

Martin Muhler

List of Publications by Year in descending order

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times ranked

28805
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxygen vacancies-enriched Ta-doped Bi ₂ WO ₆ with Pt as cocatalyst for boosting the dehydrogenation of benzyl alcohol in water. Applied Surface Science, 2022, 571, 151370.	6.1	3
2	Highly dispersed Pd clusters/nanoparticles encapsulated in MOFs via in situ auto-reduction method for aqueous phenol hydrogenation. Journal of Materials Science and Technology, 2022, 109, 167-175.	10.7	14
3	3D atomic-scale imaging of mixed Co-Fe spinel oxide nanoparticles during oxygen evolution reaction. Nature Communications, 2022, 13, 179.	12.8	77
4	Engineering of Cation Occupancy of CoFe ₂ O ₄ Oxidation Catalysts by Nanosecond, Single-Pulse Laser Excitation in Water. ChemCatChem, 2022, 14, .	3.7	12
5	Optical absorption spectroscopy of reactive oxygen and nitrogen species in a surface dielectric barrier discharge. Journal Physics D: Applied Physics, 2022, 55, 215205.	2.8	6
6	Non-oxidative Dehydrogenation of Methanol to Formaldehyde over Bulk Fe ₂ O ₃ . ChemCatChem, 2022, 14, .	3.7	7
7	Structure-activity correlation in aerobic cyclohexene oxidation and peroxide decomposition over Co ₃ Fe ₃ O ₄ spinel oxides. Catalysis Science and Technology, 2022, 12, 3594-3605.	4.1	4
8	High-pressure CO, H ₂ , CO ₂ and Ethylene Pulses Applied in the Hydrogenation of CO to Higher Alcohols over a Bulk Co-Cu Catalyst. ChemCatChem, 2022, 14, .	3.7	3
9	Electrooxidation of Alcohols on Mixed Copper-Cobalt Hydroxycarbonates in Alkaline Solution. ChemElectroChem, 2022, 9, .	3.4	6
10	Catalytic effects for cellulose-based model fuels under low and high heating rate in air and oxy-fuel atmosphere. Fuel, 2022, 324, 124437.	6.4	6
11	Atom Pair Frequencies as a Quantitative Structure-Activity Relationship for Catalytic 2-Propanol Oxidation over Nanocrystalline Cobalt-Iron Spinel. Journal of Physical Chemistry C, 2022, 126, 10346-10358.	3.1	4
12	Introducing Stacking Faults into Three-Dimensional Branched Nickel Nanoparticles for Improved Catalytic Activity. Journal of the American Chemical Society, 2022, 144, 11094-11098.	13.7	27
13	Nickel nanoparticles supported on nitrogen-doped carbon nanotubes are a highly active, selective and stable CO ₂ methanation catalyst. Journal of Energy Chemistry, 2021, 54, 323-331.	12.9	46
14	Catalytic influence of mineral compounds on the reactivity of cellulose-derived char in O ₂ -, CO ₂ -, and H ₂ O-containing atmospheres. Fuel, 2021, 287, 119584.	6.4	7
15	Formic Acid-Assisted Selective Hydrogenolysis of 5-Hydroxymethylfurfural to 2,5-Dimethylfuran over Bifunctional Pd Nanoparticles Supported on N-Doped Mesoporous Carbon. Angewandte Chemie - International Edition, 2021, 60, 6807-6815.	13.8	65
16	Ameisensäure-unterstützte selektive Hydrogenolyse von 5-Hydroxymethylfurfural zu 2,5-Dimethylfuran über bifunktionale Pd-Nanopartikel auf N-dotiertem mesopörem Kohlenstoff als Träger. Angewandte Chemie, 2021, 133, 6882-6891.	2.0	13
17	The steady-state kinetics of CO hydrogenation to higher alcohols over a bulk Co-Cu catalyst. Journal of Catalysis, 2021, 394, 465-475.	6.2	10
18	Influence of the particle size on selective 2-propanol gas-phase oxidation over Co ₃ O ₄ nanospheres. Catalysis Science and Technology, 2021, 11, 7552-7562.	4.1	9

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19	Gd ³⁺ /Ru Nanoparticles Supported on Zr _{0.5} Ce _{0.5} O ₂ Nanorods for Dry Methane Reforming. ACS Applied Nano Materials, 2021, 4, 2547-2557.	5.0	13
20	Catalyst-enhanced plasma oxidation of n-butane over MnO ₂ in a temperature-controlled twin surface dielectric barrier discharge reactor. Plasma Processes and Polymers, 2021, 18, 2000127.	3.0	18
21	Photocatalytic Deacon Reaction over SrTiO ₃ . ChemPhotoChem, 2021, 5, 521-525.	3.0	2
22	Highly Efficient and Selective Aerobic Oxidation of Cinnamyl Alcohol under Visible Light over Pt-Loaded NaNbO ₃ Enriched with Oxygen Vacancies by Ni Doping. ACS Sustainable Chemistry and Engineering, 2021, 9, 5422-5429.	6.7	14
23	One-Step Synthesis of Core-Shell-Structured Mixed-Metal CPO ₂₇ (Cu,Co) and Investigations on Its Controlled Thermal Transformation. European Journal of Inorganic Chemistry, 2021, 2021, 2257-2261.	2.0	1
24	A Career in Catalysis: Robert Schlögl. ACS Catalysis, 2021, 11, 6243-6260.	11.2	2
25	Trace Metal Loading of Ni-Co-doped Graphitic Carbon for Active and Stable Bifunctional Oxygen Reduction and Oxygen Evolution Electrocatalysts. ChemElectroChem, 2021, 8, 1685-1693.	3.4	4
26	Identification of Active Sites in the Catalytic Oxidation of 2-Propanol over Co _{1+x} Fe _{2-x} O ₄ Spinel Oxides at Solid/Liquid and Solid/Gas Interfaces. ChemCatChem, 2021, 13, 2942-2951.	3.7	20
27	Electrocatalytic Oxidation of Glycerol Using Solid-State Synthesised Nickel Boride: Impact of Key Electrolysis Parameters on Product Selectivity. ChemElectroChem, 2021, 8, 2336-2342.	3.4	21
28	Synthesis of Cu Single Atoms Supported on Mesoporous Graphitic Carbon Nitride and Their Application in Liquid-Phase Aerobic Oxidation of Cyclohexene. ACS Catalysis, 2021, 11, 7863-7875.	11.2	56
29	Ceria-Based Materials for Thermocatalytic and Photocatalytic Organic Synthesis. ACS Catalysis, 2021, 11, 9618-9678.	11.2	146
30	Solvent Effects on Photocatalytic Anaerobic Oxidation of Benzyl Alcohol over Pt-Loaded Defective SrTiO ₃ Nanoparticles. ACS Applied Nano Materials, 2021, 4, 9254-9264.	5.0	13
31	Surface reactions during temperature-programmed desorption and reduction experiments with oxygen-functionalized carbon blacks. Applied Surface Science, 2021, 561, 150044.	6.1	12
32	Liquid-Phase Cyclohexene Oxidation with O ₂ over Spray-Flame-Synthesized La _{1-x} Sr _x CoO ₃ Perovskite Nanoparticles. Chemistry - A European Journal, 2021, 27, 16912-16923.	3.3	10
33	The Roles of Composition and Mesosstructure of Cobalt-Based Spinel Catalysts in Oxygen Evolution Reactions. Chemistry - A European Journal, 2021, 27, 17038-17048.	3.3	13
34	A Perspective on Heterogeneous Catalysts for the Selective Oxidation of Alcohols. Chemistry - A European Journal, 2021, 27, 16809-16833.	3.3	45
35	State-of-the-art progress in the selective photo-oxidation of alcohols. Journal of Energy Chemistry, 2021, 62, 338-350.	12.9	50
36	Steering accessible oxygen vacancies for alcohol oxidation over defective Nb ₂ O ₅ under visible light illumination. Applied Catalysis B: Environmental, 2021, 298, 120584.	20.2	30

