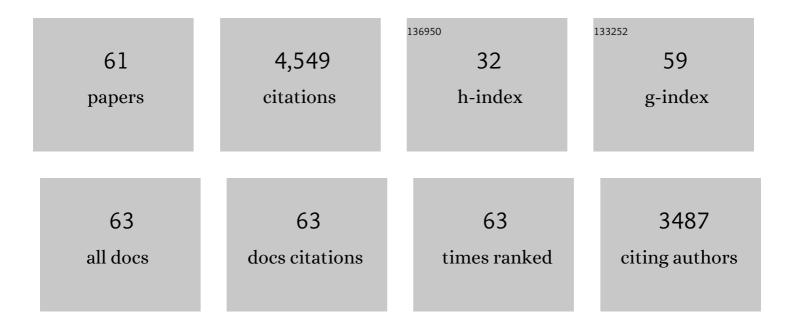
Andreas Bösmann

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Effect of the degree of hydrogenation on the viscosity, surface tension, and density of the liquid organic hydrogen carrier system based on diphenylmethane. International Journal of Hydrogen Energy, 2022, 47, 6111-6130.	7.1	19
2	Thermochemical properties of 6,7-benzindole and its perhydrogenated derivative: A model component for liquid organic hydrogen carriers. Fuel, 2022, 324, 124410.	6.4	6
3	Enhancing the feasibility of Pd/C-catalyzed formic acid decomposition for hydrogen generation – catalyst pretreatment, deactivation, and regeneration. Catalysis Science and Technology, 2021, 11, 4259-4271.	4.1	12
4	Hydrogenation of aromatic and heteroaromatic compounds – a key process for future logistics of green hydrogen using liquid organic hydrogen carrier systems. Sustainable Energy and Fuels, 2021, 5, 1311-1346.	4.9	53
5	Pressurized hydrogen from charged liquid organic hydrogen carrier systems by electrochemical hydrogen compression. International Journal of Hydrogen Energy, 2021, 46, 15624-15634.	7.1	19
6	Dehydrogenation of perhydro-N-ethylcarbazole under reduced total pressure. International Journal of Hydrogen Energy, 2021, 46, 15660-15670.	7.1	21
7	Experimental determination of the hydrogenation/dehydrogenation - Equilibrium of the LOHC system H0/H18-dibenzyltoluene. International Journal of Hydrogen Energy, 2021, 46, 32583-32594.	7.1	29
8	Purity of hydrogen released from the Liquid Organic Hydrogen Carrier compound perhydro dibenzyltoluene by catalytic dehydrogenation. International Journal of Hydrogen Energy, 2020, 45, 712-720.	7.1	65
9	Thermochemical Properties and Dehydrogenation Thermodynamics of Indole Derivates. Industrial & Engineering Chemistry Research, 2020, 59, 20539-20550.	3.7	17
10	Influence of the nanoparticle size on hydrogen release and side product formation in liquid organic hydrogen carrier systems with supported platinum catalysts. Catalysis Science and Technology, 2020, 10, 6669-6678.	4.1	34
11	Highly efficient, low-temperature hydrogen release from perhydro-benzyltoluene using reactive distillation. Energy and Environmental Science, 2020, 13, 3119-3128.	30.8	50
12	Benzyltoluene/dibenzyltoluene-based mixtures as suitable liquid organic hydrogen carrier systems for low temperature applications. International Journal of Hydrogen Energy, 2020, 45, 14897-14906.	7.1	89
13	Operational Stability of a LOHCâ€Based Hot Pressure Swing Reactor for Hydrogen Storage. Energy Technology, 2019, 7, 146-152.	3.8	41
14	Dehydrogenation of the liquid organic hydrogen carrier system 2-methylindole/2-methylindoline/2-methyloctahydroindole on Pt(111). Journal of Chemical Physics, 2019, 151, 144711.	3.0	19
15	Hydrogenation of liquid organic hydrogen carrier systems using multicomponent gas mixtures. International Journal of Hydrogen Energy, 2019, 44, 31172-31182.	7.1	39
16	Homogeneously-catalysed hydrogen release/storage using the 2-methylindole/2-methylindoline LOHC system in molten salt-organic biphasic reaction systems. Chemical Communications, 2019, 55, 2046-2049.	4.1	16
17	Towards an efficient liquid organic hydrogen carrier fuel cell concept. Energy and Environmental Science, 2019, 12, 2305-2314.	30.8	73
18	Boosting the activity of hydrogen release from liquid organic hydrogen carrier systems by sulfur-additives to Pt on alumina catalysts. Catalysis Science and Technology, 2019, 9, 3537-3547.	4.1	84

