

Kai-Olaf Hinrichsen

List of Publications by Year in descending order

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147
papers

6,042
citations

76326

40
h-index

79698

73
g-index

156
all docs

156
docs citations

156
times ranked

5213
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability evaluation of earthâ€abundant metalâ€abased polyoxometalate electrocatalysts for oxygen evolution reaction towards industrial PEM electrolysis at high current densities. <i>Electrochemical Science Advances</i> , 2022, 2, e202100073.	2.8	3
2	K ⁺ Transport in Perfluorosulfonic Acid Membranes and Its Influence on Membrane Resistance in CO ₂ Electrolysis. <i>ChemElectroChem</i> , 2022, 9, .	3.4	7
3	Development of a manufacturing process for Binder Jet 3D printed porous Al ₂ O ₃ supports used in heterogeneous catalysis. <i>Additive Manufacturing</i> , 2022, 50, 102498.	3.0	6
4	A model-based analysis of washcoat distribution on zoned coated gasoline particulate filters. <i>Chemical Engineering Journal</i> , 2022, 441, 135615.	12.7	5
5	Photoâ€adifferential scanning calorimetry parameter study of photopolymers used in digital light synthesis. <i>SPE Polymers</i> , 2022, 3, 41-53.	3.3	7
6	Experimental Investigation on Thermal Runaway Propagation in Lithium-Ion Battery Cell Stack. , 2022, , .		2
7	3D printed co-precipitated Ni-Al CO ₂ methanation catalysts by Binder Jetting: Fabrication, characterization and test in a single pellet string reactor. <i>Applied Catalysis A: General</i> , 2022, 643, 118760.	4.3	5
8	On the kinetics of the co-methanation of CO and CO ₂ on a co-precipitated Ni-Al catalyst. <i>Applied Catalysis B: Environmental</i> , 2021, 282, 119408.	20.2	38
9	Numerical shape development study in view of random packed beds â€“ The Yo-Yo shape. <i>Chemical Engineering Journal</i> , 2021, 404, 126468.	12.7	4
10	Experimental and numerical analysis of void structure in random packed beds of spheres. <i>Powder Technology</i> , 2021, 380, 613-628.	4.2	31
11	Review on the structure of random packedâ€abeds. <i>Canadian Journal of Chemical Engineering</i> , 2021, 99, .	1.7	27
12	Investigation of the temperature influence on the dual curing urethane-methacrylate resin Rigid Polyurethane 70 (RPU 70) in digital light synthesis (DLS). <i>Additive Manufacturing</i> , 2021, 37, 101677.	3.0	6
13	Numerical Simulation of Pellet Shrinkage within Random Packed Beds. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 6863-6867.	3.7	2
14	Influence of material properties on voidage of numerically generated random packed beds. <i>Chemical Engineering Science</i> , 2021, 233, 116406.	3.8	4
15	Photo-DSC method for liquid samples used in vat photopolymerization. <i>Analytica Chimica Acta</i> , 2021, 1153, 338268.	5.4	19
16	Cavity vat photopolymerisation for additive manufacturing of polymer-composite 3D objects. <i>Communications Materials</i> , 2021, 2, .	6.9	8
17	Modeling the Catalytic Performance of Coated Gasoline Particulate Filters under Various Operating Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 16993-17005.	3.7	7
18	Analysis on Thermal Runaway Behavior of Prismatic Lithium-Ion Batteries with Autoclave Calorimetry. <i>Journal of the Electrochemical Society</i> , 2021, 168, 120515.	2.9	18