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37	Optimizing the nickel boride layer thickness in a spectroelectrochemical ATR-FTIR thin-film flow cell applied in glycerol oxidation. Chinese Journal of Catalysis, 2021, 42, 2206-2215.	14.0	5
38	Morphology, microstructure, coordinative unsaturation, and hydrogenation activity of unsupported MoS ₂ : How idealized models fail to describe a real sulfide material. Applied Catalysis B: Environmental, 2020, 266, 118623.	20.2	10
39	On the reversible deactivation of cobalt ferrite spinel nanoparticles applied in selective 2-propanol oxidation. Journal of Catalysis, 2020, 382, 57-68.	6.2	31
40	Investigation of Synergistic Effects between Co and Fe in Co _{3-x} Fe _x O ₄ Spinel Catalysts for the Liquid-Phase Oxidation of Aromatic Alcohols and Styrene. Molecular Catalysis, 2020, 498, 111251.	2.0	13
41	<i>In situ</i> X-ray emission and high-resolution X-ray absorption spectroscopy applied to Ni-based bimetallic dry methane reforming catalysts. Nanoscale, 2020, 12, 15185-15192.	5.6	15
42	Identifying the nature of the active sites in methanol synthesis over Cu/ZnO/Al ₂ O ₃ catalysts. Nature Communications, 2020, 11, 3898.	12.8	109
43	Effect of Dipole Orientation in Mixed, Charge-Equilibrating Self-assembled Monolayers on Protein Adsorption and Marine Biofouling. ACS Applied Materials & Interfaces, 2020, 12, 50953-50961.	8.0	11
44	Influence of Contaminants in Steel Mill Exhaust Gases on Cu/ZnO/Al ₂ O ₃ Catalysts Applied in Methanol Synthesis. Chemie-Ingenieur-Technik, 2020, 92, 1525-1532.	0.8	16
45	Fundamental Properties and Applications of Dielectric Barrier Discharges in Plasma-Catalytic Processes at Atmospheric Pressure. Chemie-Ingenieur-Technik, 2020, 92, 1542-1558.	0.8	36
46	Origin of Laser-Induced Colloidal Gold Surface Oxidation and Charge Density, and Its Role in Oxidation Catalysis. Journal of Physical Chemistry C, 2020, 124, 20981-20990.	3.1	13
47	Anchoring of palladium nanoparticles on N-doped mesoporous carbon. Physical Chemistry Chemical Physics, 2020, 22, 21317-21325.	2.8	13
48	In Situ X-ray Microscopy Reveals Particle Dynamics in a NiCo Dry Methane Reforming Catalyst under Operating Conditions. ACS Catalysis, 2020, 10, 6223-6230.	11.2	30
49	Influence of Mineral Composition of Chars Derived by Hydrothermal Carbonization on Sorption Behavior of CO ₂ , CH ₄ , and O ₂ . ACS Omega, 2020, 5, 10704-10714.	3.5	10
50	Facettierte verzweigte Nickel-Nanopartikel mit variierbarer Verzweigungslänge für die hochaktive elektrokatalytische Oxidation von Biomasse. Angewandte Chemie, 2020, 132, 15615-15620.	2.0	18
51	CO ₂ Hydrogenation with Cu/ZnO/Al ₂ O ₃ : A Benchmark Study. ChemCatChem, 2020, 12, 3216-3222.	3.7	45
52	Selective cyclohexene oxidation with O ₂ , H ₂ O ₂ and <i>tert</i> -butyl hydroperoxide over spray-flame synthesized LaCo _{1-x} Fe _x O ₃ nanoparticles. Catalysis Science and Technology, 2020, 10, 5196-5206.	4.1	28
53	Synergistic Effect of Molybdenum and Tungsten in Highly Mixed Carbide Nanoparticles as Effective Catalysts in the Hydrogen Evolution Reaction under Alkaline and Acidic Conditions. ChemElectroChem, 2020, 7, 983-988.	3.4	13
54	Model-Based Analysis of the Photocatalytic HCl Oxidation Kinetics over TiO ₂ . Industrial & Engineering Chemistry Research, 2020, 59, 4265-4272.	3.7	7

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55	Structural evolution of bimetallic Co-Cu catalysts in CO hydrogenation to higher alcohols at high pressure. <i>Journal of Catalysis</i> , 2020, 383, 33-41.	6.2	41
56	Eine universelle, auf Nanokapillaren basierende Methode zur Katalysatorimmobilisierung für die Flüssigzell-Transmissionselektronenmikroskopie. <i>Angewandte Chemie</i> , 2020, 132, 5634-5638.	2.0	1
57	A Universal Nano-capillary Based Method of Catalyst Immobilization for Liquid-Cell Transmission Electron Microscopy. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5586-5590.	13.8	19
58	Nanocrystalline Ga-Zn Oxynitride Materials: Minimized Defect Density for Improved Photocatalytic Activity?. <i>Zeitschrift Fur Physikalische Chemie</i> , 2020, 234, 1133-1153.	2.8	5
59	Thermal treatment of lignin, cellulose and hemicellulose in nitrogen and carbon dioxide. <i>Fuel</i> , 2020, 271, 117656.	6.4	51
60	Faceted Branched Nickel Nanoparticles with Tunable Branch Length for High-Activity Electrocatalytic Oxidation of Biomass. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15487-15491.	13.8	83
61	Simultaneous analysis of light gases and heavy pyrolyzates evolved from lignite and hard coal by pyrolysis-GC/MS-GC/TCD. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 149, 104833.	5.5	4
62	Conversion of volatile organic compounds in a twin surface dielectric barrier discharge. <i>Plasma Sources Science and Technology</i> , 2020, 29, 114003.	3.1	20
63	Role of Boron and Phosphorus in Enhanced Electrocatalytic Oxygen Evolution by Nickel Borides and Nickel Phosphides. <i>ChemElectroChem</i> , 2019, 6, 235-240.	3.4	62
64	Highly Selective Anaerobic Oxidation of Alcohols Over Fe-doped SrTiO ₃ Under Visible Light. <i>ChemCatChem</i> , 2019, 11, 5139-5144.	3.7	31
65	Towards Mechanistic Understanding of Liquid-Phase Cinnamyl Alcohol Oxidation with tert-Butyl Hydroperoxide over Noble-Metal-Free LaCo _{1-x} Fe _x O ₃ Perovskites. <i>ChemPlusChem</i> , 2019, 84, 1155-1163.	2.8	29
66	Perspective of Surfactant-Free Colloidal Nanoparticles in Heterogeneous Catalysis. <i>ChemCatChem</i> , 2019, 11, 4489-4518.	3.7	112
67	Operando Thin-Layer ATR-FTIR Spectroelectrochemical Radial Flow Cell with Tilt Correction and Borehole Electrode. <i>Analytical Chemistry</i> , 2019, 91, 14323-14331.	6.5	11
68	On the role of cobalt carbidization in higher alcohol synthesis over hydrotalcite-based Co-Cu catalysts. <i>Chinese Journal of Catalysis</i> , 2019, 40, 1731-1740.	14.0	11
69	Catalytic Carbon Monoxide Oxidation over Potassium-Doped Manganese Dioxide Nanoparticles Synthesized by Spray Drying. <i>Emission Control Science and Technology</i> , 2019, 5, 378-391.	1.5	6
70	Catalytic effect of iron phases on the oxidation of cellulose-derived synthetic char. <i>Energy Procedia</i> , 2019, 158, 694-699.	1.8	4
71	Enhancing the water splitting performance of cryptomelane-type δ -(K)MnO ₂ . <i>Journal of Catalysis</i> , 2019, 374, 335-344.	6.2	27
72	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

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73	Ni-Metalloid (B, Si, P, As, and Te) Alloys as Water Oxidation Electrocatalysts. <i>Advanced Energy Materials</i> , 2019, 9, 1900796.	19.5	93
74	Selective 2-Propanol Oxidation over Unsupported Co ₃ O ₄ Spinel Nanoparticles: Mechanistic Insights into Aerobic Oxidation of Alcohols. <i>ACS Catalysis</i> , 2019, 9, 5974-5985.	11.2	61
75	Seleno-analogues of pentlandites (Fe _{4.5} Ni _{4.5} S ₈ YSe _Y), <i>Tj ETQq1 1 0.784314 rg</i> 2019, 55, 8792-8795.	4.1	28
76	Sauerstoffevolutionselektrokatalyse eines einzelnen MOF-basierten Kompositnanopartikels an der Spitze einer Nanoelektrode. <i>Angewandte Chemie</i> , 2019, 131, 9021-9026.	2.0	17
77	Photocatalytic Oxidation of C-H Bonds in Unsaturated Hydrocarbons through a Radical Pathway Induced by a Molecular Cocatalyst. <i>ChemSusChem</i> , 2019, 12, 2795-2801.	6.8	37
78	Anaerobic Alcohol Conversion to Carbonyl Compounds over Nanoscaled Rh-Doped SrTiO ₃ under Visible Light. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2075-2080.	4.6	30
79	Oxygen Evolution Electrocatalysis of a Single MOF-Derived Composite Nanoparticle on the Tip of a Nanoelectrode. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8927-8931.	13.8	91
80	Cl ₂ Production by Photocatalytic Oxidation of HCl over TiO ₂ . <i>ChemSusChem</i> , 2019, 12, 2725-2731.	6.8	13
81	The kinetics of glycerol hydrodeoxygenation to 1,2-propanediol over Cu/ZrO ₂ in the aqueous phase. <i>Applied Catalysis A: General</i> , 2019, 576, 47-53.	4.3	28
82	Tuning the Properties of Iron-Doped Porous Graphitic Carbon Synthesized by Hydrothermal Carbonization of Cellulose and Subsequent Pyrolysis. <i>ACS Omega</i> , 2019, 4, 4448-4460.	3.5	40
83	Photocatalytic one-step synthesis of Ag nanoparticles without reducing agent and their catalytic redox performance supported on carbon. <i>Journal of Energy Chemistry</i> , 2019, 36, 37-46.	12.9	9
84	Spray-Flame-Synthesized LaCo _{1-x} Fe _x O ₃ Perovskite Nanoparticles as Electrocatalysts for Water and Ethanol Oxidation. <i>ChemElectroChem</i> , 2019, 6, 4266-4274.	3.4	28
85	Preface to Special Issue. <i>Emission Control Science and Technology</i> , 2019, 5, 289-289.	1.5	0
86	High temperature pyrolysis of lignite and synthetic carbons. <i>Fuel</i> , 2019, 241, 264-272.	6.4	8
87	Assessment of combustion rates of coal chars for oxy-combustion applications. <i>Fuel</i> , 2019, 238, 173-185.	6.4	28
88	Nitrogen-Doped Metal-Free Carbon Materials Derived from Cellulose as Electrocatalysts for the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2019, 6, 514-521.	3.4	31
89	MOFs for Electrocatalysis: From Serendipity to Design Strategies. <i>Small Methods</i> , 2019, 3, 1800415.	8.6	100
90	Proof of Equivalent Catalytic Functionality upon Photon-Induced and Thermal Activation of Supported Isolated Vanadia Species in Methanol Oxidation. <i>ChemCatChem</i> , 2018, 10, 2360-2364.	3.7	12

