

# Johannes Hendrik Bitter

## List of Publications by Year in descending order

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117  
papers

11,133  
citations

44069

48  
h-index

29157

104  
g-index

122  
all docs

122  
docs citations

122  
times ranked

10878  
citing authors

#	ARTICLE	IF	CITATIONS
1	Napins and cruciferins in rapeseed protein extracts have complementary roles in structuring emulsion-filled gels. <i>Food Hydrocolloids</i> , 2022, 125, 107400.	10.7	11
2	Concentration-dependent effects of nickel doping on activated carbon biocathodes. <i>Catalysis Science and Technology</i> , 2022, 12, 2500-2518.	4.1	5
3	Carbohydrate structure-activity relations of Au-catalysed base-free oxidations: gold displaying a platinum lustre. <i>RSC Advances</i> , 2022, 12, 8918-8923.	3.6	1
4	The Use of Virtual Reality in A Chemistry Lab and Its Impact on Students' Self-Efficacy, Interest, Self-Concept and Laboratory Anxiety. <i>Eurasia Journal of Mathematics, Science and Technology Education</i> , 2022, 18, em2090.	1.3	3
5	Environmental Impact Evaluation for Heterogeneously Catalysed Starch Oxidation. <i>ChemistryOpen</i> , 2022, 11, e202200029.	1.9	5
6	Starch controls brittleness in emulsion-gels stabilized by pea flour. <i>Food Hydrocolloids</i> , 2022, 131, 107708.	10.7	9
7	Recent Advances in Polybenzimidazole Membranes for Hydrogen Purification. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 6125-6134.	3.7	20
8	A sustainable and efficient recycling strategy of feather waste into keratin peptides with antimicrobial activity. <i>Waste Management</i> , 2022, 144, 421-430.	7.4	13
9	Hollow protein microparticles formed through cross-linking by an Au <sup>3+</sup> initiated redox reaction. <i>Journal of Materials Chemistry B</i> , 2022, 10, 6287-6295.	5.8	3
10	Adsorption of rapeseed proteins at oil/water interfaces. Janus-like napins dominate the interface. <i>Journal of Colloid and Interface Science</i> , 2021, 583, 459-469.	9.4	31
11	Catalytic Cooperation between a Copper Oxide Electrocatalyst and a Microbial Community for Microbial Electrosynthesis. <i>ChemPlusChem</i> , 2021, 86, 763-777.	2.8	5
12	The influence of $\alpha$ -1,4-glucan substrates on 4,6- $\alpha$ -d-glucanotransferase reaction dynamics during isomalto/malto-polysaccharide synthesis. <i>International Journal of Biological Macromolecules</i> , 2021, 181, 762-768.	7.5	8
13	Jammed Emulsions with Adhesive Pea Protein Particles for Elastoplastic Edible 3D Printed Materials. <i>Advanced Functional Materials</i> , 2021, 31, 2101749.	14.9	23
14	Digestibility of resistant starch type 3 is affected by crystal type, molecular weight and molecular weight distribution. <i>Carbohydrate Polymers</i> , 2021, 265, 118069.	10.2	21
15	Effect of Support Surface Properties on CO <sub>2</sub> Capture from Air by Carbon-Supported Potassium Carbonate. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 13749-13755.	3.7	10
16	Cyclic Voltammetry is Invasive on Microbial Electrosynthesis. <i>ChemElectroChem</i> , 2021, 8, 3384-3396.	3.4	9
17	Phosphorus Induced Electron Localization of Single Iron Sites for Boosted CO <sub>2</sub> Electroreduction Reaction. <i>Angewandte Chemie</i> , 2021, 133, 23806-23810.	2.0	22
18	Phosphorus Induced Electron Localization of Single Iron Sites for Boosted CO <sub>2</sub> Electroreduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23614-23618.	13.8	197