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19	Intrinsic kinetic model for oxidative dehydrogenation of ethane over MoVTeNb mixed metal oxides: A mechanistic approach. <i>Chemical Engineering Journal</i> , 2020, 383, 123195.	12.7	19
20	Targeted Fe ^δ -Doping of Ni ^δ -Al Catalysts via the Surface Redox Reaction Technique for Unravelling its Promoter Effect in the CO ₂ Methanation Reaction. <i>ChemCatChem</i> , 2020, 12, 649-662.	3.7	10
21	CFD-DEM study of geometry changes in an AnFMBR towards particle momentum. <i>Chemical Engineering Journal</i> , 2020, 379, 122336.	12.7	5
22	CO ₂ methanation on transition-metal-promoted Ni-Al catalysts: Sulfur poisoning and the role of CO ₂ adsorption capacity for catalyst activity. <i>Journal of CO₂ Utilization</i> , 2020, 36, 276-287.	6.8	26
23	Numerical Investigation of Pressure Drop in Single Pellet String Reactors. <i>Chemical Engineering and Technology</i> , 2020, 43, 172-178.	1.5	6
24	Morphological tuning of membrane processing by temporal proton-metal cation substitution in perfluorosulfonic acid membranes. <i>Electrochimica Acta</i> , 2020, 362, 137182.	5.2	5
25	Enhanced activity of co-precipitated NiFeAlO in CO ₂ methanation by segregation and oxidation of Fe. <i>Applied Catalysis A: General</i> , 2020, 604, 117778.	4.3	15
26	Single-event kinetic model for methanol-to-olefins (MTO) over ZSM-5: Fundamental kinetics for the olefin co-feed reactivity. <i>Chemical Engineering Journal</i> , 2020, 402, 126023.	12.7	22
27	Implementation and evaluation of a three-level grid method for CFD-DEM simulations of dense gas-solid flows. <i>Chemical Engineering Journal Advances</i> , 2020, 4, 100048.	5.2	4
28	Experimental Validation of a Multidimensional Model for an Indirect Temperature Swing Adsorption Unit. <i>Chemie-Ingenieur-Technik</i> , 2020, 92, 711-719.	0.8	3
29	Extended Model for Filtration in Gasoline Particulate Filters under Practical Driving Conditions. <i>Environmental Science & Technology</i> , 2020, 54, 9285-9294.	10.0	14
30	Experimental characterization of random packed spheres, cylinders and rings, and their influence on pressure drop. <i>Chemical Engineering Science</i> , 2020, 222, 115644.	3.8	12
31	A hybrid Eulerian-Eulerian-Lagrangian model for gas-solid simulations. <i>Chemical Engineering Journal</i> , 2019, 377, 119743.	12.7	17
32	2D flow fields in fixed-bed reactor design: a robust methodology for continuum models. <i>Chemical Engineering Science</i> , 2019, 208, 115137.	3.8	9
33	On Reaction Pathways and Intermediates During Catalytic Olefin Cracking over ZSM-5. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 18107-18124.	3.7	11
34	Sulfur poisoning of co-precipitated Ni ^δ -Al catalysts for the methanation of CO ₂ . <i>Journal of CO₂ Utilization</i> , 2019, 32, 80-91.	6.8	27
35	On the interaction of CO ₂ with Ni-Al catalysts. <i>Applied Catalysis A: General</i> , 2019, 580, 71-80.	4.3	36
36	Characterisation and design of single pellet string reactors using numerical simulation. <i>Chemical Engineering Journal</i> , 2019, 373, 1397-1408.	12.7	13