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91	Bifunctional Oxygen Reduction/Oxygen Evolution Activity of Mixed Fe/Co Oxide Nanoparticles with Variable Fe/Co Ratios Supported on Multiwalled Carbon Nanotubes. <i>ChemSusChem</i> , 2018, 11, 1204-1214.	6.8	49
92	Katalyse der Kohlenstoffdioxid-Photoreduktion an Nanoschichten: Grundlagen und Herausforderungen. <i>Angewandte Chemie</i> , 2018, 130, 7734-7752.	2.0	27
93	Influence of the Fe:Ni Ratio and Reaction Temperature on the Efficiency of (Fe _x Ni _{1-x}) ₉ S ₈ Electrocatalysts Applied in the Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2018, 8, 987-996.	11.2	134
94	The Role of Metallic Copper in the Selective Hydrodeoxygenation of Glycerol to 1,2-Propanediol over Cu/ZrO ₂ . <i>ChemCatChem</i> , 2018, 10, 1344-1350.	3.7	17
95	Catalysis of Carbon Dioxide Photoreduction on Nanosheets: Fundamentals and Challenges. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7610-7627.	13.8	361
96	The effect of the thermal pretreatment on the performance of ZnO/Cr ₂ O ₃ catalysts applied in high-temperature methanol synthesis. <i>Molecular Catalysis</i> , 2018, 451, 76-86.	2.0	13
97	Atomic-Scale Explanation of O ₂ Activation at the Au-TiO ₂ Interface. <i>Journal of the American Chemical Society</i> , 2018, 140, 18082-18092.	13.7	69
98	Optimizing the Synthesis of Zinc-Rich Gallium Zinc Oxynitrides by Combining Co-Precipitation and Moisture-Assisted Nitridation. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2018, 644, 1686-1690.	1.2	2
99	Investigation of Carbon Nanofiber-Supported Electrocatalysts with Ultra-Low Platinum Loading for the Use in PEM Fuel Cells. <i>Fuel Cells</i> , 2018, 18, 586-593.	2.4	6
100	Methanol Synthesis from Steel Mill Exhaust Gases: Challenges for the Industrial Cu/ZnO/Al ₂ O ₃ Catalyst. <i>Chemie-Ingenieur-Technik</i> , 2018, 90, 1419-1429.	0.8	56
101	Pyrolysis and Thermal Annealing of Coal and Biomass in CO ₂ -Rich Atmospheres. <i>Energy & Fuels</i> , 2018, 32, 10701-10708.	5.1	25
102	Oxidative Deposition of Manganese Oxide Nanosheets on Nitrogen-Functionalized Carbon Nanotubes Applied in the Alkaline Oxygen Evolution Reaction. <i>ACS Omega</i> , 2018, 3, 11216-11226.	3.5	31
103	Local dynamics of copper active sites in zeolite catalysts for selective catalytic reduction of NO _x with NH ₃ . <i>Applied Catalysis B: Environmental</i> , 2018, 237, 263-272.	20.2	35
104	Three-way catalysis with supported gold catalysts: Poisoning effects of hydrocarbons. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 1021-1032.	20.2	8
105	Dry Reforming of Methane at High Pressure in a Fixed-Bed Reactor with Axial Temperature Profile Determination. <i>Catalysis Letters</i> , 2018, 148, 2256-2262.	2.6	22
106	On the nature of spillover hydrogen species on platinum/nitrogen-doped mesoporous carbon composites: A temperature-programmed nitrobenzene desorption study. <i>Journal of Catalysis</i> , 2018, 365, 55-62.	6.2	35
107	Spectroelectrochemical studies on the effect of cations in the alkaline glycerol oxidation reaction over carbon nanotube-supported Pd nanoparticles. <i>Beilstein Journal of Organic Chemistry</i> , 2018, 14, 1428-1435.	2.2	10
108	Experimental confirmation of a new invariant for a non-linear chemical reaction. <i>Chemical Engineering Science</i> , 2018, 191, 262-267.	3.8	15

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109	Electrocatalytic Oxidation of 5-(Hydroxymethyl)furfural Using High-Surface-Area Nickel Boride. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11460-11464.	13.8	283
110	Photocatalytic Methanol Oxidation by Supported Vanadium Oxide Species: Influence of Support and Degree of Oligomerization. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 3725-3735.	2.0	12
111	Elektrokatalytische Oxidation von 5-(Hydroxymethyl)furfural an Nickelborid mit großer Oberfläche. <i>Angewandte Chemie</i> , 2018, 130, 11631-11636.	2.0	50
112	Recent Developments in the Conversion of Synthesis Gas to Short-Chain Alcohols over Cu-Co-Based Catalysts. <i>Chemie-Ingenieur-Technik</i> , 2018, 90, 1465-1475.	0.8	11
113	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
114	Highly Efficient Photocatalytic Degradation of Dyes by a Copper-Triazolate Metal-Organic Framework. <i>Chemistry - A European Journal</i> , 2018, 24, 16804-16813.	3.3	81
115	Proof of Equivalent Catalytic Functionality upon Photon-Induced and Thermal Activation of Supported Isolated Vanadia Species in Methanol Oxidation. <i>ChemCatChem</i> , 2018, 10, 2325-2325.	3.7	0
116	Emissivity Comparison between Chars and Demineralized Coal Chars under Oxycombustion Conditions. <i>Chemical Engineering and Technology</i> , 2018, 41, 1490-1496.	1.5	3
117	On the alternating physicochemical characteristics of Colombian coal during pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 123, 12-19.	5.5	11
118	German Catalysis Society (GeCatS). <i>ChemCatChem</i> , 2017, 9, 525-526.	3.7	0
119	NH ₃ Post-Treatment Induces High Activity of Co-Based Electrocatalysts Supported on Carbon Nanotubes for the Oxygen Evolution Reaction. <i>ChemElectroChem</i> , 2017, 4, 2091-2098.	3.4	7
120	Ultrathin High Surface Area Nickel Boride (Ni _x B) Nanosheets as Highly Efficient Electrocatalyst for Oxygen Evolution. <i>Advanced Energy Materials</i> , 2017, 7, 1700381.	19.5	348
121	Synergistic effect of potassium hydroxide and steam co-treatment on the functionalization of carbon nanotubes applied as basic support in the Pd-catalyzed liquid-phase oxidation of ethanol. <i>Carbon</i> , 2017, 121, 452-462.	10.3	7
122	On the bifunctional nature of Cu/ZrO ₂ catalysts applied in the hydrogenation of ethyl acetate. <i>Journal of Catalysis</i> , 2017, 352, 120-129.	6.2	29
123	MOF-Templated Assembly Approach for Fe ₃ C Nanoparticles Encapsulated in Bamboo-Like N-Doped CNTs: Highly Efficient Oxygen Reduction under Acidic and Basic Conditions. <i>Chemistry - A European Journal</i> , 2017, 23, 12125-12130.	3.3	64
124	Micrometer-Precise Determination of the Thin Electrolyte Layer of a Spectroelectrochemical Cell by Microelectrode Approach Curves. <i>Analytical Chemistry</i> , 2017, 89, 4367-4372.	6.5	8
125	Encapsulation of Bimetallic Metal Nanoparticles into Robust Zirconium-Based Metal-Organic Frameworks: Evaluation of the Catalytic Potential for Size-Selective Hydrogenation. <i>Chemistry - A European Journal</i> , 2017, 23, 3583-3594.	3.3	31
126	Impact of Synthesis Parameters on the Formation of Defects in HKUST-1. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 925-931.	2.0	38

