

# Wolfgang Kleist

## List of Publications by Year in descending order

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61  
papers

3,637  
citations

117625

34  
h-index

133252

59  
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63  
all docs

63  
docs citations

63  
times ranked

5116  
citing authors

#	ARTICLE	IF	CITATIONS
1	Formic Acid-Assisted Selective Hydrogenolysis of 5-Hydroxymethylfurfural to 2,5-Dimethylfuran over Bifunctional Pd Nanoparticles Supported on N-Doped Mesoporous Carbon. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6807-6815.	13.8	65
2	Increasing the Complexity in the MIL-53 Structure: The Combination of the Mixed-Metal and the Mixed-Linker Concepts. <i>Chemistry - A European Journal</i> , 2021, 27, 1724-1735.	3.3	4
3	One-Step Synthesis of Core-Shell-Structured Mixed-Metal CPO-27(Cu,Co) and Investigations on Its Controlled Thermal Transformation. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 2257-2261.	2.0	1
4	Synthesis of Cu Single Atoms Supported on Mesoporous Graphitic Carbon Nitride and Their Application in Liquid-Phase Aerobic Oxidation of Cyclohexene. <i>ACS Catalysis</i> , 2021, 11, 7863-7875.	11.2	56
5	Fast and Selective Aqueous-Phase Oxidation of Styrene to Acetophenone Using a Mesoporous Janus-Type Palladium Catalyst. <i>Molecules</i> , 2021, 26, 6450.	3.8	5
6	Janus bifunctional periodic mesoporous organosilica. <i>Chemical Communications</i> , 2021, 58, 112-115.	4.1	4
7	Post-synthetic Modification of DUT-5-based Metal Organic Frameworks for the Generation of Single-site Catalysts and their Application in Selective Epoxidation Reactions. <i>ChemCatChem</i> , 2020, 12, 1134-1142.	3.7	16
8	Experimental Evidence for the Incorporation of Two Metals at Equivalent Lattice Positions in Mixed-Metal Metal-Organic Frameworks. <i>Chemistry - A European Journal</i> , 2020, 26, 5667-5675.	3.3	9
9	Hard X-ray-based techniques for structural investigations of CO <sub>2</sub> methanation catalysts prepared by MOF decomposition. <i>Nanoscale</i> , 2020, 12, 15800-15813.	5.6	19
10	The introduction of functional side groups and the application of the mixed-linker concept in divalent MIL-53(Ni) materials. <i>Dalton Transactions</i> , 2020, 49, 9148-9154.	3.3	0
11	Tailoring the breathing behavior of functionalized MIL-53(Al,M)-NH <sub>2</sub> materials by using the mixed-metal concept. <i>Microporous and Mesoporous Materials</i> , 2020, 308, 110329.	4.4	15
12	Continuous production of higher alcohols from synthesis gas and ethanol using Cs-modified CuO/ZnO/Al <sub>2</sub> O <sub>3</sub> catalysts. <i>Applied Catalysis A: General</i> , 2019, 585, 117150.	4.3	8
13	Enhancing the water splitting performance of cryptomelane-type $\delta$ -(K)MnO <sub>2</sub> . <i>Journal of Catalysis</i> , 2019, 374, 335-344.	6.2	27
14	Regulating the size and spatial distribution of Pd nanoparticles supported by the defect engineered metal-organic framework HKUST-1 and applied in the aerobic oxidation of cinnamyl alcohol. <i>Catalysis Science and Technology</i> , 2019, 9, 3703-3710.	4.1	21
15	Synthetic Strategies and Structural Arrangements of Isorecticular Mixed-Component Metal-Organic Frameworks. <i>Chemistry - A European Journal</i> , 2019, 25, 1866-1882.	3.3	58
16	Structural insights into methanation catalysts from MOF precursors via PDF. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, e311-e311.	0.1	0
17	Operando Raman spectroscopy on CO <sub>2</sub> methanation over alumina-supported Ni, Ni <sub>3</sub> Fe and NiRh <sub>0.1</sub> catalysts: Role of carbon formation as possible deactivation pathway. <i>Applied Catalysis A: General</i> , 2018, 556, 160-171.	4.3	61
18	Reactivity of Bismuth Molybdates for Selective Oxidation of Propylene Probed by Correlative Operando Spectroscopies. <i>ACS Catalysis</i> , 2018, 8, 6462-6475.	11.2	28

