

Andreas J Vorholt

List of Publications by Citations

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105
papers

1,457
citations

21
h-index

31
g-index

120
ext. papers

1,761
ext. citations

5.9
avg, IF

5.22
L-index

#	Paper	IF	Citations
105	Towards resource efficient chemistry: tandem reactions with renewables. <i>Green Chemistry</i> , 2014 , 16, 982-1006	10	162
104	An overview of the biphasic dehydration of sugars to 5-hydroxymethylfurfural and furfural: a rational selection of solvents using COSMO-RS and selection guides. <i>Green Chemistry</i> , 2020 , 22, 2097-2128	18	66
103	Telomerization of Myrcene and Catalyst Separation by Thermomorphic Solvent Systems. <i>ChemCatChem</i> , 2010 , 2, 1271-1277	5.2	46
102	Highly integrated reactor-separator systems for the recycling of homogeneous catalysts. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016 , 99, 124-131	3.7	41
101	Jet loop reactors as a versatile reactor set up - Intensifying catalytic reactions: A review. <i>Chemical Engineering Science</i> , 2016 , 149, 229-248	4.4	40
100	Approaching Bulk Chemical Nitriles from Alkenes: A Hydrogen Cyanide-Free Approach through a Combination of Hydroformylation and Biocatalysis. <i>ACS Catalysis</i> , 2019 , 9, 5198-5203	13.1	39
99	Thermomorphic solvent selection for homogeneous catalyst recovery based on COSMO-RS. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016 , 99, 97-106	3.7	36
98	Recycling Homogeneous Catalysts Simply by Organic Solvent Nanofiltration: New Ways to Efficient Catalysis. <i>ChemCatChem</i> , 2016 , 8, 3330-3333	5.2	34
97	Thermomorphic Multiphase Systems: Switchable Solvent Mixtures for the Recovery of Homogeneous Catalysts in Batch and Flow Processes. <i>Chemistry - A European Journal</i> , 2019 , 25, 11586-11608	14.8	34
96	Recyclable homogeneous catalyst for the hydroesterification of methyl oleate in thermomorphic solvent systems. <i>Chemical Engineering Science</i> , 2013 , 99, 38-43	4.4	34
95	Overcoming Phase-Transfer Limitations in the Conversion of Lipophilic Oleo Compounds in Aqueous Media-A Thermomorphic Approach. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 2924-8	16.4	33
94	Diester monomers from methyl oleate and proline via tandem hydroaminomethylation-esterification sequence with homogeneous catalyst recycling using TMS-technique. <i>European Journal of Lipid Science and Technology</i> , 2014 , 116, 477-485	3	31
93	Enantioselective tandem reactions at elevated temperatures: one-pot hydroformylation/SN1 alkylation. <i>Chemistry - A European Journal</i> , 2012 , 18, 9496-9	4.8	28
92	Linear Selective Isomerization/Hydroformylation of Unsaturated Fatty Acid Methyl Esters: A Bimetallic Approach. <i>ACS Catalysis</i> , 2017 , 7, 4163-4171	13.1	27
91	Merging Thermomorphic Solvent Systems and Organic Solvent Nanofiltration for Hybrid Catalyst Recovery in a Hydroformylation Process. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 13541-1359	3.9	25
90	Hydroesterification of methyl 10-undecenoate in thermomorphic multicomponent solvent systems-Process development for the synthesis of sustainable polymer precursors. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016 , 99, 197-204	3.7	25
89	The mission of addition and fission [catalytic functionalization of oleochemicals. <i>European Journal of Lipid Science and Technology</i> , 2016 , 118, 3-25	3	24

