Stephan Bartling

List of Publications by Year
in descending order

43	887	516215 16	500791 28
papers	citations	h-index	g-index

43	43	43	1087
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The 3D-architecture of individual free silver nanoparticles captured by X-ray scattering. Nature Communications, 2015, 6, 6187.	5.8	82
2	Alumina-supported sub-nanometer Pt₁₀ clusters: amorphization and role of the support material in a highly active CO oxidation catalyst. Journal of Materials Chemistry A, 2017, 5, 4923-4931.	5.2	72
3	Elucidating the Nature of Active Sites and Fundamentals for their Creation in Zn-Containing ZrO₂â€“Based Catalysts for Nonoxidative Propane Dehydrogenation. ACS Catalysis, 2020, 10, 8933-8949.	5.5	62
4	General and Chemoselective Copper Oxide Catalysts for Hydrogenation Reactions. ACS Catalysis, 2019, 9, 4302-4307.	5.5	56
5	Scalable and selective deuteration of (hetero)arenes. Nature Chemistry, 2022, 14, 334-341.	6.6	56
6	Structureâ€“Activityâ€“Selectivity Relationships in Propane Dehydrogenation over Rh/ZrO₂ Catalysts. ACS Catalysis, 2020, 10, 6377-6388.	5.5	47
7	Tiny Species with Big Impact: High Activity of Cu Single Atoms on CeO₂â€“TiO₂ Deciphered by Operando Spectroscopy. ACS Catalysis, 2021, 11, 10933-10949.	5.5	39
8	Supported Cobalt Nanoparticles for Hydroformylation Reactions. Chemistry - A European Journal, 2019, 25, 5534-5538.	1.7	34
9	Revisiting Activity- and Selectivity-Enhancing Effects of Water in the Oxidative Coupling of Methane over MnO_x-Na₂WO₄/SiO₂and Proving for Other Materials. ACS Catalysis, 2020, 10, 8751-8764.	5.5	33
10	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
11	Effect of Chemical Solvents on the Wetting Behavior Over Time of Femtosecond Laser Structured Ti6Al4V Surfaces. Nanomaterials, 2020, 10, 1241.	1.9	30
12	The effect of supported Rh, Ru, Pt or Ir nanoparticles on activity and selectivity of ZrO2-based catalysts in non-oxidative dehydrogenation of propane. Applied Catalysis A: General, 2020, 602, 117731.	2.2	27
13	Synergistic effect of VOx and MnOx surface species for improved performance of V2O5/Ce0.5Ti0.5â^'xMnxO2â^'Î´ catalysts in low-temperature NH3-SCR of NO. Catalysis Science and Technology, 2018, 8, 6360-6374.	2.1	24
14	Effects of N₂O and Water on Activity and Selectivity in the Oxidative Coupling of Methane over Mnâ€“Na₂WO₄/SiO₂: Role of Oxygen Species. ACS Catalysis, 2022, 12, 1298-1309.	5.5	20
15	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
16	Cobalt-catalysed CH-alkylation of indoles with alcohols by borrowing hydrogen methodology. Green Chemistry, 2022, 24, 4566-4572.	4.6	19
17	Pronounced Size Dependence in Structure and Morphology of Gas-Phase Produced, Partially Oxidized Cobalt Nanoparticles under Catalytic Reaction Conditions. ACS Nano, 2015, 9, 5984-5998.	7.3	17
18	Esterification of sugarcane bagasse by citric acid for Pb2+ adsorption: effect of different chemical pretreatment methods. Environmental Science and Pollution Research, 2021, 28, 11869-11881.	2.7	17