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19	Supported gold- and silver-based catalysts for the selective aerobic oxidation of 5-(hydroxymethyl)furfural to 2,5-furandicarboxylic acid and 5-hydroxymethyl-2-furancarboxylic acid. <i>Green Chemistry</i> , 2018, 20, 3530-3541.	9.0	93
20	CuPd Mixed-Metal HKUST-1 as a Catalyst for Aerobic Alcohol Oxidation. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21433-21440.	3.1	40
21	Continuous Synthesis of $\hat{\Gamma}^3$ -Valerolactone in a Trickle-Bed Reactor over Supported Nickel Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 2680-2689.	3.7	34
22	Aerobic oxidation of $\hat{\Gamma}^{\pm}$ -pinene catalyzed by homogeneous and MOF-based Mn catalysts. <i>Applied Catalysis A: General</i> , 2017, 546, 1-6.	4.3	33
23	Potential of an Alumina-Supported Ni <sub>3</sub> Fe Catalyst in the Methanation of CO <sub>2</sub> : Impact of Alloy Formation on Activity and Stability. <i>ACS Catalysis</i> , 2017, 7, 6802-6814.	11.2	150
24	Recent Advances in Selective Propylene Oxidation over Bismuth Molybdate Based Catalysts: Synthetic, Spectroscopic, and Theoretical Approaches. <i>ACS Catalysis</i> , 2017, 7, 5628-5642.	11.2	67
25	Surface Oxidation of Supported Ni Particles and Its Impact on the Catalytic Performance during Dynamically Operated Methanation of CO <sub>2</sub> . <i>Catalysts</i> , 2017, 7, 279.	3.5	55
26	Dynamic transformation of small Ni particles during methanation of CO <sub>2</sub> under fluctuating reaction conditions monitored by <i>operando</i> X-ray absorption spectroscopy. <i>Journal of Physics: Conference Series</i> , 2016, 712, 012050.	0.4	14
27	Continuous Catalytic Hydrodeoxygenation of Guaiacol over Pt/SiO <sub>2</sub> and Pt/H-MFI-90. <i>Catalysts</i> , 2015, 5, 1152-1166.	3.5	30
28	Bismuth Molybdate Catalysts Prepared by Mild Hydrothermal Synthesis: Influence of pH on the Selective Oxidation of Propylene. <i>Catalysts</i> , 2015, 5, 1554-1573.	3.5	38
29	Synthesis of $\hat{\Gamma}^3$ -valerolactone by hydrogenation of levulinic acid over supported nickel catalysts. <i>Applied Catalysis A: General</i> , 2015, 502, 18-26.	4.3	87
30	Effect of the Addition of Ethanol to Synthesis Gas on the Production of Higher Alcohols over Cs and Ru Modified Cu/ZnO Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 1452-1463.	3.7	11
31	Systematic study on the influence of the morphology of $\hat{\Gamma}^{\pm}$ -MoO <sub>3</sub> in the selective oxidation of propylene. <i>Journal of Solid State Chemistry</i> , 2015, 228, 42-52.	2.9	24
32	Methanation of CO <sub>2</sub> : Structural response of a Ni-based catalyst under fluctuating reaction conditions unraveled by <i>operando</i> spectroscopy. <i>Journal of Catalysis</i> , 2015, 327, 48-53.	6.2	143
33	Synthesis and post-synthetic modification of amine-, alkyne-, azide- and nitro-functionalized metal-organic frameworks based on DUT-5. <i>Dalton Transactions</i> , 2015, 44, 16802-16809.	3.3	48
34	Synthesis and characterization of bimetallic metal-organic framework Cu-Ru-BTC with HKUST-1 structure. <i>Dalton Transactions</i> , 2015, 44, 2052-2056.	3.3	81
35	Catalytic hydrodeoxygenation of guaiacol over platinum supported on metal oxides and zeolites. <i>Applied Catalysis A: General</i> , 2015, 490, 181-192.	4.3	112
36	Design of Highly Porous Single-Site Catalysts through Two-Step Postsynthetic Modification of Mixed-Linker MIL-53(Al). <i>ChemPlusChem</i> , 2015, 80, 188-195.	2.8	26