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19	Au <sup>3+</sup> -Induced gel network formation of proteins. <i>Soft Matter</i> , 2021, 17, 9682-9688.	2.7	3
20	Jammed Emulsions with Adhesive Pea Protein Particles for Elastoplastic Edible 3D Printed Materials ( <i>Adv. Funct. Mater.</i> 45/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170336.	14.9	0
21	Not sequentially but simultaneously: Facile extraction of proteins and oleosomes from oilseeds. <i>Food Hydrocolloids</i> , 2020, 102, 105598.	10.7	54
22	Pea flour as stabilizer of oil-in-water emulsions: Protein purification unnecessary. <i>Food Hydrocolloids</i> , 2020, 101, 105533.	10.7	51
23	On the Emulsifying Properties of Self-Assembled Pea Protein Particles. <i>Langmuir</i> , 2020, 36, 12221-12229.	3.5	45
24	Molybdenum and tungsten carbides can shine too. <i>Catalysis Science and Technology</i> , 2020, 10, 6089-6097.	4.1	20
25	Reaction Stages of Feather Hydrolysis: Factors That Influence Availability for Enzymatic Hydrolysis and Cystine Conservation during Thermal Pressure Hydrolysis. <i>Biotechnology and Bioprocess Engineering</i> , 2020, 25, 749-757.	2.6	4
26	CO <sub>2</sub> Conversion by Combining a Copper Electrocatalyst and Wild-type Microorganisms. <i>ChemCatChem</i> , 2020, 12, 3900-3912.	3.7	8
27	Synthesis and characterization of a supported Pd complex on carbon nanofibers for the selective decarbonylation of stearic acid to 1-heptadecene: the importance of subnanometric Pd dispersion. <i>Catalysis Science and Technology</i> , 2020, 10, 2970-2985.	4.1	6
28	Exploring the Treasure of Plant Molecules With Integrated Biorefineries. <i>Frontiers in Plant Science</i> , 2019, 10, 478.	3.6	7
29	Activated Carbon, Carbon Nanofibers and Carbon-Covered Alumina as Support for W2C in Stearic Acid Hydrodeoxygenation. <i>ChemEngineering</i> , 2019, 3, 24.	2.4	6
30	Influence of synthesis method on molybdenum carbide crystal structure and catalytic performance in stearic acid hydrodeoxygenation. <i>Applied Catalysis B: Environmental</i> , 2019, 241, 81-88.	20.2	57
31	Enzymatic fingerprinting of isomalto/malto-polysaccharides. <i>Carbohydrate Polymers</i> , 2019, 205, 279-286.	10.2	19
32	Isomalto/malto-polysaccharide structure in relation to the structural properties of starch substrates. <i>Carbohydrate Polymers</i> , 2018, 185, 179-186.	10.2	21
33	High Rate Biomethanation of Carbon Monoxide-Rich Gases via a Thermophilic Synthetic Coculture. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2169-2176.	6.7	31
34	The effect of substituents of 1,4-butanediol analogues on the thermal properties of biobased polyesters. <i>Journal of Polymer Science Part A</i> , 2018, 56, 1903-1906.	2.3	9
35	From batch to continuous: Au-catalysed oxidation of D-galacturonic acid in a packed bed plug flow reactor under alkaline conditions. <i>Reaction Chemistry and Engineering</i> , 2018, 3, 540-549.	3.7	4
36	Synthesis of Furandicarboxylic Acid Esters From Nonfood Feedstocks Without Concomitant Levulinic Acid Formation. <i>ChemSusChem</i> , 2017, 10, 1460-1468.	6.8	28