88	Increasing selectivity of the hydroformylation in a miniplant: Catalyst, solvent, and olefin recycle in two loops. <i>AIChE Journal</i> , 2016 , 62, 4377-4383	3.6	23
87	Hydroformylation and Related Reactions of Renewable Resources. <i>Topics in Organometallic Chemistry</i> , 2012 , 103-127	0.6	22
86	First efficient catalyst recycling for the iridium-catalysed hydroformylation of 1-octene. <i>Catalysis Science and Technology</i> , 2016 , 6, 208-214	5.5	21
85	In Situ Infrared Spectroscopy as a Tool for Monitoring Molecular Catalyst for Hydroformylation in Continuous Processes. <i>ACS Catalysis</i> , 2019 , 9, 4308-4319	13.1	21
84	Renewable Surfactants through the Hydroaminomethylation of Terpenes. <i>ChemCatChem</i> , 2017 , 9, 1359-1362	3.62	20
83	Intensified reactors for gas-liquid-liquid multiphase catalysis: From chemistry to engineering. <i>Chemical Engineering Journal</i> , 2019 , 372, 917-939	14.7	20
82	Liquid-Liquid Equilibria for the System Acetone + Solketal + Glycerol at (303.2, 313.2, and 323.2) K. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 2850-2855	2.8	20
81	The Telomerization of 1,3-Dienes – A Reaction Grows Up. <i>ChemCatChem</i> , 2019 , 11, 1153-1166	5.2	20
80	Toward Water-Based Recycling Techniques: Methodologies for Homogeneous Catalyst Recycling in Liquid/Liquid Multiphase Media and Their Implementation in Continuous Processes. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 2421-2436	3.9	20
79	Hydroformylation and tandem isomerization-Hydroformylation of n-decenes using a rhodium-BiPhePhos catalyst: Kinetic modeling, reaction network analysis and optimal reaction control. <i>Chemical Engineering Journal</i> , 2017 , 313, 382-397	14.7	19
78	Kinetic investigation of lean aqueous hydroformylation – An engineer’s view on homogeneous catalysis. <i>Chemical Engineering Journal</i> , 2017 , 326, 298-307	14.7	18
77	Tandem Reductive Hydroformylation of Castor Oil Derived Substrates and Catalyst Recycling by Selective Product Crystallization. <i>ChemCatChem</i> , 2017 , 9, 4319-4323	5.2	18
76	Ruthenium-catalyzed hydroformylation: from laboratory to continuous miniplant scale. <i>Catalysis Science and Technology</i> , 2016 , 6, 8072-8079	5.5	18
75	Palladium-Catalyzed Aminocarbonylation of Aliphatic Alkenes with N,N-Dimethylformamide as an In Situ Source of CO. <i>ChemCatChem</i> , 2015 , 7, 4085-4090	5.2	17
74	Katalysatorvergleich bei der Hydroesterifizierung von 10-Undecensäuremethylester in thermomorphen Lösungsmittelsystemen. <i>Chemie-Ingenieur-Technik</i> , 2016 , 88, 158-167	0.8	17
73	Catalyst recycling in the hydroaminomethylation of methyl oleate: A route to novel polyamide monomers. <i>European Journal of Lipid Science and Technology</i> , 2017 , 119, 1600211	3	16
72	Homogeneous Catalysis with Renewables. <i>Catalysis By Metal Complexes</i> , 2017 ,		16
71	Tertiary Amines as Ligands in a Four-Step Tandem Reaction of Hydroformylation and Hydrogenation: An Alternative Route to Industrial Diol Monomers. <i>ChemCatChem</i> , 2017 , 9, 1436-1441	5.2	15

