Christian Ehm

List of Publications by Year in Descending Order

49 papers	709 citations	16 h-index	23 g-index
57 ext. papers	853 ext. citations	6.2 avg, IF	4.53 L-index

#	Paper	IF	Citations
49	Role of Solvent Coordination on the Structure and Dynamics of ansa-Zirconocenium Ion Pairs in Aromatic Hydrocarbons. *Organometallics*, **2022**, 41, 547-560	3.8	2
48	Stabilizing Effect of Pre-equilibria: A Trifluoromethyl Complex as a CF2 Reservoir in Catalytic Olefin Difluorocarbenation. *ACS Catalysis*, **2022**, 12, 3719-3730	13.1	1
47	A high-throughput approach to repurposing olefin polymerization catalysts for polymer upcycling.. *Angewandte Chemie - International Edition*, **2022**,	16.4	2
46	Methylaluminoxane Molecular Cousin: A Well-defined and Complete Al-Activator for Molecular Olefin Polymerization Catalysts. *ACS Catalysis*, **2021**, 11, 4464-4475	13.1	10
45	Polyolefin chain shuttling at ansa-metallocene catalysts: legend and reality. *European Polymer Journal*, **2021**, 150, 110396	5.2	0
44	-Zirconocene Catalysts for Isotactic-Selective Propene Polymerization at High Temperature: A Long Story Finds a Happy Ending. *Journal of the American Chemical Society*, **2021**, 143, 7641-7647	16.4	14
43	Cyclic polyacetylene. *Nature Chemistry*, **2021**, 13, 792-799	17.6	10
42	SPAAC iClick: progress towards a bioorthogonal reaction in-corporating metal ions. *Dalton Transactions*, **2021**, 50, 12681-12691	4.3	3
41	Probing alkyl elimination and selectivity in polyolefin hydrogenolysis through DFT. *Catalysis Science and Technology*, **2021**, 11, 6155-6162	5.5	1
40	Between T and Y: Asymmetry in the Interaction of LAu(I) with Bipy and Diiminate-like Ligands. *European Journal of Inorganic Chemistry*, **2021**, 2021, 314-320	2.3	0
39	Chain Transfer to Solvent and Monomer in Early Transition Metal Catalyzed Olefin Polymerization: Mechanisms and Implications for Catalysis. *Catalysts*, **2021**, 11, 215	4	7
38	Hafnium vs. Zirconium, the Perpetual Battle for Supremacy in Catalytic Olefin Polymerization: A Simple Matter of Electrophilicity?. *Polymers*, **2021**, 13,	4.5	3
37	An Integrated High Throughput Experimentation/Predictive QSAR Modeling Approach to -Zirconocene Catalysts for Isotactic Polypropylene. *Polymers*, **2020**, 12,	4.5	19
36	C-Symmetric Si-bridged (2-indenyl)(1-indenyl) ansa-metallocenes as efficient ethene/1-hexene copolymerization catalysts. *Dalton Transactions*, **2020**, 49, 3015-3025	4.3	12
35	On the Nature of the Lewis Acidic Sites in MA-Free Phenol-Modified Methylaluminoxane. *European Journal of Inorganic Chemistry*, **2020**, 2020, 1088-1095	2.3	14
34	High-Throughput Experimentation in Olefin Polymerization Catalysis: Facing the Challenges of Miniaturization. *Industrial & Engineering Chemistry Research*, **2020**, 59, 13940-13947	3.9	13
33	On the limits of tuning comonomer affinity of 'Spaleck-type'ansa-zirconocenes in ethene/1-hexene copolymerization: a high-throughput experimentation/QSAR approach. *Dalton Transactions*, **2020**, 49, 10162-10172	4.3	13