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37	Unusual differences in the reactivity of glutamic and aspartic acid in oxidative decarboxylation reactions. <i>Green Chemistry</i> , 2017, 19, 5178-5186.	9.0	5
38	The Future of Ethenolysis in Biobased Chemistry. <i>ChemSusChem</i> , 2017, 10, 470-482.	6.8	54
39	Conversion of polyhydroxyalkanoates to methyl crotonate using whole cells. <i>Bioresource Technology</i> , 2016, 211, 267-272.	9.6	13
40	Mechanochemical Immobilisation of Metathesis Catalysts in a Metal-Organic Framework. <i>Chemistry - A European Journal</i> , 2016, 22, 15437-15443.	3.3	21
41	Effect of initial nickel particle size on stability of nickel catalysts for aqueous phase reforming. <i>Journal of Energy Chemistry</i> , 2016, 25, 289-296.	12.9	27
42	Stability of Transition-metal Carbides in Liquid Phase Reactions Relevant for Biomass-Based Conversion. <i>ChemCatChem</i> , 2015, 7, 2816-2823.	3.7	23
43	Selective terminal C-C scission of C5-carbohydrates. <i>Green Chemistry</i> , 2015, 17, 3900-3909.	9.0	13
44	Deoxygenation of biobased molecules by decarboxylation and decarbonylation – a review on the role of heterogeneous, homogeneous and bio-catalysis. <i>Green Chemistry</i> , 2015, 17, 3231-3250.	9.0	167
45	Analysis of sustainability metrics and application to the catalytic production of higher alcohols from ethanol. <i>Catalysis Today</i> , 2015, 239, 56-79.	4.4	45
46	Structure-performance relations of molybdenum- and tungsten carbide catalysts for deoxygenation. <i>Green Chemistry</i> , 2015, 17, 582-593.	9.0	121
47	Kinetics and mechanism of 5-hydroxymethylfurfural oxidation and their implications for catalyst development. <i>Journal of Molecular Catalysis A</i> , 2014, 388-389, 123-132.	4.8	89
48	Transformations of polyols to organic acids and hydrogen in aqueous alkaline media. <i>Catalysis Science and Technology</i> , 2014, 4, 2353-2366.	4.1	41
49	Cobalt particle size effects on catalytic performance for ethanol steam reforming – Smaller is better. <i>Journal of Catalysis</i> , 2014, 318, 67-74.	6.2	134
50	Toward stable nickel catalysts for aqueous phase reforming of biomass-derived feedstock under reducing and alkaline conditions. <i>Journal of Catalysis</i> , 2014, 319, 27-35.	6.2	53
51	Effects of loading and synthesis method of titania-supported cobalt catalysts for Fischer-Tropsch synthesis. <i>Catalysis Today</i> , 2014, 228, 89-95.	4.4	61
52	Reaction Pathways for the Deoxygenation of Vegetable Oils and Related Model Compounds. <i>ChemSusChem</i> , 2013, 6, 1576-1594.	6.8	267
53	Calcium Oxide Supported on Monoclinic Zirconia as a Highly Active Solid Base Catalyst. <i>ChemCatChem</i> , 2013, 5, 3621-3628.	3.7	12
54	Comparison of Tungsten and Molybdenum Carbide Catalysts for the Hydrodeoxygenation of Oleic Acid. <i>ACS Catalysis</i> , 2013, 3, 2837-2844.	11.2	163

