

Stephan Bartling

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Effects of N ₂ O and Water on Activity and Selectivity in the Oxidative Coupling of Methane over Mn ₂ WO ₄ /SiO ₂ : Role of Oxygen Species. ACS Catalysis, 2022, 12, 1298-1309.	5.5	20
2	Effects of modifier (Gd, Sc, La) addition on the stability of low Ni content catalyst for dry reforming of model biogas. Fuel, 2022, 312, 122823.	3.4	8
3	Scalable and selective deuteration of (hetero)arenes. Nature Chemistry, 2022, 14, 334-341.	6.6	56
4	Oxygen vacancies in Ru/TiO ₂ - drivers of low-temperature CO ₂ methanation assessed by multimodal operando spectroscopy. IScience, 2022, 25, 103886.	1.9	10
5	Structural Reconstruction in Lead-Free Two-Dimensional Tin Iodide Perovskites Leading to High Quantum Yield Emission. ACS Energy Letters, 2022, 7, 975-983.	8.8	19
6	Efficient Base Nickel-Catalyzed Hydrogenolysis of Furfural-Derived Tetrahydrofurfuryl Alcohol to 1,5-Pentanediol. ACS Sustainable Chemistry and Engineering, 2022, 10, 4954-4968.	3.2	14
7	Effect of Cerium Promoters on an MCM-41-Supported Nickel Catalyst in Dry Reforming of Methane. Industrial & Engineering Chemistry Research, 2022, 61, 164-174.	1.8	33
8	Generation of Cobalt-Containing Nanoparticles on Carbon via Pyrolysis of a Cobalt Corrole and Its Application in the Hydrogenation of Nitroarenes. Catalysts, 2022, 12, 11.	1.6	3
9	Cobalt-catalysed CH-alkylation of indoles with alcohols by borrowing hydrogen methodology. Green Chemistry, 2022, 24, 4566-4572.	4.6	19
10	Manganese-Catalysed Deuterium Labelling of Anilines and Electron-Rich (Hetero)Arenes. Angewandte Chemie - International Edition, 2022, 61, .	7.2	9
11	Diastereoselective hydrogenation of arenes and pyridines using supported ruthenium nanoparticles under mild conditions. Chemical Communications, 2022, 58, 8842-8845.	2.2	6
12	Esterification of sugarcane bagasse by citric acid for Pb ²⁺ adsorption: effect of different chemical pretreatment methods. Environmental Science and Pollution Research, 2021, 28, 11869-11881.	2.7	17
13	Elucidating the effects of individual components in K _x MnO _y /SiO ₂ and water on selectivity enhancement in the oxidative coupling of methane. Catalysis Science and Technology, 2021, 11, 5827-5838.	2.1	6
14	Copper-catalysed low-temperature water-gas shift reaction for selective deuteration of aryl halides. Chemical Science, 2021, 12, 14033-14038.	3.7	10
15	Shedding Light on CO Oxidation Surface Chemistry on Single Pt Catalyst Nanoparticles Inside a Nanofluidic Model Pore. ACS Catalysis, 2021, 11, 2021-2033.	5.5	3
16	Color Tuning of Electrochromic TiO ₂ Nanofibrous Layers Loaded with Metal and Metal Oxide Nanoparticles for Smart Colored Windows. ACS Applied Nano Materials, 2021, 4, 8600-8610.	2.4	17
17	Tiny Species with Big Impact: High Activity of Cu Single Atoms on CeO ₂ -TiO ₂ Deciphered by Operando Spectroscopy. ACS Catalysis, 2021, 11, 10933-10949.	5.5	39
18	Heat accumulation during femtosecond laser treatment at high repetition rate - A morphological, chemical and crystallographic characterization of self-organized structures on Ti ₆ Al ₄ V. Applied Surface Science, 2021, 570, 151115.	3.1	17