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127	Solid Electrolyte Interphase (SEI) at TiO ₂ Electrodes in Li-Ion Batteries: Defining <i>Apparent</i> and <i>Effective</i> SEI Based on Evidence from X-ray Photoemission Spectroscopy and Scanning Electrochemical Microscopy. ACS Applied Materials & Interfaces, 2017, 9, 3123-3130.	8.0	52
128	Experimental and Theoretical Understanding of Nitrogen-Doping-Induced Strong Metal-Support Interactions in Pd/TiO ₂ Catalysts for Nitrobenzene Hydrogenation. ACS Catalysis, 2017, 7, 1197-1206.	11.2	138
129	Spinel-Structured ZnCr ₂ O ₄ with Excess Zn Is the Active ZnO/Cr ₂ O ₃ Catalyst for High-Temperature Methanol Synthesis. ACS Catalysis, 2017, 7, 7610-7622.	11.2	109
130	Perovskites as Precursors for Ni/La ₂ O ₃ Catalysts in the Dry Reforming of Methane: Synthesis by Constant pH Co-Precipitation, Reduction Mechanism and Effect of Ru-Doping. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 1088-1095.	1.2	16
131	Probing Oxide Reduction and Phase Transformations at the Au-TiO ₂ Interface by Vibrational Spectroscopy. Topics in Catalysis, 2017, 60, 1744-1753.	2.8	13
132	Cobalt boride modified with N-doped carbon nanotubes as a high-performance bifunctional oxygen electrocatalyst. Journal of Materials Chemistry A, 2017, 5, 21122-21129.	10.3	73
133	Decoupling the Effects of High Crystallinity and Surface Area on the Photocatalytic Overall Water Splitting over Ga_2O_3 Nanoparticles by Chemical Vapor Synthesis. ChemSusChem, 2017, 10, 4190-4197.	6.8	15
134	Frontispiece: Topotactic Synthesis of Porous Cobalt Ferrite Platelets from a Layered Double Hydroxide Precursor and Their Application in Oxidation Catalysis. Chemistry - A European Journal, 2017, 23, .	3.3	0
135	Oxidative photo-deposition of chromia: tuning the activity for overall water splitting of the Rh/CrO _x co-catalyst system. Journal of Materials Chemistry A, 2017, 5, 17248-17252.	10.3	14
136	Catalytic Oxidation of Soot Spray-Coated Lithium Zirconate in a Plate Reactor. Chemie-Ingenieur-Technik, 2017, 89, 263-269.	0.8	1
137	Effects of Potassium and Manganese Promoters on Nitrogen-Doped Carbon Nanotube-Supported Iron Catalysts for CO ₂ Hydrogenation. Engineering, 2017, 3, 385-392.	6.7	46
138	Effect of titania surface modification of mesoporous silica SBA-15 supported Au catalysts: Activity and stability in the CO oxidation reaction. Journal of Catalysis, 2017, 356, 214-228.	6.2	21
139	Topotactic Synthesis of Porous Cobalt Ferrite Platelets from a Layered Double Hydroxide Precursor and Their Application in Oxidation Catalysis. Chemistry - A European Journal, 2017, 23, 12443-12449.	3.3	28
140	Tuning the oxidation state of manganese oxide nanoparticles on oxygen- and nitrogen-functionalized carbon nanotubes for the electrocatalytic oxygen evolution reaction. Physical Chemistry Chemical Physics, 2017, 19, 18434-18442.	2.8	34
141	Synergistic Effect of Cobalt and Iron in Layered Double Hydroxide Catalysts for the Oxygen Evolution Reaction. ChemSusChem, 2017, 10, 156-165.	6.8	117
142	Metallic NiPS ₃ @NiOOH Core-Shell Heterostructures as Highly Efficient and Stable Electrocatalyst for the Oxygen Evolution Reaction. ACS Catalysis, 2017, 7, 229-237.	11.2	233
143	Metal-Organic Framework Derived Carbon Nanotube Grafted Cobalt/Carbon Polyhedra Grown on Nickel Foam: An Efficient 3D Electrode for Full Water Splitting. ChemElectroChem, 2017, 4, 188-193.	3.4	43
144	The influence of iron oxide on the oxidation kinetics of synthetic char derived from thermogravimetric analysis and fixed-bed experiments under isothermal and temperature-programmed conditions. Fuel, 2017, 201, 99-104.	6.4	11

#	ARTICLE	IF	CITATIONS
145	Palladium Nanoparticles Supported on Nitrogen-Doped Carbon Nanotubes as a Release-and-Catch Catalytic System in Aerobic Liquid-Phase Ethanol Oxidation. <i>ChemCatChem</i> , 2016, 8, 1269-1273.	3.7	14
146	Hollow Zn/Co Zeolitic Imidazolate Framework (ZIF) and Yolk-Shell Metal@Zn/Co ZIF Nanostructures. <i>Chemistry - A European Journal</i> , 2016, 22, 3304-3311.	3.3	102
147	Frontispiece: Hollow Zn/Co Zeolitic Imidazolate Framework (ZIF) and Yolk-Shell Metal@Zn/Co ZIF Nanostructures. <i>Chemistry - A European Journal</i> , 2016, 22, .	3.3	0
148	Bifunktionale Sauerstoffelektroden durch Einbettung von Co ₃ O ₄ -Nanopartikeln in CNT-gekoppelte Stickstoff-dotierte Kohlenstoffpolyeder. <i>Angewandte Chemie</i> , 2016, 128, 4155-4160.	2.0	85
149	Co ₃ O ₄ Encapsulated in Carbon Nanotube-Grafted Nitrogen-Doped Carbon Polyhedra as an Advanced Bifunctional Oxygen Electrode. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4087-4091.	13.8	1,027
150	Oxidation characteristics of a cellulose-derived hydrochar in thermogravimetric and laminar flow burner experiments. <i>Fuel Processing Technology</i> , 2016, 148, 85-90.	7.2	12
151	Product distribution of CO ₂ hydrogenation by K- and Mn-promoted Fe catalysts supported on N-functionalized carbon nanotubes. <i>Catalysis Today</i> , 2016, 275, 59-65.	4.4	62
152	Perovskite-based bifunctional electrocatalysts for oxygen evolution and oxygen reduction in alkaline electrolytes. <i>Electrochimica Acta</i> , 2016, 208, 25-32.	5.2	73
153	The Temperature-Programmed Desorption of H ₂ from Cu/ZrO ₂ . <i>Catalysis Letters</i> , 2016, 146, 1011-1017.	2.6	12
154	The effect of Cu and Fe cations on NH ₃ -supported proton transport in DeNO _x -SCR zeolite catalysts. <i>Catalysis Science and Technology</i> , 2016, 6, 3362-3366.	4.1	32
155	Demonstrating the steady performance of iron oxide composites over 2000 cycles at fast charge-rates for Li-ion batteries. <i>Chemical Communications</i> , 2016, 52, 7348-7351.	4.1	17
156	MoSe ₂ @reduced graphene oxide nanocomposite heterostructures as efficient and stable electrocatalysts for the hydrogen evolution reaction. <i>Nano Energy</i> , 2016, 29, 46-53.	16.0	94
157	Formation and Effect of NH ₄ ⁺ Intermediates in NH ₃ -SCR over Fe-ZSM-5 Zeolite Catalysts. <i>ACS Catalysis</i> , 2016, 6, 7696-7700.	11.2	68
158	High-Temperature Stable Ni Nanoparticles for the Dry Reforming of Methane. <i>ACS Catalysis</i> , 2016, 6, 7238-7248.	11.2	116
159	Surface Structure and Photocatalytic Properties of Bi ₂ WO ₆ Nanoplatelets Modified by Molybdena Islands from Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , 2016, 120, 18191-18200.	3.1	27
160	Simultaneous introduction of various palladium active sites into MOF via one-pot synthesis: Pd@[Cu ₃ xPd _x](BTC) ₂ . <i>Dalton Transactions</i> , 2016, 45, 14883-14887.	3.3	31
161	Ruthenium Metal-Organic Frameworks with Different Defect Types: Influence on Porosity, Sorption, and Catalytic Properties. <i>Chemistry - A European Journal</i> , 2016, 22, 14297-14307.	3.3	72
162	Mo _x /C/CNT Composites as Active Electrocatalysts for the Hydrogen Evolution Reaction under Alkaline Conditions. <i>Electroanalysis</i> , 2016, 28, 2293-2296.	2.9	10