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37	Epoxidation of methyl oleate in a rotor-stator spinning disc reactor. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019, 136, 152-162.	3.6	13
38	Advantages of CO over CO ₂ as reactant for electrochemical reduction to ethylene, ethanol and n-propanol on gas diffusion electrodes at high current densities. <i>Electrochimica Acta</i> , 2019, 307, 164-175.	5.2	58
39	Influence of fire intensity, fire impingement area and internal pressure on the fire resistance of composite pressure vessels for the storage of hydrogen in automobile applications. <i>Fire Safety Journal</i> , 2019, 104, 1-7.	3.1	16
40	On the deactivation of Ni-Al catalysts in CO ₂ methanation. <i>Applied Catalysis A: General</i> , 2019, 570, 376-386.	4.3	86
41	Evaluation of Effectiveness Factors for Multicomponent Diffusion Models Inside 3D Catalyst Shapes. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 110-119.	3.7	13
42	Optimal process for catalytic cracking of higher olefins on ZSM-5. <i>Chemical Engineering Journal</i> , 2018, 348, 84-94.	12.7	19
43	Contactless temperature measurements under static and dynamic reaction conditions in a single-pass fixed bed reactor for CO ₂ methanation. <i>Journal of CO₂ Utilization</i> , 2018, 25, 158-169.	6.8	8
44	A Monte-Carlo-based sensitivity analysis of multicomponent diffusion in porous catalysts. <i>Chemical Engineering Science</i> , 2018, 185, 282-291.	3.8	14
45	Electrochemical Reduction of CO ₂ in Water-Based Electrolytes KHCO ₃ and K ₂ SO ₄ Using Boron Doped Diamond Electrodes. <i>ChemistrySelect</i> , 2018, 3, 3591-3595.	1.5	15
46	Upscaling and continuous operation of electrochemical CO ₂ to CO conversion in aqueous solutions on silver gas diffusion electrodes. <i>Journal of CO₂ Utilization</i> , 2018, 24, 454-462.	6.8	153
47	Optimization of the synthesis of Ni catalysts via chemical vapor deposition by response surface methodology. <i>Chemical Engineering Research and Design</i> , 2018, 132, 303-312.	5.6	7
48	Scripting as an Approach to Automated CFD Simulation for Packed Bed Catalytic Reactor Modeling. <i>Chemie-Ingenieur-Technik</i> , 2018, 90, 685-689.	0.8	3
49	Additive Manufacturing of Al ₂ O ₃ -Based Carriers for Heterogeneous Catalysis. <i>Chemie-Ingenieur-Technik</i> , 2018, 90, 703-707.	0.8	22
50	CO ₂ methanation over Fe- and Mn-promoted co-precipitated Ni-Al catalysts: Synthesis, characterization and catalysis study. <i>Applied Catalysis A: General</i> , 2018, 558, 44-54.	4.3	80
51	Social aspects of water consumption: risk of access to unimproved drinking water and to unimproved sanitation facilities—an example from the automobile industry. <i>International Journal of Life Cycle Assessment</i> , 2018, 23, 940-956.	4.7	8
52	Characterization of nickel catalysts with transient methods. <i>Applied Catalysis A: General</i> , 2018, 549, 93-101.	4.3	41
53	Simultaneous activity and stability increase of co-precipitated Ni-Al CO ₂ methanation catalysts by synergistic effects of Fe and Mn promoters. <i>Catalysis Science and Technology</i> , 2018, 8, 5920-5932.	4.1	21
54	Kinetic Modeling of Catalytic Olefin Cracking and Methanol-to-Olefins (MTO) over Zeolites: A Review. <i>Catalysts</i> , 2018, 8, 626.	3.5	33