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55	Functionalized Carbon Nanofibers as Solid Acid Catalysts for Transesterification. <i>ChemSusChem</i> , 2013, 6, 1668-1672.	6.8	49
56	Enhancing the Activity of Pd on Carbon Nanofibers for Deoxygenation of Amphiphilic Fatty Acid Molecules through Support Polarity. <i>ACS Catalysis</i> , 2013, 3, 2397-2402.	11.2	34
57	Carbon Nanofiber Supported Transition Metal Carbide Catalysts for the Hydrodeoxygenation of Guaiacol. <i>ChemCatChem</i> , 2013, 5, 2964-2972.	3.7	180
58	Effects of sodium and sulfur on catalytic performance of supported iron catalysts for the Fischer-Tropsch synthesis of lower olefins. <i>Journal of Catalysis</i> , 2013, 303, 22-30.	6.2	217
59	Effect of precursor on the catalytic performance of supported iron catalysts for the Fischer-Tropsch synthesis of lower olefins. <i>Catalysis Today</i> , 2013, 215, 95-102.	4.4	76
60	Tungsten-Based Catalysts for Selective Deoxygenation. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5089-5092.	13.8	115
61	Carbon Nanofiber-Supported $K_2CO_3$ as an Efficient Low-Temperature Regenerable $CO_2$ Sorbent for Post-Combustion Capture. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 12812-12818.	3.7	18
62	Supported $La_2O_3$ and MgO Nanoparticles as Solid Base Catalysts for Aldol Reactions While Suppressing Dehydration at Room Temperature. <i>ChemCatChem</i> , 2013, 5, 594-600.	3.7	20
63	The World of Catalysis – A Perspective from The Netherlands. <i>ChemCatChem</i> , 2013, 5, 359-360.	3.7	0
64	Ligand control in thiol stabilized Au <sub>38</sub> clusters. <i>RSC Advances</i> , 2012, 2, 2276.	3.6	50
65	Selective deoxygenation of stearic acid via an anhydride pathway. <i>RSC Advances</i> , 2012, 2, 9387.	3.6	35
66	Iron Particle Size Effects for Direct Production of Lower Olefins from Synthesis Gas. <i>Journal of the American Chemical Society</i> , 2012, 134, 16207-16215.	13.7	390
67	Supported Iron Nanoparticles as Catalysts for Sustainable Production of Lower Olefins. <i>Science</i> , 2012, 335, 835-838.	12.6	1,001
68	The role of Ni in increasing the reversibility of the hydrogen release from nanoconfined LiBH <sub>4</sub> . <i>Faraday Discussions</i> , 2011, 151, 47.	3.2	61
69	How NO Affects Nickel and Cobalt Nitrates at Low Temperatures To Arrive at Highly Dispersed Silica-Supported Nickel and Cobalt Catalysts. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3332-3339.	3.1	48
70	Copper Nitrate Redispersion To Arrive at Highly Active Silica-Supported Copper Catalysts. <i>Journal of Physical Chemistry C</i> , 2011, 115, 14698-14706.	3.1	112
71	Lanthanum Oxide Supported on Carbon Nanofibers as Solid Base Catalysts. <i>ChemCatChem</i> , 2011, 3, 1193-1199.	3.7	16
72	A Highly Active and Selective Manganese Oxide Promoted Cobalt-on-Silica Fischer-Tropsch Catalyst. <i>Topics in Catalysis</i> , 2011, 54, 768-777.	2.8	57