#	ARTICLE	IF	CITATIONS
163	Development of carbon fibre reinforced plastic (CFRP) crash absorbers with stable crushing behaviour considering the connection to the bumper system. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2016, 47, 1099-1108.	0.9	3
164	CO Hydrogenation to Higher Alcohols over Cu-Co-Based Catalysts Derived from Hydrotalcite-Type Precursors. <i>Topics in Catalysis</i> , 2016, 59, 1361-1370.	2.8	15
165	Controlling the Photocorrosion of Zinc Sulfide Nanoparticles in Water by Doping with Chloride and Cobalt Ions. <i>Langmuir</i> , 2016, 32, 12641-12649.	3.5	32
166	Dispersibility of vapor phase oxygen and nitrogen functionalized multi-walled carbon nanotubes in various organic solvents. <i>Scientific Reports</i> , 2016, 6, 26208.	3.3	23
167	Pentlandite rocks as sustainable and stable efficient electrocatalysts for hydrogen generation. <i>Nature Communications</i> , 2016, 7, 12269.	12.8	150
168	Amorphous Cobalt Boride (Co ₂ B) as a Highly Efficient Nonprecious Catalyst for Electrochemical Water Splitting: Oxygen and Hydrogen Evolution. <i>Advanced Energy Materials</i> , 2016, 6, 1502313.	19.5	686
169	Effects of oxy-fuel conditions on the products of pyrolysis in a drop tube reactor. <i>Fuel Processing Technology</i> , 2016, 150, 41-49.	7.2	72
170	Quantitative screening of an extended oxidative coupling of methane catalyst library. <i>Applied Catalysis B: Environmental</i> , 2016, 199, 252-259.	20.2	50
171	The effect of sodium on the structure-activity relationships of cobalt-modified Cu/ZnO/Al ₂ O ₃ catalysts applied in the hydrogenation of carbon monoxide to higher alcohols. <i>Journal of Catalysis</i> , 2016, 335, 175-186.	6.2	90
172	Synthesis and characterization of lignite-like fuels obtained by hydrothermal carbonization of cellulose. <i>Fuel</i> , 2016, 171, 54-58.	6.4	55
173	Pd deposited on functionalized carbon nanotubes for the electrooxidation of ethanol in alkaline media. <i>Electrochemistry Communications</i> , 2016, 63, 30-33.	4.7	23
174	Promoting effect of nitrogen doping on carbon nanotube-supported RuO ₂ applied in the electrocatalytic oxygen evolution reaction. <i>Journal of Energy Chemistry</i> , 2016, 25, 282-288.	12.9	38
175	A Simple Approach towards High-Performance Perovskite-Based Bifunctional Oxygen Electrocatalysts. <i>ChemElectroChem</i> , 2016, 3, 138-143.	3.4	37
176	Cr ₂ O ₃ Nanoparticles on Ba ₅ Ta ₄ O ₁₅ as a Noble-Metal-Free Oxygen Evolution Co-Catalyst for Photocatalytic Overall Water Splitting. <i>ChemCatChem</i> , 2016, 8, 153-156.	3.7	34
177	On the role of the stability of functional groups in multi-walled carbon nanotubes applied as support in iron-based high-temperature Fischer-Tropsch synthesis. <i>Catalysis Today</i> , 2016, 270, 85-92.	4.4	39
178	Co ₃ O ₄ -MnO ₂ -CNT Hybrids Synthesized by HNO ₃ Vapor Oxidation of Catalytically Grown CNTs as OER Electrocatalysts. <i>ChemCatChem</i> , 2015, 7, 3027-3035.	3.7	38
179	One-Pot Synthesis of Carbon-Coated Nanostructured Iron Oxide on Few-Layer Graphene for Lithium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2015, 21, 16154-16161.	3.3	12
180	On the Role of Metals in Nitrogen-Doped Carbon Electrocatalysts for Oxygen Reduction. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10102-10120.	13.8	583

#	ARTICLE	IF	CITATIONS
181	On the role of gold nanoparticles in the selective photooxidation of 2-propanol over Au/TiO ₂ . <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 10391-10397.	2.8	22
182	High-quality functionalized few-layer graphene: facile fabrication and doping with nitrogen as a metal-free catalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15444-15450.	10.3	53
183	CNT-TiO ₂ Composites for Improved Co-Catalyst Dispersion and Stabilized Photocatalytic Hydrogen Production. <i>Catalysts</i> , 2015, 5, 270-285.	3.5	18
184	The Interaction of Formic Acid with Zinc Oxide: A Combined Experimental and Theoretical Study on Single Crystal and Powder Samples. <i>Topics in Catalysis</i> , 2015, 58, 174-183.	2.8	32
185	Editorial of the PCCP themed issue on "Solvation Science". <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8295-8296.	2.8	12
186	Structure-activity relationships of Co-modified Cu/ZnO/Al ₂ O ₃ catalysts applied in the synthesis of higher alcohols from synthesis gas. <i>Applied Catalysis A: General</i> , 2015, 505, 326-333.	4.3	33
187	Fast and Reproducible Testing of Cu-Co-Based Catalysts Applied in the Conversion of Synthesis Gas to Ethanol and Higher Alcohols. <i>Catalysis Letters</i> , 2015, 145, 1374-1381.	2.6	8
188	Metal-support interactions in surface-modified Cu-Co catalysts applied in higher alcohol synthesis. <i>Catalysis Science and Technology</i> , 2015, 5, 3603-3612.	4.1	33
189	Cocatalyst Designing: A Regenerable Molybdenum-Containing Ternary Cocatalyst System for Efficient Photocatalytic Water Splitting. <i>ACS Catalysis</i> , 2015, 5, 5530-5539.	11.2	40
190	The effect of the Au loading on the liquid-phase aerobic oxidation of ethanol over Au/TiO ₂ catalysts prepared by pulsed laser ablation. <i>Journal of Catalysis</i> , 2015, 330, 497-506.	6.2	56
191	A reevaluation of the correlation between the synthesis parameters and structure and properties of nitrogen-doped carbon nanotubes. <i>Journal of Energy Chemistry</i> , 2015, 24, 407-415.	12.9	14
192	New insight into calcium tantalate nanocomposite photocatalysts for overall water splitting and reforming of alcohols and biomass derivatives. <i>APL Materials</i> , 2015, 3, 104412.	5.1	8
193	Nitrogen-doped carbon cloth as a stable self-supported cathode catalyst for air/H ₂ -breathing alkaline fuel cells. <i>Electrochimica Acta</i> , 2015, 182, 312-319.	5.2	10
194	Efficient Deposition of Semiconductor Powders for Photoelectrocatalysis by Airbrush Spraying. <i>Electroanalysis</i> , 2015, 27, 285-292.	2.9	11
195	Redox dynamics of Ni catalysts in CO ₂ reforming of methane. <i>Catalysis Today</i> , 2015, 242, 101-110.	4.4	39
196	Oxygen-Plasma-Functionalized Carbon Nanotubes as Supports for Platinum-Ruthenium Catalysts Applied in Electrochemical Methanol Oxidation. <i>ChemPlusChem</i> , 2015, 80, 130-135.	2.8	16
197	Catalytic Behaviour of Mesoporous Cobalt-Aluminum Oxides for CO Oxidation. <i>Journal of Catalysis</i> , 2014, 2014, 1-9.	0.5	2
198	Stable Performance of Ni Catalysts in the Dry Reforming of Methane at High Temperatures for the Efficient Conversion of CO ₂ into Syngas. <i>ChemCatChem</i> , 2014, 6, 100-104.	3.7	91