70	Isomerization/hydroformylation tandem reaction of a decene isomeric mixture with subsequent catalyst recycling in thermomorphic solvent systems. <i>Applied Catalysis A: General</i> , 2017 , 532, 50-56	5.1	15
69	Recycling of homogeneous catalysts in reactive ionic liquid solvent-free aminofunctionalizations of alkenes. <i>Green Chemistry</i> , 2017 , 19, 5243-5249	10	15
68	Acceleration of lean aqueous hydroformylation in an innovative jet loop reactor concept. <i>Chemical Engineering Journal</i> , 2017 , 330, 585-595	14.7	15
67	Procedural Rate Enhancement of Lean Aqueous Hydroformylation of 1-Octene without Additives. <i>Chemical Engineering and Technology</i> , 2017 , 40, 186-195	2	15
66	Einführung in die Technische Chemie 2016 ,		15
65	Non-ionic surfactants from renewables amphiphilic ligands in biphasic reactions. <i>Catalysis Science and Technology</i> , 2017 , 7, 1650-1653	5.5	13
64	Tandem Hydroformylation/Acyloin Reaction The Synergy of Metal Catalysis and Organocatalysis Yielding Acyloins Directly from Olefins. <i>Advanced Synthesis and Catalysis</i> , 2015 , 357, 1374-1380	5.6	13
63	Direct Synthesis of an Ester Diester from 2,7-Octadienol as Bulk Feedstock in Three Tandem Catalytic Steps. <i>Chemistry - A European Journal</i> , 2016 , 22, 1840-6	4.8	13
62	Rhodium-Catalyzed Bis-Hydroaminomethylation of Linear Aliphatic Alkenes with Piperazine. <i>Advanced Synthesis and Catalysis</i> , 2016 , 358, 610-621	5.6	12
61	Hydroaminomethylation in Aqueous Solvent Systems An Efficient Pathway to Highly Functionalized Amines. <i>Advanced Synthesis and Catalysis</i> , 2018 , 360, 1473-1482	5.6	11
60	Iterative Real-Time Optimization Scheme for Optimal Operation of Chemical Processes under Uncertainty: Proof of Concept in a Miniplant. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 8750-8770	3.9	11
59	Homogeneously catalyzed hydroamination in a Taylor-Couette reactor using a thermomorphic multicomponent solvent system. <i>Chemical Engineering Research and Design</i> , 2016 , 112, 263-273	5.5	11
58	Tailor-made biofuel 2-butyltetrahydrofuran from the continuous flow hydrogenation and deoxygenation of furfuralacetone. <i>Green Chemistry</i> , 2019 , 21, 6299-6306	10	11
57	Continuously Operated Hydroamination Toward High Catalytic Performance via Organic Solvent Nanofiltration in a Membrane Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 13634-13641 ¹⁰	3.9	10
56	Process development of the continuously operated synthesis of N,N- dimethylformamide based on carbon dioxide. <i>Journal of CO2 Utilization</i> , 2017 , 22, 184-190	7.6	10
55	Vom Laborkuriosum zum kontinuierlichen Prozess: Die Entwicklung thermomorpher Lösungsmittelsysteme. <i>Chemie-Ingenieur-Technik</i> , 2017 , 89, 252-262	0.8	10
54	An Old Friend in a New Guise Recent Trends in Homogeneous Transition Metal Catalysis. <i>ChemBioEng Reviews</i> , 2015 , 2, 6-21	5.2	10
53	Berwindung von Phasentransportlimitierungen in der Umsetzung lipophiler Oleoverbindungen in wässrigen Medien Ein temperaturgesteuerter Ansatz. <i>Angewandte Chemie</i> , 2016 , 128, 2977-2981	3.6	10