32	A Systematic Study of the Temperature-Induced Performance Decline of ansa-Metallocenes for iPP. *Macromolecules*, **2020**, 53, 9325-9336	5.5	14
31	Reactivity Trends of Lewis Acidic Sites in Methylaluminoxane and Some of Its Modifications. *Inorganic Chemistry*, **2020**, 59, 5751-5759	5.1	15
30	Selective Copper Complex-Catalyzed Hydrodefluorination of Fluoroalkenes and Allyl Fluorides: A Tale of Two Mechanisms. *Journal of the American Chemical Society*, **2019**, 141, 11506-11521	16.4	24
29	Separating Electronic from Steric Effects in Ethene/α-Olefin Copolymerization: A Case Study on Octahedral [ONNO] Zr-Catalysts. *Processes*, **2019**, 7, 384	2.9	6
28	BHT-Modified MAO: Cage Size Estimation, Chemical Counting of Strongly Acidic Al Sites, and Activation of a Ti-Phosphinimide Precatalyst. *ACS Catalysis*, **2019**, 9, 2996-3010	13.1	16
27	From Mechanistic Investigation to Quantitative Prediction **2019**, 287-326		3
26	MgCl2-Supported Ziegler–Natta Catalysts: a DFT-D "Flexible-Cluster" Approach to Internal Donor Adducts. *Journal of Physical Chemistry C*, **2018**, 122, 9046-9053	3.8	22
25	Internal Donors in Ziegler–Natta Systems: is Reduction by AlR3 a Requirement for Donor Clean-Up?. *ChemCatChem*, **2018**, 10, 863-863	5.2	1
24	Organocatalytic C-F Bond Activation with Alanes. *Chemistry - A European Journal*, **2018**, 24, 6769-6777	4.8	16
23	Internal Donors in Ziegler–Natta Systems: is Reduction by AlR3 a Requirement for Donor Clean-Up?. *ChemCatChem*, **2018**, 10, 984-988	5.2	16
22	Gallium Hydrides and O/N-Donors as Tunable Systems in C-F Bond Activation. *Chemistry - an Asian Journal*, **2018**, 13, 2908-2915	4.5	7
21	Toluene and α-Olefins as Radical Scavengers: Direct NMR Evidence for Homolytic Chain Transfer Mechanism Leading to Benzyl and "Dormant" Titanium Allyl Complexes. *Organometallics*, **2018**, 37, 4189-4194	3.8	11
20	Connection of Stereoselectivity, Regioselectivity, and Molecular Weight Capability in rac-R?2Si(2-Me-4-R-indenyl)2ZrCl2 Type Catalysts. *Macromolecules*, **2018**, 51, 8073-8083	5.5	32
19	MgCl2-supported Ziegler-Natta catalysts: A DFT-D "flexible-cluster" approach. TiCl4 and probe donor adducts. *International Journal of Quantum Chemistry*, **2018**, 118, e25721	2.1	11
18	Catalyst Mileage in Olefin Polymerization: The Peculiar Role of Toluene. *Organometallics*, **2018**, 37, 2872-2879	3.8	14
17	Accurate Prediction of Copolymerization Statistics in Molecular Olefin Polymerization Catalysis: The Role of Entropic, Electronic, and Steric Effects in Catalyst Comonomer Affinity. *ACS Catalysis*, **2017**, 7, 1512-1519	13.1	42
16	Metal–carbon bond strengths under polymerization conditions: 2,1-insertion as a catalyst stress test. *Journal of Catalysis*, **2017**, 351, 146-152	7.3	17
15	Backbone rearrangement during olefin capture as the rate limiting step in molecular olefin polymerization catalysis and its effect on comonomer affinity. *Journal of Polymer Science Part A*, **2017**, 55, 2807-2814	2.5	31

14	Tuning the Relative Energies of Propagation and Chain Termination Barriers in Polyolefin Catalysis through Electronic and Steric Effects. *European Journal of Inorganic Chemistry*, **2017**, 2017, 3343-3349	2.3	18
13	Competition of Nucleophilic Aromatic Substitution, β-Bond Metathesis, and syn Hydrometalation in Titanium(III)-Catalyzed Hydrodefluorination of Arenes. *Chemistry - an Asian Journal*, **2016**, 11, 3062-3071	4.5	12
12	Chain Transfer to Solvent in Propene Polymerization with Ti Cp-phosphinimide Catalysts: Evidence for Chain Termination via Ti–C Bond Homolysis. *ACS Catalysis*, **2016**, 6, 7989-7993	13.1	28
11	Role(s) of TMA in polymerization. *Dalton Transactions*, **2016**, 45, 6847-55	4.3	54
10	How a Thermally Unstable Metal Hydrido Complex Can Yield High Catalytic Activity Even at Elevated Temperatures. *Chemistry - A European Journal*, **2016**, 22, 9305-10	4.8	19
9	Improving selectivity in catalytic hydrodefluorination by limiting SV reactivity. *Dalton Transactions*, **2016**, 45, 16789-16798	4.3	11
8	Structure and Chemistry of SeFx(CN)4-x Compounds. *Inorganic Chemistry*, **2015**, 54, 5220-31	5.1	12
7	Calculating accurate barriers for olefin insertion and related reactions. *Journal of Organometallic Chemistry*, **2015**, 775, 39-49	2.3	47
6	Catalyst activation and the dimerization energy of alkylaluminium compounds. *Journal of Organometallic Chemistry*, **2014**, 772-773, 161-171	2.3	55
5	Cyclic dimers of tetrafluorobutatriene. *Theoretical Chemistry Accounts*, **2011**, 129, 507-515	1.9	3
4	Partially fluorinated butatrienes: a coupled cluster study. *Journal of Physical Chemistry A*, **2010**, 114, 3609-14	2.8	4
3	Diels-Alder reactions of 1,1,4,4-tetrafluorobutatriene. *Chemical Communications*, **2010**, 46, 2399-401	5.8	11
2	Fluorinated butatrienes. *Journal of Fluorine Chemistry*, **2010**, 131, 1173-1181	2.1	13
1	Selection of Low-Dimensional 3-D Geometric Descriptors for Accurate Enantioselectivity Prediction. *ACS Catalysis*,6934-6945	13.1	