from Guanidines, Triazenes, and Amidines. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 2233-2244.	0.6	28
12	Formation of a σ -alkane Complex and a Molecular Rearrangement in the Solid-State: [Rh(Cyp ₂ PCH ₂ CH ₂ PCyp ₂)(σ -C ₇ H ₈)]. <i>Organometallics</i> , 2017, 36, 22-25.		
13	Mechanistic Studies of the Palladium-Catalyzed Desulfinate Cross-Coupling of Aryl Bromides and (Hetero)Aryl Sulfinate Salts. <i>Journal of the American Chemical Society</i> , 2020, 142, 3564-3576.	6.6	25
14	The stabilization of gallane and indane by a ring expanded carbene. <i>Dalton Transactions</i> , 2015, 44, 498-500.	1.6	22
15	Facile synthesis of well-controlled poly(1-vinyl imidazole) by the RAFT process. <i>Polymer Chemistry</i> , 2020, 11, 5649-5658.	1.9	20
16	Solvent-Independent Molecular Weight Determination of Polymers Based on a Truly Universal Calibration. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	18
17	Kinetic stabilization of low-oxidation state and terminal hydrido main group metal complexes by a sterically demanding σ -N ₂ -bis(2,6-terphenyl)triazenide. <i>Dalton Transactions</i> , 2019, 48, 13197-13204.	1.6	17
18	Palladium-Mediated CO ₂ Extrusion Followed by Insertion of Isocyanates for the Synthesis of Benzamides: Translating Fundamental Mechanistic Studies To Develop a Catalytic Protocol. <i>Organometallics</i> , 2020, 39, 453-467.	1.1	17

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19	Fluoroarene Complexes with Small Bite Angle Bisphosphines: Routes to Amine-Borane and Aminoborylene Complexes. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 4533-4540.	1.0	16
20	Structural characterization and gas-phase studies of the $[Ag_{10}H_8(L)_6]^{2+}$ nanocluster dication. <i>Nanoscale</i> , 2019, 11, 22880-22889.	2.8	16
21	A Series of Crystallographically Characterized Linear and Branched η^f -Alkane Complexes of Rhodium: From Propane to 3-Methylpentane. <i>Journal of the American Chemical Society</i> , 2021, 143, 5106-5120.	6.6	16
22	Structural diversity in a homologous series of donor free alkali metal complexes bearing a sterically demanding triazenide. <i>Dalton Transactions</i> , 2019, 48, 2948-2952.	1.6	15
23	Controlling Structure and Reactivity in Cationic Solid-State Molecular Organometallic Systems Using Anion Templating. <i>Organometallics</i> , 2018, 37, 3524-3532.	1.1	14
24	An exceptionally stable NHC complex of indane (InH_3). <i>Dalton Transactions</i> , 2019, 48, 1591-1594.	1.6	12
25	Bulky bis(aryl)triazenides: just aspiring amidinates? A structural and spectroscopic study. <i>Dalton Transactions</i> , 2020, 49, 5653-5661.	1.6	10
26	Synthesis of Highly Fluorinated Arene Complexes of $[Rh(\text{Chelating Phosphine})]^+$ Cations, and their use in Synthesis and Catalysis. <i>Chemistry - A European Journal</i> , 2020, 26, 2883-2889.	1.7	9
27	Identification of the Side Products That Diminish the Yields of the Monoamidated Product in Metal-Catalyzed C-H Amidation of 2-Phenylpyridine with Arylisocyanates. <i>Journal of Organic Chemistry</i> , 2020, 85, 2680-2687.	1.7	9
28	Encapsulation of Crabtree's Catalyst in Sulfonated MIL-101(Cr): Enhancement of Stability and Selectivity between Competing Reaction Pathways by the MOF Chemical Microenvironment. <i>Angewandte Chemie</i> , 2018, 130, 4622-4627.	1.6	7
29	Coordinative versatility in main group complexes of C-2,6-terphenyl substituted amidinates. <i>Polyhedron</i> , 2019, 170, 424-430.	1.0	7
30	Tolerant to air η^f -alkane complexes by surface modification of single crystalline solid-state molecular organometallics using vapour-phase cationic polymerisation: SMOM@polymer. <i>Chemical Communications</i> , 2020, 56, 4328-4331.	2.2	7
31	Solvent-Independent Molecular Weight Determination of Polymers Based on a Truly Universal Calibration. <i>Angewandte Chemie</i> , 0, , .	1.6	7
32	Carbodiphosphorane-Stabilized Parent Dioxophosphorane: A Valuable Synthetic HO_2P Source. <i>Journal of the American Chemical Society</i> , 2022, 144, 7357-7365.	6.6	7
33	Heteroleptic lead and aluminium complexes ligated by a bulky non-symmetrical triazenide. <i>Journal of Organometallic Chemistry</i> , 2020, 916, 121204.	0.8	3
34	Iridium-catalysed 3,5-bis-borylation of phthalonitrile enables access to a family of C_{4h} octaarylphthalocyanines. <i>Chemical Communications</i> , 2020, 56, 8452-8455.	2.2	2
35	Using electrospray ionization-tandem mass spectrometry to explore formation and gas-phase chemistry of silver nanoclusters generated from the reaction of silver salts with $NaBH_4$ in the presence of bis(diphenylarsino)methane. <i>Journal of Mass Spectrometry</i> , 2021, 56, e4590.	0.7	1
36	Stereoelectronic Characterization and Catalytic Potential of a 1,3-Bis(2,6-terphenyl)-Substituted N-Heterocyclic Carbene. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 2133-2140.	1.0	1

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37	Examination of N,N-dimethylbenzylamine as a substrate for ruthenium-catalysed C-H (thio)amidation: A mass spectrometry and DFT directed study. <i>Journal of Organometallic Chemistry</i> , 2021, 950, 121973.	0.8	1