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19	Charging a Liquid Organic Hydrogen Carrier with Wet Hydrogen from Electrolysis. ACS Sustainable Chemistry and Engineering, 2019, 7, 4186-4194.	6.7	34
20	Analysis of reaction mixtures of perhydro-dibenzyltoluene using two-dimensional gas chromatography and single quadrupole gas chromatography. International Journal of Hydrogen Energy, 2018, 43, 5620-5636.	7.1	67
21	Resilience of Liquid Organic Hydrogen Carrier Based Energyâ€&torage Systems. Energy Technology, 2018, 6, 529-539.	3.8	22
22	Charging a Liquid Organic Hydrogen Carrier System with H ₂ /CO ₂ Gas Mixtures. ChemCatChem, 2018, 10, 4329-4337.	3.7	24
23	Carbon Dioxideâ€Free Hydrogen Production with Integrated Hydrogen Separation and Storage. ChemSusChem, 2017, 10, 42-47.	6.8	35
24	Quantitative measurement of complex substances dissolved in an ionic liquid using IR spectroscopy and chemometrics. TM Technisches Messen, 2017, 84, 32-37.	0.7	2
25	Dynamic power supply by hydrogen bound to a liquid organic hydrogen carrier. Applied Energy, 2017, 194, 1-8.	10.1	92
26	Hydrogen storage using a hot pressure swing reactor. Energy and Environmental Science, 2017, 10, 1652-1659.	30.8	131
27	Electrophoretic Deposition of Boehmite on Additively Manufactured, Interpenetrating Periodic Open Cellular Structures for Catalytic Applications. Industrial & Engineering Chemistry Research, 2017, 56, 13402-13410.	3.7	15
28	Dynamische Energiefreisetzung aus WasserstofftrÃ g ermaterialien. Chemie-Ingenieur-Technik, 2016, 88, 1270-1271.	0.8	0
29	Hydrogenation of the liquid organic hydrogen carrier compound dibenzyltoluene – reaction pathway determination by ¹ H NMR spectroscopy. Reaction Chemistry and Engineering, 2016, 1, 313-320.	3.7	87
30	Chemical utilization of hydrogen from fluctuating energy sources – Catalytic transfer hydrogenation from charged Liquid Organic Hydrogen Carrier systems. International Journal of Hydrogen Energy, 2016, 41, 1010-1017.	7.1	101
31	Hydrogen Storage: Thermochemical Studies of <i>N</i> -Alkylcarbazoles and Their Derivatives as a Potential Liquid Organic Hydrogen Carriers. Journal of Physical Chemistry C, 2015, 119, 26381-26389.	3.1	62
32	Environmental and health impact assessment of Liquid Organic Hydrogen Carrier (LOHC) systems – challenges and preliminary results. Energy and Environmental Science, 2015, 8, 1035-1045.	30.8	188
33	Screening of Ionic Liquid/H ₂ O Working Pairs for Application in Low Temperature Driven Sorption Heat Pump Systems. ACS Sustainable Chemistry and Engineering, 2015, 3, 750-757.	6.7	27
34	CO ₂ as a Viscosity Index Improver for Wind Turbine Oils. Industrial & Engineering Chemistry Research, 2015, 54, 5810-5819.	3.7	5
35	Halide-Free Synthesis and Tribological Performance of Oil-Miscible Ammonium and Phosphonium-Based Ionic Liquids. ACS Sustainable Chemistry and Engineering, 2015, 3, 797-808.	6.7	73
36	Macrokinetic effects in perhydro-N-ethylcarbazole dehydrogenation and H ₂ productivity optimization by using egg-shell catalysts. Energy and Environmental Science, 2015, 8, 3013-3021.	30.8	33

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37	Efficient hydrogen release from perhydro-N-ethylcarbazole using catalyst-coated metallic structures produced by selective electron beam melting. Energy and Environmental Science, 2015, 8, 641-649.	30.8	71
38	Evaluation of Industrially Applied Heatâ€Transfer Fluids as Liquid Organic Hydrogen Carrier Systems. ChemSusChem, 2014, 7, 229-235.	6.8	299
39	Spectroscopic and electrochemical characterization of heteropoly acids for their optimized application in selective biomass oxidation to formic acid. Green Chemistry, 2014, 16, 226-237.	9.0	120