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55	Influence of Cylinder-to-Particle Diameter Ratio and Filling Speed on Bed Porosity of Random Packed Beds of Spheres. <i>Computer Aided Chemical Engineering</i> , 2018, 43, 97-102.	0.5	5
56	CFD simulation of single-phase heat transfer in a rotor-stator spinning disc reactor. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 131, 150-160.	3.6	10
57	Optimization of the product spectrum for 1-pentene cracking on ZSM-5 using single-event methodology. Part 1: Two-zone reactor. <i>Chemical Engineering Journal</i> , 2017, 309, 886-897.	12.7	16
58	Rotor-Stator Spinning Disc Reactor: Characterization of the Single-Phase Stator-Side Heat Transfer. <i>Chemical Engineering and Technology</i> , 2017, 40, 2123-2133.	1.5	7
59	Experimental Study on the Influence of Filling Method and Particle Material on the Packed-Bed Porosity. <i>Chemie-Ingenieur-Technik</i> , 2017, 89, 454-458.	0.8	16
60	Single-Event Kinetic Modeling of Olefin Cracking on ZSM-5: Proof of Feed Independence. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 13096-13108.	3.7	18
61	Optimization of the product spectrum for 1-pentene cracking on ZSM-5 using single-event methodology. Part 2: Recycle reactor. <i>Chemical Engineering Journal</i> , 2017, 309, 873-885.	12.7	18
62	Single-Phase Flow Residence-Time Distributions in a Rotor-Stator Spinning Disc Reactor. <i>Chemical Engineering and Technology</i> , 2016, 39, 2435-2443.	1.5	15
63	Development of a new 3D OpenFOAM® solver to model the cooling stage in profile extrusion. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	1
64	Chemical Reaction Engineering. <i>Chemical Engineering and Technology</i> , 2016, 39, 1992-1992.	1.5	2
65	Gas-Liquid mass transfer in a rotor-stator spinning disc reactor: Experimental study and correlation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 104, 181-189.	3.6	31
66	Continuous-Flow Synthesis and Functionalization of Magnetite: Intensified Process for Tailored Nanoparticles. <i>Chemical Engineering and Technology</i> , 2016, 39, 2051-2058.	1.5	11
67	Entwicklung eines optisch zugänglichen Reaktors zur Thermographiemessung in einer Katalysatorschüttung. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 1693-1702.	0.8	8
68	Development and validation of a model for the temperature distribution in the extrusion calibration stage. <i>Applied Thermal Engineering</i> , 2016, 100, 538-552.	6.0	18
69	On the kinetics of the methanation of carbon dioxide on coprecipitated NiAl(O). <i>Applied Catalysis B: Environmental</i> , 2016, 181, 504-516.	20.2	218
70	Weiterentwicklung und Charakterisierung eines Spinning-Disc-Reaktors nach dem Rotor-Stator-Prinzip. <i>Chemie-Ingenieur-Technik</i> , 2015, 87, 830-836.	0.8	9
71	Metallic Honeycombs as Catalyst Supports for Methanation of Carbon Dioxide. <i>Chemical Engineering and Technology</i> , 2015, 38, 1845-1852.	1.5	16
72	Single-Event Kinetic Model for 1-Pentene Cracking on ZSM-5. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 11792-11803.	3.7	29

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73	Kinetics of deactivation on Cu/ZnO/Al ₂ O ₃ methanol synthesis catalysts. Applied Catalysis A: General, 2015, 502, 262-270.	4.3	202
74	An improved conditionally volume averaged viscoelastic two-phase model for simulation of transient droplet deformations under simple shear. Chemical Engineering Science, 2015, 126, 32-41.	3.8	0
75	Hydrodynamics of lime-based pellets in a Dual Fluidized Bed and the effect of temperature. Chemical Engineering Journal, 2015, 260, 532-540.	12.7	3
76	A simulation-enhanced value stream mapping approach for optimisation of complex production environments. International Journal of Production Research, 2014, 52, 6146-6160.	7.5	39
77	Single-Event Kinetic Model for Cracking and Isomerization of 1-Hexene on ZSM-5. Industrial & Engineering Chemistry Research, 2014, 53, 19460-19470.	3.7	18
78	On the Temperature Programmed Desorption of Hydrogen from Polycrystalline Copper. Catalysis Letters, 2014, 144, 2114-2120.	2.6	8
79	Study on CFD- μ PBM turbulence closures based on $k\epsilon$ and Reynolds stress models for heterogeneous bubble column flows. Computers and Fluids, 2014, 105, 91-100.	2.5	61
80	Numerical simulation of the viscoelastic flow in a three-dimensional lid-driven cavity using the log-conformation reformulation in OpenFOAM [®] . Journal of Non-Newtonian Fluid Mechanics, 2014, 212, 47-62.	2.4	49
81	The Influence of Interfacial Areas for Gas Absorption in the Presence of Solid Particles. Chemical Engineering and Technology, 2014, 37, 1468-1474.	1.5	3
82	CFD modeling of bubbling fluidized beds using OpenFOAM [®] : Model validation and comparison of TVD differencing schemes. Computers and Chemical Engineering, 2014, 69, 75-88.	3.8	29
83	Comparison of a Pseudocontinuous, Heterogeneous 2D Conductive Monolith Reactor Model to a 3D Computational Fluid Dynamics Model. Industrial & Engineering Chemistry Research, 2014, 53, 11550-11556.	3.7	8
84	Counting of Oxygen Defects versus Metal Surface Sites in Methanol Synthesis Catalysts by Different Probe Molecules. Angewandte Chemie - International Edition, 2014, 53, 7043-7047.	13.8	119
85	A fixed-bed reactor modeling study on the methanation of CO ₂ . Chemical Engineering Research and Design, 2014, 92, 702-712.	5.6	151
86	CFD Simulation of Hydrodynamics and Methanation Reactions in a Fluidized-Bed Reactor for the Production of Synthetic Natural Gas. Industrial & Engineering Chemistry Research, 2014, 53, 9348-9356.	3.7	44
87	Kinetic Study of Heterogeneously Catalyzed Glucose Oxidation in a Stirred Cell. Chemie-Ingenieur-Technik, 2014, 86, 1948-1953.	0.8	4
88	Numerical Simulation of Tube Erosion in a Bubbling Fluidized Bed with a Dense Tube Bundle. Chemical Engineering and Technology, 2013, 36, 635-644.	1.5	10
89	Semi-implicit stress formulation for viscoelastic models: Application to three-dimensional contraction flows. Journal of Non-Newtonian Fluid Mechanics, 2013, 199, 70-79.	2.4	18
90	Modeling and simulation of conditionally volume averaged viscoelastic two-phase flows. AIChE Journal, 2013, 59, 3914-3927.	3.6	8