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19	The solvent determines the product in the hydrogenation of aromatic ketones using unligated RhCl_3 as catalyst precursor. <i>Catalysis Science and Technology</i> , 2021, 11, 7608-7616.	2.1	0
20	Enhanced photocatalytic performance of polymeric carbon nitride through combination of iron loading and hydrogen peroxide treatment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 589, 124383.	2.3	5
21	Elucidating the Nature of Active Sites and Fundamentals for their Creation in Zn-Containing ZrO_2 -Based Catalysts for Nonoxidative Propane Dehydrogenation. <i>ACS Catalysis</i> , 2020, 10, 8933-8949.	5.5	62
22	Effect of Chemical Solvents on the Wetting Behavior Over Time of Femtosecond Laser Structured $\text{Ti}_6\text{Al}_4\text{V}$ Surfaces. <i>Nanomaterials</i> , 2020, 10, 1241.	1.9	30
23	TiO_2 -Supported catalysts with ZnO and ZrO_2 for non-oxidative dehydrogenation of propane: mechanistic analysis and application potential. <i>Catalysis Science and Technology</i> , 2020, 10, 7046-7055.	2.1	11
24	Structure-Activity-Selectivity Relationships in Propane Dehydrogenation over Rh/ZrO_2 Catalysts. <i>ACS Catalysis</i> , 2020, 10, 6377-6388.	5.5	47
25	Iron/N-doped graphene nano-structured catalysts for general cyclopropanation of olefins. <i>Chemical Science</i> , 2020, 11, 6217-6221.	3.7	12
26	<i>Operando</i> detection of single nanoparticle activity dynamics inside a model pore catalyst material. <i>Science Advances</i> , 2020, 6, eaba7678.	4.7	14
27	Revisiting Activity- and Selectivity-Enhancing Effects of Water in the Oxidative Coupling of Methane over MnO_x - $\text{Na}_2\text{WO}_4/\text{SiO}_2$ and Proving for Other Materials. <i>ACS Catalysis</i> , 2020, 10, 8751-8764.	5.5	33
28	The effect of supported Rh, Ru, Pt or Ir nanoparticles on activity and selectivity of ZrO_2 -based catalysts in non-oxidative dehydrogenation of propane. <i>Applied Catalysis A: General</i> , 2020, 602, 117731.	2.2	27
29	Towards a practical perfluoroalkylation of (hetero)arenes with perfluoroalkyl bromides using cobalt nanocatalysts. <i>Catalysis Science and Technology</i> , 2020, 10, 1731-1738.	2.1	10
30	Heterogeneously Catalysed Oxidative Dehydrogenation of Menthol in a Fixed-Bed Reactor in the Gas Phase. <i>ChemistryOpen</i> , 2019, 8, 1066-1075.	0.9	1
31	Biomolecule-derived supported cobalt nanoparticles for hydrogenation of industrial olefins, natural oils and more in water. <i>Green Chemistry</i> , 2019, 21, 5104-5112.	4.6	11
32	Influence of MoS_2 on Activity and Stability of Carbon Nitride in Photocatalytic Hydrogen Production. <i>Catalysts</i> , 2019, 9, 695.	1.6	15
33	Additive-Free Nickel-Catalyzed Debenzylation Reactions via Hydrogenative C=O and C=N Bond Cleavage. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 17107-17113.	3.2	12
34	General and Chemoselective Copper Oxide Catalysts for Hydrogenation Reactions. <i>ACS Catalysis</i> , 2019, 9, 4302-4307.	5.5	56
35	Supported Cobalt Nanoparticles for Hydroformylation Reactions. <i>Chemistry - A European Journal</i> , 2019, 25, 5534-5538.	1.7	34
36	Bimetallic Ag-Pt Nanometer Supported Clusters as Highly Efficient and Robust Oxidation Catalysts. <i>Angewandte Chemie</i> , 2018, 130, 1223-1227.	1.6	3

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37	Synergistic effect of VO _x and MnO _x surface species for improved performance of V ₂ O ₅ /Ce _{0.5} Ti _{0.5} xMnxO ₂ catalysts in low-temperature NH ₃ -SCR of NO. <i>Catalysis Science and Technology</i> , 2018, 8, 6360-6374.	2.1	24
38	Alumina-supported sub-nanometer Pt ₁₀ clusters: amorphization and role of the support material in a highly active CO oxidation catalyst. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4923-4931.	5.2	72
39	Morphological impact on the reaction kinetics of size-selected cobalt oxide nanoparticles. <i>Journal of Chemical Physics</i> , 2015, 143, 114301.	1.2	3
40	Pronounced Size Dependence in Structure and Morphology of Gas-Phase Produced, Partially Oxidized Cobalt Nanoparticles under Catalytic Reaction Conditions. <i>ACS Nano</i> , 2015, 9, 5984-5998.	7.3	17
41	The 3D-architecture of individual free silver nanoparticles captured by X-ray scattering. <i>Nature Communications</i> , 2015, 6, 6187.	5.8	82
42	Ex situ investigations of MOCVD-grown gallium nitride nanowires using reflection high energy electron diffraction. <i>IOP Conference Series: Materials Science and Engineering</i> , 2011, 23, 012038.	0.3	0
43	Manganese-catalysed Deuterium Labelling of Anilines and Electron-rich (Hetero)Arenes. <i>Angewandte Chemie</i> , 0, , .	1.6	0