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73	Oxidation of methane to methanol and formaldehyde over Co <sup>2+</sup> /ZSM-5 molecular sieves: Tuning the reactivity and selectivity by alkaline and acid treatments of the zeolite ZSM-5 agglomerates. <i>Microporous and Mesoporous Materials</i> , 2011, 138, 176-183.	4.4	96
74	Oxidative steam reforming of ethanol over carbon nanofiber supported Co catalysts. <i>Catalysis Today</i> , 2011, 164, 262-267.	4.4	37
75	Partial Oxidation of Methane Over Co-ZSM-5: Tuning the Oxygenate Selectivity by Altering the Preparation Route. <i>Catalysis Letters</i> , 2010, 136, 52-56.	2.6	88
76	Cu-ZSM-5 Zeolites for the Formation of Methanol from Methane and Oxygen: Probing the Active Sites and Spectator Species. <i>Catalysis Letters</i> , 2010, 138, 14-22.	2.6	152
77	Design of supported cobalt catalysts with maximum activity for the Fischer-Tropsch synthesis. <i>Journal of Catalysis</i> , 2010, 270, 146-152.	6.2	170
78	Thin layer of carbon-nano-fibers (CNFs) as catalyst support for fast mass transfer in hydrogenation of nitrite. <i>Applied Catalysis A: General</i> , 2010, 383, 24-32.	4.3	53
79	On the Influence and Role of Alkali Metals on Supported and Unsupported Activated Hydrotalcites for CO <sub>2</sub> Sorption. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 8086-8093.	3.7	54
80	Support and Size Effects of Activated Hydrotalcites for Precombustion CO <sub>2</sub> Capture. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 1229-1235.	3.7	98
81	DRIFTS/MS/Isotopic Labeling Study on the NO-Moderated Decomposition of a Silica-Supported Nickel Nitrate Catalyst Precursor. <i>Journal of Physical Chemistry C</i> , 2010, 114, 7839-7845.	3.1	17
82	Nanostructured carbons in catalysis a Janus material—industrial applicability and fundamental insights. <i>Journal of Materials Chemistry</i> , 2010, 20, 7312.	6.7	102
83	Lactose oxidation over palladium catalysts supported on active carbons and on carbon nanofibres. <i>Research on Chemical Intermediates</i> , 2009, 35, 155-174.	2.7	14
84	Reducibility of Platinum Supported on Nanostructured Carbons. <i>Topics in Catalysis</i> , 2009, 52, 424-430.	2.8	14
85	Activity of Nitrogen Containing Carbon Nanotubes in Base Catalyzed Knoevenagel Condensation. <i>Topics in Catalysis</i> , 2009, 52, 1575-1583.	2.8	42
86	On the Origin of the Cobalt Particle Size Effects in Fischer-Tropsch Catalysis. <i>Journal of the American Chemical Society</i> , 2009, 131, 7197-7203.	13.7	699
87	Electrocatalytic Activity and Stability of Nitrogen-Containing Carbon Nanotubes in the Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2009, 113, 14302-14310.	3.1	530
88	On the Nature of Oxygen-Containing Surface Groups on Carbon Nanofibers and Their Role for Platinum Deposition—An XPS and Titration Study. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9865-9869.	3.1	104
89	Iron impregnation on the amorphous shell of vapor grown carbon fibers and the catalytic growth of secondary nanofibers. <i>Diamond and Related Materials</i> , 2009, 18, 13-19.	3.9	6
90	Influence of Reaction Parameters on the Hydrogenolysis of Hydroxymatairesinol Over Carbon Nanofibre Supported Palladium Catalysts. <i>Catalysis Letters</i> , 2008, 125, 8-13.	2.6	13