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37	One-step synthesis of bismuth molybdate catalysts via flame spray pyrolysis for the selective oxidation of propylene to acrolein. <i>Chemical Communications</i> , 2014, 50, 15404-15406.	4.1	36
38	CHAPTER 6. Hydrodeoxygenation of Lignocellulose-Derived Platform Molecules. <i>RSC Energy and Environment Series</i> , 2014, , 125-150.	0.5	3
39	Selective oxidation of propylene to acrolein by hydrothermally synthesized bismuth molybdates. <i>Applied Catalysis A: General</i> , 2014, 482, 145-156.	4.3	41
40	Global Challenges in Chemicals and Energies - Standardization and Acceleration of Catalysis R & D. , 2014, , 310-316.		0
41	Salen-Based Coordination Polymers of Manganese and the Rare-Earth Elements: Synthesis and Catalytic Aerobic Epoxidation of Olefins. <i>Chemistry - A European Journal</i> , 2013, 19, 1986-1995.	3.3	62
42	Post-synthetic immobilization of palladium complexes on metal-organic frameworks - a new concept for the design of heterogeneous catalysts for Heck reactions. <i>RSC Advances</i> , 2013, 3, 10676.	3.6	49
43	Aerobic Epoxidation of Olefins Catalyzed by the Cobalt-Based Metal-Organic Framework STA-12(Co). <i>Chemistry - A European Journal</i> , 2012, 18, 887-898.	3.3	110
44	Identification of the Active Species Generated from Supported Pd Catalysts in Heck Reactions: An in situ Quick Scanning EXAFS Investigation. <i>Journal of the American Chemical Society</i> , 2011, 133, 3921-3930.	13.7	97
45	Synthesis, structural properties, and catalytic behavior of Cu-BTC and mixed-linker Cu-BTC-PyDC in the oxidation of benzene derivatives. <i>Journal of Catalysis</i> , 2011, 281, 76-87.	6.2	179
46	Platinum Nanoparticles: The Crucial Role of Crystal Face and Colloid Stabilizer in the Diastereoselective Hydrogenation of Cinchonidine. <i>Chemistry - A European Journal</i> , 2010, 16, 2181-2192.	3.3	53
47	MOF-5 based mixed-linker metal-organic frameworks: Synthesis, thermal stability and catalytic application. <i>Thermochimica Acta</i> , 2010, 499, 71-78.	2.7	142
48	Flame-made MgAl <sub>2</sub> xMxO <sub>4</sub> (M=Mn, Fe, Co) mixed oxides: Structural properties and catalytic behavior in methane combustion. <i>Applied Catalysis B: Environmental</i> , 2010, 97, 398-406.	20.2	35
49	Effect of Dehydration on the Local Structure of Framework Aluminum Atoms in Mixed Linker MIL-53(Al) Materials Studied by Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2886-2890.	4.6	54
50	Tuning functional sites and thermal stability of mixed-linker MOFs based on MIL-53(Al). <i>Dalton Transactions</i> , 2010, 39, 3795.	3.3	123
51	Pd/MOx Materials Synthesized by Sol-Gel Coprecipitation as Catalysts for Carbon-Carbon Coupling Reactions of Aryl Bromides and Chlorides. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 261-266.	2.0	20
52	Mixed-Linker Metal-Organic Frameworks as Catalysts for the Synthesis of Propylene Carbonate from Propylene Oxide and CO <sub>2</sub> . <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 3552-3561.	2.0	229
53	Amination of aryl chlorides and fluorides toward the synthesis of aromatic amines by palladium-catalyzed route or transition metal free way: Scopes and limitations. <i>Journal of Molecular Catalysis A</i> , 2009, 303, 15-22.	4.8	18
54	Heck Reactions of Aryl Chlorides Catalyzed by Ligand Free Palladium Salts. <i>Catalysis Letters</i> , 2008, 125, 197-200.	2.6	49

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55	Gold-Catalyzed Aerobic Oxidation of Benzyl Alcohol: Effect of Gold Particle Size on Activity and Selectivity in Different Solvents. <i>Catalysis Letters</i> , 2008, 125, 169-176.	2.6	108
56	Genesis of Coordinatively Unsaturated Palladium Complexes Dissolved from Solid Precursors during Heck Coupling Reactions and Their Role as Catalytically Active Species. <i>Inorganic Chemistry</i> , 2007, 46, 1876-1883.	4.0	187
57	A simple aqueous phase synthesis of high surface area aluminum fluoride and its bulk and surface structure. <i>Inorganica Chimica Acta</i> , 2006, 359, 4851-4854.	2.4	25
58	Supported Palladium Catalysts in Heck Coupling Reactions - Problems, Potential and Recent Advances. <i>Current Organic Chemistry</i> , 2006, 10, 1585-1601.	1.6	57
59	Copper-free heterogeneous catalysts for the Sonogashira cross-coupling reaction: Preparation, characterisation, activity and applications for organic synthesis. <i>Journal of Molecular Catalysis A</i> , 2005, 241, 39-51.	4.8	99
60	Design of highly active heterogeneous palladium catalysts for the activation of aryl chlorides in Heck reactions. <i>Tetrahedron</i> , 2005, 61, 9855-9859.	1.9	81
61	In Situ Generation of Highly Active Dissolved Palladium Species from Solid Catalysts – A Concept for the Activation of Aryl Chlorides in the Heck Reaction. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 1881-1882.	13.8	251