52	Obtaining glycerol carbonate and glycols using thermomorphic systems based on glycerol and cyclic organic carbonates: Kinetic studies. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 63, 124-132	6.3	9
51	Considerations on film reactivity in the aqueous biphasic hydroformylation. <i>AIChE Journal</i> , 2018 , 64, 161-171	3.6	9
50	Palladium-catalyzed hydroamination of farnesene—long chain amines as building blocks for surfactants based on a renewable feedstock. <i>Applied Catalysis A: General</i> , 2017 , 543, 173-179	5.1	8
49	From Carboxytelomerization of 1,3-Butadiene to Linear β -Diester Combinatoric Approaches for an Efficient Synthetic Route. <i>Chemistry - A European Journal</i> , 2018 , 24, 2264-2269	4.8	8
48	From Oleo Chemicals to Polymer: Bis-hydroaminomethylation as a Tool for the Preparation of a Synthetic Polymer from Renewables. <i>ChemCatChem</i> , 2016 , 8, 2890-2893	5.2	8
47	Decreasing Side Products and Increasing Selectivity in the Tandem Hydroformylation/Acyloin Reaction. <i>ChemCatChem</i> , 2015 , 7, 2607-2613	5.2	8
46	Identification of key mechanics in the ruthenium catalyzed synthesis of N,N-dimethylformamide from carbon dioxide in biphasic solvent systems. <i>Journal of Catalysis</i> , 2018 , 361, 45-50	7.3	7
45	Telomerization of 1,3-butadiene with highly substituted alcohols using Pd/NHC-catalysts \square Structure-reactivity-relationship of the O-nucleophile. <i>Journal of Molecular Catalysis A</i> , 2016 , 423, 526-532		7
44	Katalytische Funktionalisierungen von Oleylalkohol in thermomorphen Lösungsmittelsystemen zur Synthese potenzieller Biotenside und -Monomere. <i>Chemie-Ingenieur-Technik</i> , 2013 , 85, n/a-n/a	0.8	7
43	Synthesis of primary amines via linkage of hydroaminomethylation of olefins and splitting of secondary amines. <i>Applied Catalysis A: General</i> , 2018 , 550, 198-205	5.1	6
42	A comprehensive investigation and optimisation on the proteinogenic amino acid catalysed homo aldol condensation. <i>Tetrahedron</i> , 2016 , 72, 592-598	2.4	6
41	Neue Trends in der homogenen Übergangsmetallkatalyse. <i>Chemie-Ingenieur-Technik</i> , 2014 , 86, 2089-2104	0.8	6
40	Taylor-Couette reactor: Principles, design, and applications. <i>AIChE Journal</i> , 2021 , 67, e17228	3.6	6
39	Reductive hydroformylation with a selective and highly active rhodium amine system. <i>Journal of Catalysis</i> , 2021 , 400, 234-243	7.3	6
38	CO ₂ Based Synthesis of Various Formamides in Miniplant Scale: A Two-Step Process Design. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4924-4931	8.3	5
37	Terpene-Derived Highly Branched C ₃₀ -Amines via Palladium-Catalysed Telomerisation of β -Farnesene. <i>Advanced Synthesis and Catalysis</i> , 2018 , 360, 1984-1991	5.6	5
36	Synthesis of Industrial Primary Diamines via Intermediate Diols \square Combining Hydroformylation, Hydrogenation and Amination. <i>ChemCatChem</i> , 2018 , 10, 4126-4133	5.2	5
35	Recycling of two molecular catalysts in the hydroformylation/aldol condensation tandem reaction using one multiphase system. <i>Green Chemistry</i> , 2020 , 22, 8444-8451	10	4

34	Productivity Leap in the Homogeneous Ruthenium-Catalyzed Alcohol Amination through Catalyst Recycling Avoiding Volatile Organic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 9962-9987	8.3	4
33	One-step palladium catalysed synthetic route to unsaturated pelargonic C9-amides directly from 1,3-butadiene. <i>Journal of Catalysis</i> , 2018 , 365, 24-28	7.3	4
32	Palladium-catalysed carboxytelomerisation of β -myrcene to highly branched C21-esters. <i>Catalysis Science and Technology</i> , 2018 , 8, 4332-4337	5.5	4
31	An Approach to Chemical Reaction Engineering and Process Intensification for the Lean Aqueous Hydroformylation Using a Jet Loop Reactor. <i>Chemie-Ingenieur-Technik</i> , 2019 , 91, 560-566	0.8	3
30	Facile catalyst recycling by thermomorphic behaviour avoiding organic solvents: a reactive ionic liquid in the homogeneous Pd-catalysed telomerisation of the renewable β -myrcene. <i>Catalysis Science and Technology</i> , 2020 , 10, 1827-1834	5.5	3
29	One-pot synthesis of aldoximes from alkenes via Rh-catalysed hydroformylation in an aqueous solvent system. <i>Green Chemistry</i> , 2020 , 22, 7974-7982	10	3
28	Operando monitoring of mechanisms and deactivation of molecular catalysts. <i>Green Chemistry</i> , 2022 , 24, 1951-1972	10	3
27	Utilization of deep eutectic solvents based on choline chloride in the biphasic hydroformylation of 1-decene with rhodium complexes. <i>Catalysis Communications</i> , 2019 , 129, 105721	3.2	2
26	Towards a process for the telomerization of butadiene with N-methylglucamine. <i>Chemical Engineering Science</i> , 2018 , 181, 122-131	4.4	2
25	Merger of Johnson-Claissen rearrangement and alkoxycarbonylation for atom efficient diester synthesis. <i>Tetrahedron Letters</i> , 2016 , 57, 371-374	2	2
24	A general and efficient method for the palladium-catalysed conversion of allylic alcohols into their corresponding dienes. <i>Catalysis Science and Technology</i> , 2016 , 6, 1302-1305	5.5	2
23	Two sides of the same amino acid—development of a tandem aldol condensation/epoxidation by using the synergy of different catalytic centres in amino acids. <i>Applied Catalysis A: General</i> , 2016 , 509, 1-7	5.1	2
22	Auto-tandem catalytic reductive hydroformylation with continuous multiphase catalyst recycling. <i>Catalysis Science and Technology</i> ,	5.5	2
21	Commercial Cu Cr O Decorated with Iron Carbide Nanoparticles as a Multifunctional Catalyst for Magnetically Induced Continuous-Flow Hydrogenation of Aromatic Ketones. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 26639-26646	16.4	2
20	Green Process Design for Reductive Hydroformylation of Renewable Olefin Cuts for Drop-In Diesel Fuels. <i>ChemSusChem</i> , 2021 , 14, 5226-5234	8.3	2
19	Secondary diamines as a monomer from bis-hydroaminomethylation of industrial cyclic dienes. <i>Catalysis Science and Technology</i> , 2017 , 7, 5120-5127	5.5	1
18	Oleochemistry 2017 , 1579-1600		1
17	Solidified and Immobilized Heteropolyacids for the Valorization of Lignocellulose. <i>ChemCatChem</i> ,	5.2	1