40	Enhanced Activity and Selectivity in Catalytic Methanol Steam Reforming by Basic Alkali Metal Salt Coatings. Angewandte Chemie - International Edition, 2013, 52, 5028-5032.	13.8	43
41	Interface Properties and Physicochemical Characterization of the Low-Temperature Molten Salt Li/K/Cs Acetate. Journal of Physical Chemistry C, 2013, 117, 22939-22946.	3.1	7
42	Low melting Li/K/Cs acetate salt mixtures as new ionic media for catalytic applications – first physico-chemical characterization. Dalton Transactions, 2012, 41, 14433.	3.3	10
43	Selective oxidation of complex, water-insoluble biomass to formic acid using additives as reaction accelerators. Energy and Environmental Science, 2012, 5, 7956.	30.8	163
44	Selective catalytic conversion of biobased carbohydrates to formic acid using molecular oxygen. Green Chemistry, 2011, 13, 2759.	9.0	176
45	Oxidative Depolymerization of Lignin in Ionic Liquids. ChemSusChem, 2010, 3, 719-723.	6.8	213
46	Catalytic production of hydrogen from glucose and other carbohydrates under exceptionally mild reaction conditions. Green Chemistry, 2010, 12, 1150.	9.0	58
47	Chirality Transfer in Imidazolium Camphorsulfonate Ionic Liquids through Ion Pairing Effects. Advanced Synthesis and Catalysis, 2009, 351, 432-440.	4.3	17
48	Reaktivextraktion von MilchsĤre aus Fermenterbrļhe. Chemie-Ingenieur-Technik, 2009, 81, 1226-1227.	0.8	0
49	Depolymerisation von Lignin in ionischen Flüssigkeiten. Chemie-Ingenieur-Technik, 2009, 81, 1052-1052.	0.8	0
50	Determination of Glucose and Cellobiose Dissolved in the Ionic Liquid 1-Ethyl-3-Methylimidazolium Acetate Using Fourier Transform Infrared Spectroscopy. Applied Spectroscopy, 2009, 63, 1041-1049.	2.2	26
51	MFI-type (ZSM-5) zeolite-filled TiO2nanotubes for enhanced photocatalytic activity. Nanotechnology, 2009, 20, 225607.	2.6	25
52	Quantitative IR-spektroskopische Detektion von Zucker in ionischen Flüssigkeiten. Chemie-Ingenieur-Technik, 2008, 80, 1387-1388.	0.8	0
53	Quantitative Analysis of Alphaâ€≺scp>Dâ€glucose in an Ionic Liquid by Using Infrared Spectroscopy. ChemPhysChem, 2008, 9, 1317-1322.	2.1	51
54	Chloroalkylsulfonate ionic liquids by ring opening of sultones with organic chloride salts. Chemical Communications, 2008, , 3867.	4.1	39

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#	Article	IF	CITATIONS
55	Effective Chirality Transfer in Ionic Liquids through Ion-Pairing Effects. Angewandte Chemie - International Edition, 2007, 46, 1293-1295.	13.8	106
56	Enhancing Task Specific Ionic Liquids' Thermal Stability by Structural Modification. Monatshefte Für Chemie, 2007, 138, 1159-1161.	1.8	16
57	New Ionic Liquids Based on Alkylsulfate and Alkyl Oligoether Sulfate Anions: Synthesis and Applications. ACS Symposium Series, 2003, , 57-69.	0.5	13
58	1-n-Butyl-3-methylimidazolium ([bmim]) octylsulfate—an even â€~greener' ionic liquid. Green Chemistry, 2002, 4, 400-404.	9.0	399
59	Synthesis and properties of ionic liquids derived from the 'chiral pool'Electronic supplementary information (ESI) available: characterisation of compounds 1a, 2 and 3. See http://www.rsc.org/suppdata/cc/b1/b109493a/. Chemical Communications, 2002, , 200-201.	4.1	231
60	Deep desulfurization of diesel fuel by extraction with ionic liquids. Chemical Communications, 2001, , 2494-2495.	4.1	543
61	Activation, Tuning, and Immobilization of Homogeneous Catalysts in an Ionic Liquid/Compressed CO2 Continuous-Flow System, Angewandte Chemie - International Edition, 2001, 40, 2697-2699	13.8	203