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91	Catalytic Hydrogen-Clorine Exchange between Chlorinated Hydrocarbons under Oxygen-Free Conditions. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5002-5004.	13.8	21
92	Particle size effects for carbon nanofiber supported platinum and ruthenium catalysts for the selective hydrogenation of cinnamaldehyde. <i>Applied Catalysis A: General</i> , 2008, 351, 9-15.	4.3	159
93	Sodium Alanate Nanoparticles - Linking Size to Hydrogen Storage Properties. <i>Journal of the American Chemical Society</i> , 2008, 130, 6761-6765.	13.7	220
94	XAFS Study of the Al K-Edge in NaAlH <sub>4</sub> . <i>Journal of Physical Chemistry C</i> , 2007, 111, 11721-11725.	3.1	10
95	Active Ti Species in TiCl <sub>3</sub> -Doped NaAlH <sub>4</sub> . Mechanism for Catalyst Deactivation. <i>Journal of Physical Chemistry C</i> , 2007, 111, 2797-2802.	3.1	86
96	Dehydrogenation of hydroxymatairesinol to oxomatairesinol over carbon nanofibre-supported palladium catalysts. <i>Journal of Molecular Catalysis A</i> , 2007, 274, 42-49.	4.8	31
97	The influence of acidity of carbon nanofibre-supported palladium catalysts in the hydrogenolysis of hydroxymatairesinol. <i>Catalysis Letters</i> , 2007, 113, 141-146.	2.6	22
98	On the Nature and Accessibility of the Brønsted-Base Sites in Activated Hydrotalcite Catalysts. <i>Journal of Physical Chemistry B</i> , 2006, 110, 9211-9218.	2.6	88
99	Cobalt Particle Size Effects in the Fischer-Tropsch Reaction Studied with Carbon Nanofiber Supported Catalysts. <i>Journal of the American Chemical Society</i> , 2006, 128, 3956-3964.	13.7	1,318
100	Support effects in hydrogenation of cinnamaldehyde over carbon nanofiber-supported platinum catalysts: Kinetic modeling. <i>Chemical Engineering Science</i> , 2005, 60, 5682-5695.	3.8	105
101	Deposition Precipitation for the Preparation of Carbon Nanofiber Supported Nickel Catalysts. <i>Journal of the American Chemical Society</i> , 2005, 127, 13573-13582.	13.7	196
102	The influence of oxidation on the texture and the number of oxygen-containing surface groups of carbon nanofibers. <i>Carbon</i> , 2004, 42, 307-315.	10.3	288
103	Preparation of Carbon Nanofiber Supported Platinum and Ruthenium Catalysts: Comparison of Ion Adsorption and Homogeneous Deposition Precipitation. <i>Journal of Physical Chemistry B</i> , 2004, 108, 11611-11619.	2.6	109
104	Pd L <sub>3</sub> edge XANES investigation of the electronic and geometric structure of Pd/Ag-H membranes. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 3903-3906.	2.8	20
105	Monitoring the Location, Amount, and Nature of Carbonaceous Deposits on Aged Zeolite Ferrierite Crystals by Using STEM-EELS. <i>Chemistry - A European Journal</i> , 2003, 9, 3106-3111.	3.3	12
106	Generation, Characterization, and Impact of Mesopores in Zeolite Catalysts. <i>Catalysis Reviews - Science and Engineering</i> , 2003, 45, 297-319.	12.9	743
107	Cu K-Edge EXAFS Characterisation of Copper(I) Arenethiolate Complexes in both the Solid and Liquid State: Detection of Cu <sub>2</sub> S <sub>2</sub> Cu Coordination. <i>Chemistry - A European Journal</i> , 2002, 8, 5667-5678.	3.3	31
108	Impact of the structure and reactivity of nickel particles on the catalytic growth of carbon nanofibers. <i>Catalysis Today</i> , 2002, 76, 33-42.	4.4	337

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109	Butene skeletal isomerization over H-ferrierite: a TEOM and in situ IR study on the role of carbonaceous deposits and the location of Brønsted acid sites. <i>Applied Catalysis A: General</i> , 2002, 237, 149-159.	4.3	37
110	Investigation of vapor-phase silica deposition on MCM-41, using tetraalkoxysilanes. <i>Microporous and Mesoporous Materials</i> , 2002, 56, 101-109.	4.4	12
111	Probing the Accessible Sites for n-Butene Skeletal Isomerization over Aged and Selective H-Ferrierite with d3-Acetonitrile. <i>Journal of Catalysis</i> , 2002, 212, 86-93.	6.2	25
112	Understanding of Enhanced Oxygen Storage Capacity in Ce <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> : The Presence of an Anharmonic Pair Distribution Function in the Zr 4d Subshell as Analyzed by XAFS Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2001, 105, 4810-4815.	2.6	82
113	The Nature of the Pt-H Bonding for Strongly and Weakly Bonded Hydrogen on Platinum. A XAFS Spectroscopy Study of the Pt-H Antibonding Shape Resonance and Pt-H EXAFS. <i>Journal of Physical Chemistry B</i> , 2001, 105, 4616-4622.	2.6	77
114	Deactivation of solid acid catalysts for butene skeletal isomerisation: on the beneficial and harmful effects of carbonaceous deposits. <i>Applied Catalysis A: General</i> , 2001, 212, 97-116.	4.3	116
115	Title is missing!. <i>Topics in Catalysis</i> , 2001, 16/17, 363-368.	2.8	30
116	The structural role of the copper-coordinating and surface-exposed histidine residue in the blue copper protein azurin 1. Edited by R. Huber. <i>Journal of Molecular Biology</i> , 2000, 299, 737-755.	4.2	37
117	The assembling of a catalytic active copper site, in solution, followed by EXAFS. <i>Journal of Synchrotron Radiation</i> , 1999, 6, 423-424.	2.4	1