#	ARTICLE	IF	CITATIONS
199	New Insights into SEI Formation in Lithium Ion Batteries: Inhomogeneous Distribution of Irreversible Charge Losses Across Graphite Electrodes. <i>ECS Transactions</i> , 2014, 62, 265-271.	0.5	2
200	How Different Characterization Techniques Elucidate the Nature of the Gold Species in a Polycrystalline Au/TiO ₂ Catalyst. <i>Chemie-Ingenieur-Technik</i> , 2014, 86, 1883-1889.	0.8	2
201	Rücktitelbild: Eine Stickstoff-dotierte Kohlenstoffmatrix mit eingeschlossenen Mn _x O _y /NC- und Co _x O _y /NC-Nanopartikeln für leistungsfähige bifunktionale Sauerstoffelektroden (<i>Angew. Chem.</i>) TJ ETQq1 1 0.784314 rgBT /Overlo		
202	Photodeposition of Copper and Chromia on Gallium Oxide: The Role of Co Catalysts in Photocatalytic Water Splitting. <i>ChemSusChem</i> , 2014, 7, 1030-1034.	6.8	40
203	Mn _x O _y /NC and Co _x O _y /NC Nanoparticles Embedded in a Nitrogen-Doped Carbon Matrix for High-Performance Bifunctional Oxygen Electrodes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8508-8512.	13.8	482
204	Oxidative coupling of methane: catalytic behaviour assessment via comprehensive microkinetic modelling. <i>Applied Catalysis B: Environmental</i> , 2014, 150-151, 496-505.	20.2	63
205	The influence of kinetics, mass transfer and catalyst deactivation on the growth rate of multiwalled carbon nanotubes from ethene on a cobalt-based catalyst. <i>Chemical Engineering Journal</i> , 2014, 244, 68-74.	12.7	20
206	Metal-free catalysts for oxygen reduction in alkaline electrolytes: Influence of the presence of Co, Fe, Mn and Ni inclusions. <i>Electrochimica Acta</i> , 2014, 128, 271-278.	5.2	129
207	Hollow and Yolk-Shell Iron Oxide Nanostructures on Few-Layer Graphene in Li-Ion Batteries. <i>Chemistry - A European Journal</i> , 2014, 20, 2022-2030.	3.3	37
208	Multifunctional, Defect-Engineered Metal-Organic Frameworks with Ruthenium Centers: Sorption and Catalytic Properties. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7058-7062.	13.8	237
209	Surface-Modified TiO ₂ Photocatalysts Prepared by a Photosynthetic Route: Mechanism, Enhancement, and Limits. <i>ChemPlusChem</i> , 2014, 79, 163-170.	2.8	16
210	Enhanced photocatalytic degradation rates at rutile TiO ₂ photocatalysts modified with redox co-catalysts. <i>Catalysis Today</i> , 2014, 230, 97-103.	4.4	28
211	Immobilization of Proteins in their Physiological Active State at Functionalized Thiol Monolayers on ATR-Ge Germanium Crystals. <i>ChemBioChem</i> , 2014, 15, 2529-2534.	2.6	16
212	The role of carbonaceous deposits in the activity and stability of Ni-based catalysts applied in the dry reforming of methane. <i>Catalysis Science and Technology</i> , 2014, 4, 3317-3328.	4.1	78
213	A carbon-coated TiO ₂ (B) nanosheet composite for lithium ion batteries. <i>Chemical Communications</i> , 2014, 50, 5506.	4.1	45
214	Low temperature Hydrogen Reduction of High Surface Area Anatase and Anatase/TiO ₂ for High-Charging-Rate Batteries. <i>ChemSusChem</i> , 2014, 7, 2584-2589.	6.8	24
215	High-Concentration Graphene Dispersions with Minimal Stabilizer: A Scaffold for Enzyme Immobilization for Glucose Oxidation. <i>Chemistry - A European Journal</i> , 2014, 20, 5752-5761.	3.3	43
216	Gas-phase oxidation of ethanol over Au/TiO ₂ catalysts to probe metal-support interactions. <i>Catalysis Science and Technology</i> , 2014, 4, 3495-3504.	4.1	34

#	ARTICLE	IF	CITATIONS
217	CO ₂ hydrogenation to hydrocarbons over iron nanoparticles supported on oxygen-functionalized carbon nanotubes. <i>Journal of Chemical Sciences</i> , 2014, 126, 481-486.	1.5	14
218	Counting of Oxygen Defects versus Metal Surface Sites in Methanol Synthesis Catalysts by Different Probe Molecules. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7043-7047.	13.8	119
219	Amine-based solvents for exfoliating graphite to graphene outperform the dispersing capacity of N-methyl-pyrrolidone and surfactants. <i>Chemical Communications</i> , 2014, 50, 10382-10385.	4.1	35
220	Spinel Mn-Co Oxide in N-Doped Carbon Nanotubes as a Bifunctional Electrocatalyst Synthesized by Oxidative Cutting. <i>Journal of the American Chemical Society</i> , 2014, 136, 7551-7554.	13.7	275
221	Reliable benchmark material for anatase TiO ₂ in Li-ion batteries: On the role of dehydration of commercial TiO ₂ . <i>Journal of Power Sources</i> , 2014, 266, 155-161.	7.8	24
222	Structural Complexity in Metal-Organic Frameworks: Simultaneous Modification of Open Metal Sites and Hierarchical Porosity by Systematic Doping with Defective Linkers. <i>Journal of the American Chemical Society</i> , 2014, 136, 9627-9636.	13.7	240
223	Effect of nitrogen doping on the reducibility, activity and selectivity of carbon nanotube-supported iron catalysts applied in CO ₂ hydrogenation. <i>Applied Catalysis A: General</i> , 2014, 482, 163-170.	4.3	89
224	Interface effects in NaAlH ₄ -carbon nanocomposites for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 10175-10183.	7.1	16
225	Effect of Constant Rate Reduction on the Performance of a Ternary Cu/ZnO/Al ₂ O ₃ Catalyst in Methanol Synthesis. <i>Chemie-Ingenieur-Technik</i> , 2014, 86, 1890-1893.	0.8	2
226	Low-Temperature Oxidation of Carbon Monoxide with Gold(III) Ions Supported on Titanium Oxide. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3245-3249.	13.8	46
227	Investigation of Coking During Dry Reforming of Methane by Means of Thermogravimetry. <i>Chemie-Ingenieur-Technik</i> , 2014, 86, 1916-1924.	0.8	8
228	TiO ₂ (B)/Anatase Composites Synthesized by Spray Drying as High Performance Negative Electrode Material in Li-ion Batteries. <i>ChemSusChem</i> , 2013, 6, 1312-1315.	6.8	33
229	High-yield exfoliation of graphite in acrylate polymers: A stable few-layer graphene nanofluid with enhanced thermal conductivity. <i>Carbon</i> , 2013, 64, 288-294.	10.3	71
230	Beneficial effect of Nb doping on the photoelectrochemical properties of TiO ₂ and TiO ₂ -polyheptazine hybrids. <i>Solar Energy Materials and Solar Cells</i> , 2013, 117, 48-53.	6.2	13
231	Purified oxygen- and nitrogen-modified multi-walled carbon nanotubes as metal-free catalysts for selective olefin hydrogenation. <i>Journal of Energy Chemistry</i> , 2013, 22, 312-320.	12.9	24
232	Influence of Water on the Initial Growth Rate of Carbon Nanotubes from Ethylene over a Cobalt-Based Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 14081-14088.	3.7	16
233	Evidence for Metal-Support Interactions in Au Modified TiO ₂ /SBA-15 Materials Prepared by Photodeposition. <i>ACS Catalysis</i> , 2013, 3, 3041-3049.	11.2	28
234	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

#	ARTICLE	IF	CITATIONS
235	Chemical Activity of Thin Oxide Layers: Strong Interactions with the Support Yield a New Thin-Film Phase of ZnO. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11925-11929.	13.8	158
236	Optical investigation of carbon nanotube agglomerate growth on single catalyst particles. <i>Chemical Engineering Journal</i> , 2013, 234, 74-79.	12.7	7
237	Separating the initial growth rate from the rate of deactivation in the growth kinetics of multi-walled carbon nanotubes from ethene over a cobalt-based bulk catalyst in a fixed-bed reactor. <i>Carbon</i> , 2013, 58, 107-115.	10.3	14
238	Methanol oxidation as probe reaction for active sites in Au/ZnO and Au/TiO ₂ catalysts. <i>Journal of Catalysis</i> , 2013, 299, 162-170.	6.2	57
239	Carbon Cloth/Carbon Nanotube Electrodes for Biofuel Cells Development. <i>Electroanalysis</i> , 2013, 25, 59-67.	2.9	18
240	The effect of Al-doping on ZnO nanoparticles applied as catalyst support. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 1374-1381.	2.8	66
241	Trace metal residues promote the activity of supposedly metal-free nitrogen-modified carbon catalysts for the oxygen reduction reaction. <i>Electrochemistry Communications</i> , 2013, 34, 113-116.	4.7	124
242	Creation of surface defects on carbon nanofibers by steam treatment. <i>Journal of Energy Chemistry</i> , 2013, 22, 804-810.	12.9	4
243	CO Adsorption on a Mixed-Valence Ruthenium Metal-Organic Framework Studied by UHV-FTIR Spectroscopy and DFT Calculations. <i>Journal of Physical Chemistry C</i> , 2013, 117, 5658-5666.	3.1	48
244	The structural and electronic promoting effect of nitrogen-doped carbon nanotubes on supported Pd nanoparticles for selective olefin hydrogenation. <i>Catalysis Science and Technology</i> , 2013, 3, 1964.	4.1	79
245	Metal-supported catalysts encapsulated in mesoporous solids: Challenges and opportunities of a model concept. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 1081-1093.	1.5	8
246	Universal Method for Protein Immobilization on Chemically Functionalized Germanium Investigated by ATR-FTIR Difference Spectroscopy. <i>Journal of the American Chemical Society</i> , 2013, 135, 4079-4087.	13.7	57
247	Molecular Understanding of Reactivity and Selectivity for Methanol Oxidation at the Au/TiO ₂ Interface. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5780-5784.	13.8	63
248	Ag-stabilized few-layer graphene dispersions in low boiling point solvents for versatile nonlinear optical applications. <i>Carbon</i> , 2013, 62, 182-192.	10.3	39
249	Effect of Sn surface states on the photocatalytic activity of anatase TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2013, 140-141, 51-59.	20.2	17
250	N-doped carbon synthesized from N-containing polymers as metal-free catalysts for the oxygen reduction under alkaline conditions. <i>Electrochimica Acta</i> , 2013, 98, 139-145.	5.2	68
251	Iron Metal-Organic Frameworks MIL-88B and NH ₂ -MIL-88B for the Loading and Delivery of the Gasotransmitter Carbon Monoxide. <i>Chemistry - A European Journal</i> , 2013, 19, 6785-6790.	3.3	134
252	Nanostructured Few-Layer Graphene with Superior Optical Limiting Properties Fabricated by a Catalytic Steam Etching Process. <i>Journal of Physical Chemistry C</i> , 2013, 117, 11811-11817.	3.1	29