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91	Continuous precipitation of Cu/ZnO/Al ₂ O ₃ catalysts for methanol synthesis in microstructured reactors with alternative precipitating agents. Applied Catalysis A: General, 2013, 450, 1-12.	4.3	36
92	Process Intensification on Synthesis of Nanoparticles in a Spinning Disc Reactor. Chemie-Ingenieur-Technik, 2013, 85, 540-549.	0.8	10
93	CFD Analysis of the Frame Invariance of the Melt Temperature Rise in a Single-screw Extruder. International Polymer Processing, 2013, 28, 463-469.	0.5	7
94	Interlaboratory Test for Detection of Cytotoxic Leachables arising from Single-Use Bags. Chemie-Ingenieur-Technik, 2013, 85, 396-396.	0.8	0
95	Numerical Simulation of Multi-Scale Two-Phase Flows Using a Hybrid Interface-Resolving Two-Fluid Model (HIRES-TFM). Journal of Chemical Engineering of Japan, 2013, 46, 517-523.	0.6	5
96	Effects of Orifice Angle and Surface Roughness on the Bubbling-to-Jetting Regime Transition in a Bubble Column. Industrial & Engineering Chemistry Research, 2012, 51, 4445-4451.	3.7	2
97	Micromixing Efficiency of a Spinning Disk Reactor. Industrial & Engineering Chemistry Research, 2012, 51, 11643-11652.	3.7	57
98	Detailed kinetic modeling of methanol synthesis over a ternary copper catalyst. Chemical Engineering Journal, 2012, 203, 480-491.	12.7	53
99	Numerical simulation of species transfer across fluid interfaces in free-surface flows using OpenFOAM. Chemical Engineering Science, 2012, 78, 111-127.	3.8	123
100	On the interaction of carbon monoxide with ternary Cu/ZnO/Al ₂ O ₃ catalysts: modeling of dynamic morphological changes and the influence on elementary step kinetics. Catalysis Science and Technology, 2012, 2, 2249.	4.1	5
101	Comparison of differently synthesized Ni(Al)MCM-48 catalysts in the ethene to propene reaction. Microporous and Mesoporous Materials, 2012, 164, 164-171.	4.4	45
102	Development of a methodology for numerical simulation of non-isothermal viscoelastic fluid flows with application to axisymmetric 4:1 contraction flows. Chemical Engineering Journal, 2012, 207-208, 772-784.	12.7	27
103	Modeling of Temperature-Programmed Desorption (TPD) Flow Experiments from Cu/ZnO/Al ₂ O ₃ Catalysts. Catalysis Letters, 2012, 142, 547-556.	2.6	6
104	Numerical simulation of viscoelastic two-phase flows using openFOAM®. Chemical Engineering Science, 2011, 66, 5487-5496.	3.8	50
105	Numerical Simulation of Dispersed Gas/Liquid Flows in Bubble Columns at High Phase Fractions using OpenFOAM®. Part I "Modeling Basics. Chemical Engineering and Technology, 2011, 34, 1311-1320.	1.5	17
106	Numerical Simulation of Dispersed Gas/Liquid Flows in Bubble Columns at High Phase Fractions using OpenFOAM®. Part II "Numerical Simulations and Results. Chemical Engineering and Technology, 2011, 34, 1321-1327.	1.5	20
107	Numerical Simulation of Dispersed Gas/Liquid Flows in Bubble Columns at High Phase Fractions using OpenFOAM® Part I "Modeling Fundamentals. Chemie-Ingenieur-Technik, 2010, 82, 2129-2140.	0.8	3
108	Numerische Simulation disperser Gas/Flüssig-Strömungen in Blasensäulen bei hohen Gasgehalten mit OpenFOAM®. Teil 2 - Numerische Simulation und Ergebnisse. Numerical Simulation of Dispersed Gas/Liquid Flows in Bubble Columns at High Phase Fractions using O. Chemie-Ingenieur-Technik, 2010, 82, 2141-2149.	0.8	2