#	Article	IF	Citations
19	Color Tuning of Electrochromic TiO₂ Nanofibrous Layers Loaded with Metal and Metal Oxide Nanoparticles for Smart Colored Windows. ACS Applied Nano Materials, 2021, 4, 8600-8610.	2.4	17
20	Heat accumulation during femtosecond laser treatment at high repetition rate â€“ A morphological, chemical and crystallographic characterization of self-organized structures on Ti6Al4V. Applied Surface Science, 2021, 570, 151115.	3.1	17
21	Influence of MoS2 on Activity and Stability of Carbon Nitride in Photocatalytic Hydrogen Production. Catalysts, 2019, 9, 695.	1.6	15
22	Operando detection of single nanoparticle activity dynamics inside a model pore catalyst material. Science Advances, 2020, 6, eaba7678.	4.7	14
23	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
24	Additive-Free Nickel-Catalyzed Debenzylation Reactions via Hydrogenative Câ€“O and Câ€“N Bond Cleavage. ACS Sustainable Chemistry and Engineering, 2019, 7, 17107-17113.	3.2	12
25	Iron/N-doped graphene nano-structured catalysts for general cyclopropanation of olefins. Chemical Science, 2020, 11, 6217-6221.	3.7	12
26	Biomolecule-derived supported cobalt nanoparticles for hydrogenation of industrial olefins, natural oils and more in water. Green Chemistry, 2019, 21, 5104-5112.	4.6	11
27	TiO₂-Supported catalysts with ZnO and ZrO₂ for non-oxidative dehydrogenation of propane: mechanistic analysis and application potential. Catalysis Science and Technology, 2020, 10, 7046-7055.	2.1	11
28	Towards a practical perfluoroalkylation of (hetero)arenes with perfluoroalkyl bromides using cobalt nanocatalysts. Catalysis Science and Technology, 2020, 10, 1731-1738.	2.1	10
29	Copper-catalysed low-temperature waterâ€“gas shift reaction for selective deuteration of aryl halides. Chemical Science, 2021, 12, 14033-14038.	3.7	10
30	Oxygen vacancies in Ru/TiO2 - drivers of low-temperature CO2 methanation assessed by multimodal operando spectroscopy. IScience, 2022, 25, 103886.	1.9	10
31	Manganeseâ€Catalysed Deuterium Labelling of Anilines and Electronâ€Rich (Hetero)Arenes. Angewandte Chemie - International Edition, 2022, 61, .	7.2	9
32	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
33	Elucidating the effects of individual components in K_xMnO_y/SiO₂and water on selectivity enhancement in the oxidative coupling of methane. Catalysis Science and Technology, 2021, 11, 5827-5838.	2.1	6
34	Diastereoselective hydrogenation of arenes and pyridines using supported ruthenium nanoparticles under mild conditions. Chemical Communications, 2022, 58, 8842-8845.	2.2	6
35	Enhanced photocatalytic performance of polymeric carbon nitride through combination of iron loading and hydrogen peroxide treatment. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 589, 124383.	2.3	5
36	Morphological impact on the reaction kinetics of size-selected cobalt oxide nanoparticles. Journal of Chemical Physics, 2015, 143, 114301.	1.2	3

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37	Bimetallic Agâ€Pt Subâ€nanometer Supported Clusters as Highly Efficient and Robust Oxidation Catalysts. Angewandte Chemie, 2018, 130, 1223-1227.	1.6	3
38	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
39	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
40	Heterogeneously Catalysed Oxidative Dehydrogenation of Menthol in a Fixedâ€Bed Reactor in the Gas Phase. ChemistryOpen, 2019, 8, 1066-1075.	0.9	1
41	Ex situ investigations of MOCVD-grown gallium nitride nanowires using reflection high energy electron diffraction. IOP Conference Series: Materials Science and Engineering, 2011, 23, 012038.	0.3	0
42	The solvent determines the product in the hydrogenation of aromatic ketones using unligated RhCl₃ as catalyst precursor. Catalysis Science and Technology, 2021, 11, 7608-7616.	2.1	0
43	Manganeseâ€Catalysed Deuterium Labelling of Anilines and Electronâ€Rich (Hetero)Arenes. Angewandte Chemie, 0, , .	1.6	0