#	ARTICLE	IF	CITATIONS
253	Mo(VI)â€“Melamine Hybrid As Single-Source Precursor to Pure-Phase γ - MoO_3 for the Selective Hydrogenation of Naphthalene to Tetralin. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 4564-4571.	3.7	32
254	Elucidating elementary processes at Cu/ZnO interfaces: A microscopical approach. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 1071-1080.	1.5	5
255	Selective oxidation of ethanol in the liquid phase over Au/TiO ₂ . <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 1107-1118.	1.5	19
256	Ammoniaâ€“Annealed TiO ₂ as a Negative Electrode Material in Liâ€“Ion Batteries: N Doping or Oxygen Deficiency?. <i>Chemistry - A European Journal</i> , 2013, 19, 14194-14199.	3.3	39
257	Vibrational spectroscopic studies on pure and metalâ€“covered metal oxide surfaces. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 1204-1221.	1.5	19
258	Gasâ€“phase oxidation of 2â€“propanol over Au/TiO ₂ catalysts to probe metalâ€“support interactions. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 1094-1106.	1.5	25
259	Surface reaction of 2â€“propanol on modified Keggin type polyoxometalates: <i>in situ</i> IR spectroscopic investigation of the surface acidâ€“base properties. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 1165-1173.	1.5	4
260	Interfacial interaction driven CO oxidation: nanostructured Ce _{1-x} La _x O _{2-Î} /TiO ₂ solid solutions. <i>Catalysis Science and Technology</i> , 2012, 2, 745.	4.1	14
261	Rapid and Surfactant-Free Synthesis of Bimetallic Ptâ€“Cu Nanoparticles Simply via Ultrasound-Assisted Redox Replacement. <i>ACS Catalysis</i> , 2012, 2, 1647-1653.	11.2	54
262	Optimizing the Deposition of Hydrogen Evolution Sites on Suspended Semiconductor Particles using Onâ€“Line Photocatalytic Reforming of Aqueous Methanol Solutions. <i>ChemSusChem</i> , 2012, 5, 2200-2206.	6.8	29
263	Tuning the Acid/Base and Structural Properties of Titanate-Loaded Mesoporous Silica by Grafting of Zinc Oxide. <i>Journal of Physical Chemistry C</i> , 2012, 116, 14318-14327.	3.1	19
264	Probing the Mechanism of Low-Temperature CO Oxidation on Au/ZnO Catalysts by Vibrational Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012, 116, 11181-11188.	3.1	31
265	Copper nanoparticles stabilized on nitrogen-doped carbon nanotubes as efficient and recyclable catalysts for alkyne/aldehyde/cyclic amine A ₃ -type coupling reactions. <i>Applied Catalysis A: General</i> , 2012, 431-432, 88-94.	4.3	67
266	Detailed kinetic modeling of methanol synthesis over a ternary copper catalyst. <i>Chemical Engineering Journal</i> , 2012, 203, 480-491.	12.7	53
267	The Role of Oxygenâ€“and Nitrogenâ€“containing Surface Groups on the Sintering of Iron Nanoparticles on Carbon Nanotubes in Different Atmospheres. <i>ChemCatChem</i> , 2012, 4, 1997-2004.	3.7	34
268	Preparation, microstructure characterization and catalytic performance of Cu/ZnO and ZnO/Cu composite nanoparticles for liquid phase methanol synthesis. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 8170.	2.8	20
269	Enhanced performance of surface-modified TiO ₂ photocatalysts prepared via a visible-light photosynthetic route. <i>Chemical Communications</i> , 2012, 48, 8556.	4.1	35
270	Quantitative Studies on the Oxygen and Nitrogen Functionalization of Carbon Nanotubes Performed in the Gas Phase. <i>Journal of Physical Chemistry C</i> , 2012, 116, 20930-20936.	3.1	52

#	ARTICLE	IF	CITATIONS
271	Activated carbon supported molybdenum carbides as cheap and highly efficient catalyst in the selective hydrogenation of naphthalene to tetralin. <i>Green Chemistry</i> , 2012, 14, 1272.	9.0	67
272	The Surface Science Approach for Understanding Reactions on Oxide Powders: The Importance of IR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4731-4734.	13.8	68
273	Nitrogen- and Oxygen-Functionalized Multiwalled Carbon Nanotubes Used as Support in Iron-Catalyzed, High-Temperature Fischer-Tropsch Synthesis. <i>ChemCatChem</i> , 2012, 4, 350-355.	3.7	125
274	Thin film MoO_3 Supported on Fe_2O_3 as a Shell-Core Catalyst for the Selective Oxidation of Methanol to Formaldehyde. <i>ChemCatChem</i> , 2012, 4, 760-765.	3.7	11
275	Low-Temperature CO Oxidation over Cu-Based Metal-Organic Frameworks Monitored by using FTIR Spectroscopy. <i>ChemCatChem</i> , 2012, 4, 755-759.	3.7	38
276	Highly Concentrated Aqueous Dispersions of Graphene Exfoliated by Sodium Taurodeoxycholate: Dispersion Behavior and Potential Application as a Catalyst Support for the Oxygen-Reduction Reaction. <i>Chemistry - A European Journal</i> , 2012, 18, 6972-6978.	3.3	76
277	Mesoporous Nitrogen-Rich Carbon Materials as Catalysts for the Oxygen Reduction Reaction in Alkaline Solution. <i>ChemSusChem</i> , 2012, 5, 637-641.	6.8	99
278	Enhanced Electrocatalytic Stability of Platinum Nanoparticles Supported on a Nitrogen-Doped Composite of Carbon Nanotubes and Mesoporous Titania under Oxygen Reduction Conditions. <i>ChemSusChem</i> , 2012, 5, 523-525.	6.8	23
279	Gas phase oxidation as a tool to introduce oxygen containing groups on metal-loaded carbon nanofibers. <i>Carbon</i> , 2012, 50, 4424-4431.	10.3	20
280	Synthesis of an improved hierarchical carbon-fiber composite as a catalyst support for platinum and its application in electrocatalysis. <i>Carbon</i> , 2012, 50, 4534-4542.	10.3	34
281	Dissociation of formic acid on anatase $\text{TiO}_2(101)$ probed by vibrational spectroscopy. <i>Catalysis Today</i> , 2012, 182, 12-15.	4.4	58
282	On the role of the residual iron growth catalyst in the gasification of multi-walled carbon nanotubes with carbon dioxide. <i>Catalysis Today</i> , 2012, 186, 128-133.	4.4	16
283	Tailoring of CNT surface oxygen groups by gas-phase oxidation and its implications for lithium ion batteries. <i>Electrochemistry Communications</i> , 2012, 15, 10-13.	4.7	44
284	Influence of surface functional groups on lithium ion intercalation of carbon cloth. <i>Electrochimica Acta</i> , 2012, 65, 22-29.	5.2	26
285	Synthesis of high surface area ZnO powder by continuous precipitation. <i>Materials Research Bulletin</i> , 2012, 47, 1185-1190.	5.2	21
286	Glucose Oxidase/Horseradish Peroxidase Co-immobilized at a CNT-Modified Graphite Electrode: Towards Potentially Implantable Biocathodes. <i>Chemistry - A European Journal</i> , 2012, 18, 2783-2786.	3.3	42
287	Knowledge-based development of a nitrate-free synthesis route for Cu/ZnO methanol synthesis catalysts via formate precursors. <i>Chemical Communications</i> , 2011, 47, 1701.	4.1	62
288	The synthesis of Nb-doped TiO_2 nanoparticles by spray drying: an efficient and scalable method. <i>Journal of Materials Chemistry</i> , 2011, 21, 11781.	6.7	36