16	Telomerisation of Renewables. <i>Catalysis By Metal Complexes</i> , 2017 , 81-91		1
15	Palladium Catalysed Acid-Free Carboxytelomerisation of 1,3-Butadiene with Alcohols Accessing Pelargonic Acid Derivatives Including Triglycerides under Selectivity Control. <i>Advanced Synthesis and Catalysis</i> , 2020 , 362, 679-687	5.6	1
14	Auto-Tandem Catalytic Reductive Hydroformylation in a CO-Switchable Solvent System.. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 3749-3756	8.3	1
13	Commercial Cu ₂ Cr ₂ O ₅ Decorated with Iron Carbide Nanoparticles as a Multifunctional Catalyst for Magnetically Induced Continuous-Flow Hydrogenation of Aromatic Ketones. <i>Angewandte Chemie</i> , 2021 , 133, 26843	3.6	0
12	Catalyst Recycling in the Reactive Distillation of Primary Alcohols to Olefins Using a Phosphoric Acid Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 5922-5931	8.3	0
11	Process Intensification of Aqueous Biphasic Hydroformylation of 1-Octene in a Jet Loop Reactor. <i>Chemie-Ingenieur-Technik</i> , 2016 , 88, 1300-1301	0.8	
10	Reaktoren für Fluid-Fluid-Reaktionen: Strahlröhrenreaktoren. <i>Springer Reference Naturwissenschaften</i> , 2018 , 1-28	0.2	
9	Reaktoren für Fluid-Fluid-Reaktionen: Strahlröhrenreaktoren. <i>Springer Reference Naturwissenschaften</i> , 2020 , 803-830	0.2	
8	Hydrogenation of Renewables. <i>Catalysis By Metal Complexes</i> , 2017 , 21-40		
7	Tandem Reactions with Renewables. <i>Catalysis By Metal Complexes</i> , 2017 , 107-154		
6	Continuously Operated Telomerisations with Renewables in Miniplants. <i>Catalysis By Metal Complexes</i> , 2017 , 155-162		
5	Hydroamination and Telomerisation of β -Myrcene. <i>Catalysis By Metal Complexes</i> , 2017 , 177-189		
4	Hydroformylation of Renewables. <i>Catalysis By Metal Complexes</i> , 2017 , 41-64		
3	Continuously Operated Cooligomerisation of Fatty Compounds with Ethylene. <i>Catalysis By Metal Complexes</i> , 2017 , 163-176		
2	Continuously Operated Hydroformylation. <i>Catalysis By Metal Complexes</i> , 2017 , 191-203		
1	Amination of Renewables. <i>Catalysis By Metal Complexes</i> , 2017 , 65-79		