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109	The influence of strongly reducing conditions on strong metal-support interactions in Cu/ZnO catalysts used for methanol synthesis. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 1525.	2.8	130
110	Microkinetic modeling of CO TPD spectra using coverage dependent microcalorimetric heats of adsorption. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 1556-65.	2.8	7
111	Basischemikalie Methanol. <i>Nachrichten Aus Der Chemie</i> , 2006, 54, 1080-1084.	0.0	2
112	On the Role of Oxygen Defects in the Catalytic Performance of Zinc Oxide. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 2965-2969.	13.8	235
113	The coverage-dependent adsorption of carbon monoxide on hydrogen-reduced copper catalysts: the combined application of microcalorimetry, temperature-programmed desorption and FTIR spectroscopy. <i>Thermochimica Acta</i> , 2005, 434, 132-139.	2.7	14
114	Active Sites on Oxide Surfaces: ZnO-Catalyzed Synthesis of Methanol from CO and H ₂ . <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2790-2794.	13.8	192
115	New Synthetic Routes to More Active Cu/ZnO Catalysts Used for Methanol Synthesis. <i>Catalysis Letters</i> , 2004, 92, 49-52.	2.6	120
116	MOCVD-Loading of Mesoporous Siliceous Matrices with Cu/ZnO: Supported Catalysts for Methanol Synthesis. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 2839-2842.	13.8	60
117	Rational Catalyst Design of Methanol Synthesis Catalysts. <i>Chemical Engineering and Technology</i> , 2004, 27, 1146-1150.	1.5	16
118	On the Nature of the Active State of Supported Ruthenium Catalysts Used for the Oxidation of Carbon Monoxide: A Steady-State and Transient Kinetics Combined with in Situ Infrared Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2004, 108, 14634-14642.	2.6	97
119	Deactivation of Supported Copper Catalysts for Methanol Synthesis. <i>Catalysis Letters</i> , 2003, 86, 77-80.	2.6	180
120	The interaction of hydrogen with alumina-supported copper catalysts: a temperature-programmed adsorption/temperature-programmed desorption/isotopic exchange reaction study. <i>Journal of Catalysis</i> , 2003, 215, 188-198.	6.2	70
121	Continuous Coprecipitation of Catalysts in a Micromixer: Nanostructured Cu/ZnO Composite for the Synthesis of Methanol. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 3815-3817.	13.8	84
122	Methanol synthesis over ZnO: A structure-sensitive reaction?. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 4736-4742.	2.8	101
123	The Kinetics of Ammonia Synthesis over Ruthenium-Based Catalysts: The Role of Barium and Cesium. <i>Journal of Catalysis</i> , 2002, 205, 205-212.	6.2	113
124	The Interaction of Hydrogen with Ru/MgO Catalysts. <i>Journal of Catalysis</i> , 2002, 209, 501-514.	6.2	36
125	Mechanistic Studies on the Oxidative Dehydrogenation of Methanol over Polycrystalline Silver Using the Temporal-Analysis-of-Products Approach. <i>Journal of Catalysis</i> , 2002, 210, 53-66.	6.2	36
126	The Temperature-Programmed Desorption of Oxygen from an Alumina-Supported Silver Catalyst. <i>Catalysis Letters</i> , 2002, 79, 49-54.	2.6	34

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127	Dynamical Changes in Cu/ZnO/Al ₂ O ₃ Catalysts. <i>Catalysis Letters</i> , 2002, 82, 117-122.	2.6	68
128	Temperature-programmed reduction and oxidation experiments with V ₂ O ₅ /TiO ₂ catalysts. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 4633-4638.	2.8	115
129	Rapid Kinetic Measurements in Ammonia and Methanol Syntheses. <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 2793-2800.	3.7	27
130	The Quasi-Isothermal Temperature-Programmed Method for Rapid Kinetic Measurements. <i>Chemie-Ingenieur-Technik</i> , 2001, 73, 685-685.	0.8	0
131	The Ammonia-Synthesis Catalyst of the Next Generation: Barium-Promoted Oxide-Supported Ruthenium. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 1061-1063.	13.8	271
132	Title is missing!. <i>Catalysis Letters</i> , 2001, 71, 37-44.	2.6	246
133	Fixed-bed microreactor for transient kinetic experiments with strongly adsorbing gases under high vacuum conditions. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2001, 19, 651-655.	2.1	14
134	The Ammonia-Synthesis Catalyst of the Next Generation: Barium-Promoted Oxide-Supported Ruthenium. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 1061-1063.	13.8	4
135	The Ammonia-Synthesis Catalyst of the Next Generation: Barium-Promoted Oxide-Supported Ruthenium. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 1061-1063.	13.8	6
136	Die Chemisorption von N ₂ O und H ₂ zur Oberflächenbestimmung von Kupfer-Katalysatoren. <i>Chemie-Ingenieur-Technik</i> , 2000, 72, 94-98.	0.8	5
137	Kinetic simulation of ammonia synthesis catalyzed by ruthenium. <i>Catalysis Today</i> , 1999, 53, 177-188.	4.4	58
138	The temperature-programmed desorption of hydrogen from copper surfaces. <i>Catalysis Letters</i> , 1999, 59, 137-141.	2.6	73
139	Microkinetic analysis of temperature-programmed experiments in a microreactor flow system. <i>Studies in Surface Science and Catalysis</i> , 1997, 109, 389-400.	1.5	19
140	The Kinetics of Ammonia Synthesis over Ru-Based Catalysts. <i>Journal of Catalysis</i> , 1997, 165, 33-44.	6.2	150
141	Effect of Potassium on the Kinetics of Ammonia Synthesis and Decomposition over Fused Iron Catalyst at Atmospheric Pressure. <i>Journal of Catalysis</i> , 1997, 169, 407-414.	6.2	74
142	Ruthenium catalysts for ammonia synthesis at high pressures: Preparation, characterization, and power-law kinetics. <i>Applied Catalysis A: General</i> , 1997, 151, 443-460.	4.3	263
143	The temperature-programmed desorption of N ₂ from a Ru/MgO catalyst used for ammonia synthesis. <i>Catalysis Letters</i> , 1996, 36, 229-235.	2.6	50
144	The microkinetics of ammonia synthesis catalyzed by cesium-promoted supported ruthenium. <i>Chemical Engineering Science</i> , 1996, 51, 1683-1690.	3.8	102

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145	Ruthenium as catalyst for ammonia synthesis. <i>Studies in Surface Science and Catalysis</i> , 1996, 101, 317-326.	1.5	60
146	Mikrokinetische Modellierung der temperaturprogrammierten Stickstoffdesorption vom technischen Eisenkatalysator für die Ammoniak-Synthese. <i>Chemie-Ingenieur-Technik</i> , 1994, 66, 1375-1378.	0.8	7
147	Modeling of Process Operation Principles for the Immobilized Enzyme <i>Candida Antarctica</i> under Activity Decay. <i>Chemie-Ingenieur-Technik</i> , 0, , .	0.8	0