#	ARTICLE	IF	CITATIONS
289	The influence of the potassium promoter on the kinetics and thermodynamics of CO adsorption on a bulk iron catalyst applied in Fischer-Tropsch synthesis: a quantitative adsorption calorimetry, temperature-programmed desorption, and surface hydrogenation study. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 3701-3710.	2.8	17
290	Structural characteristics and catalytic performance of alumina-supported nanosized ceria-lanthana solid solutions. <i>Catalysis Science and Technology</i> , 2011, 1, 1645.	4.1	42
291	High-Pressure CO Adsorption on Cu-Based Catalysts: Zn-Induced Formation of Strongly Bound CO Monitored by ATR-IR Spectroscopy. <i>Langmuir</i> , 2011, 27, 4728-4733.	3.5	26
292	High-Throughput Characterization of Pt Supported on Thin Film Oxide Material Libraries Applied in the Oxygen Reduction Reaction. <i>Analytical Chemistry</i> , 2011, 83, 1916-1923.	6.5	26
293	Photocatalytic Activity of Bulk TiO_2 Anatase and Rutile Single Crystals Using Infrared Absorption Spectroscopy. <i>Physical Review Letters</i> , 2011, 106, 138302.	7.8	320
294	Activation of Carbon Dioxide on ZnO Nanoparticles Studied by Vibrational Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011, 115, 908-914.	3.1	79
295	Optimizing the synthesis of cobalt-based catalysts for the selective growth of multiwalled carbon nanotubes under industrially relevant conditions. <i>Carbon</i> , 2011, 49, 5253-5264.	10.3	41
296	A Novel Synthesis Route for $\text{Cu/ZnO/Al}_2\text{O}_3$ Catalysts used in Methanol Synthesis: Combining Continuous Consecutive Precipitation with Continuous Aging of the Precipitate. <i>ChemCatChem</i> , 2011, 3, 189-199.	3.7	47
297	Polythiophene-Assisted Vapor Phase Synthesis of Carbon Nanotube-Supported Rhodium Sulfide as Oxygen Reduction Catalyst for HCl Electrolysis. <i>ChemSusChem</i> , 2011, 4, 927-930.	6.8	13
298	Highly Dispersed $\text{MoO}_3/\text{Al}_2\text{O}_3$ Shell-Core Composites Synthesized by CVD of Mo(CO)_6 under Atmospheric Pressure. <i>Chemical Vapor Deposition</i> , 2011, 17, 162-169.	1.3	8
299	Redox-Zyklen zur Charakterisierung von Modellkatalysatoren für die selektive Propenoxidation. <i>Chemie-Ingenieur-Technik</i> , 2011, 83, 1705-1710.	0.8	4
300	Partial oxidation of methane on Pt-supported lanthanide doped ceria-zirconia oxides: Effect of the surface/lattice oxygen mobility on catalytic performance. <i>Catalysis Today</i> , 2011, 169, 125-137.	4.4	25
301	Visualization and functions of surface defects on carbon nanotubes created by catalytic etching. <i>Carbon</i> , 2011, 49, 299-305.	10.3	22
302	Understanding the complexity of a catalyst synthesis: Co-precipitation of mixed Cu,Zn,Al hydroxycarbonate precursors for Cu/ZnO/Al ₂ O ₃ catalysts investigated by titration experiments. <i>Applied Catalysis A: General</i> , 2011, 392, 93-102.	4.3	91
303	Highly active metal-free nitrogen-containing carbon catalysts for oxygen reduction synthesized by thermal treatment of polypyridine-carbon black mixtures. <i>Electrochemistry Communications</i> , 2011, 13, 593-596.	4.7	89
304	The interaction of carbon monoxide with clean and surface-modified zinc oxide nanoparticles: A UHV-FTIRS study. <i>Applied Catalysis A: General</i> , 2011, 391, 31-35.	4.3	33
305	TiO_2 ; Coating of High Surface Area Silica Gel by Chemical Vapor Deposition of TiCl_4 in a Fluidized-Bed Reactor. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 8152-8157.	0.9	6
306	Stearate-Based Cu Colloids in Methanol Synthesis: Structural Changes Driven by Strong Metal-Support Interactions. <i>ChemCatChem</i> , 2010, 2, 214-222.	3.7	44

#	ARTICLE	IF	CITATIONS
307	The Potential of Microstructural Optimization in Metal/Oxide Catalysts: Higher Intrinsic Activity of Copper by Partial Embedding of Copper Nanoparticles. <i>ChemCatChem</i> , 2010, 2, 816-818.	3.7	49
308	Spinel-type Cobalt-Manganese-Based Mixed Oxide as Sacrificial Catalyst for the High-Yield Production of Homogeneous Carbon Nanotubes. <i>ChemCatChem</i> , 2010, 2, 1559-1561.	3.7	60
309	The formation of methane over iron catalysts applied in Fischer-Tropsch synthesis: A transient and steady state kinetic study. <i>Journal of Catalysis</i> , 2010, 276, 66-75.	6.2	31
310	Patterned CNT Arrays for the Evaluation of Oxygen Reduction Activity by SECM. <i>ChemPhysChem</i> , 2010, 11, 74-78.	2.1	18
311	Probing the Reactivity of ZnO and Au/ZnO Nanoparticles by Methanol Adsorption: A TPD and DRIFTS Study. <i>ChemPhysChem</i> , 2010, 11, 2521-2529.	2.1	63
312	Hydrogen Loading of Oxide Powder Particles: A Transmission IR Study for the Case of Zinc Oxide. <i>ChemPhysChem</i> , 2010, 11, 3604-3607.	2.1	40
313	Inside Cover: Probing the Reactivity of ZnO and Au/ZnO Nanoparticles by Methanol Adsorption: A TPD and DRIFTS Study (<i>ChemPhysChem</i> 12/2010). <i>ChemPhysChem</i> , 2010, 11, 2458-2458.	2.1	0
314	The Synthesis of Highly Loaded Cu/Al ₂ O ₃ and Cu/ZnO/Al ₂ O ₃ Catalysts by the Two-step CVD of Cu ^{II} diethylaminoacetate propoxide in a Fluidized-Bed Reactor. <i>Chemical Vapor Deposition</i> , 2010, 16, 85-92.	1.3	16
315	Nitrogen-doped carbon nanotubes as a cathode catalyst for the oxygen reduction reaction in alkaline medium. <i>Electrochemistry Communications</i> , 2010, 12, 338-341.	4.7	303
316	Ethylenediamine-anchored gold nanoparticles on multi-walled carbon nanotubes: Synthesis and characterization. <i>Electrochemistry Communications</i> , 2010, 12, 939-943.	4.7	13
317	A novel continuous approach for the synthesis and characterization of pure and mixed metal oxide systems applied in heterogeneous catalysis. <i>Studies in Surface Science and Catalysis</i> , 2010, , 217-220.	1.5	0
318	Optimization of Mesh-Based Anodes for Direct Methanol Fuel Cells. <i>Journal of Fuel Cell Science and Technology</i> , 2010, 7, .	0.8	15
319	Towards a high potential biocathode based on direct bioelectrochemistry between horseradish peroxidase and hierarchically structured carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 10088.	2.8	39
320	Metal-free and electrocatalytically active nitrogen-doped carbon nanotubes synthesized by coating with polyaniline. <i>Nanoscale</i> , 2010, 2, 981.	5.6	102
321	Carbon-stabilized mesoporous MoS ₂ - Structural and surface characterization with spectroscopic and catalytic tools. <i>Catalysis Communications</i> , 2010, 12, 231-237.	3.3	14
322	Oxidation of 2-Propanol by Peroxo Titanium Complexes: A Combined Experimental and Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2010, 114, 19415-19418.	3.1	2
323	The formation of nitrogen-containing functional groups on carbon nanotube surfaces: a quantitative XPS and TPD study. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 4351.	2.8	321
324	Rh-Rh _x nanoparticles grafted on functionalized carbon nanotubes as catalyst for the oxygenreduction reaction. <i>Journal of Materials Chemistry</i> , 2010, 20, 736-742.	6.7	37

#	ARTICLE	IF	CITATIONS
325	Carbon nanotube-supported sulfided Rh catalysts for the oxygen reduction reaction. <i>Studies in Surface Science and Catalysis</i> , 2010, , 161-168.	1.5	1
326	Gas-Phase Synthesis of Gradient Catalyst Libraries Consisting of Nanoparticles Supported on High Surface Area Porous Substrates. <i>Nanoscience and Nanotechnology Letters</i> , 2010, 2, 1-6.	0.4	4
327	Vapor Phase Synthesis of Pt Nanoparticles on Carbon Nanotube-Active Carbon Hierarchical Composites. <i>ECS Transactions</i> , 2009, 25, 763-770.	0.5	1
328	Kinetics and particle size effects in ethene hydrogenation over supported palladium catalysts at atmospheric pressure. <i>Journal of Catalysis</i> , 2009, 268, 150-155.	6.2	62
329	Elektrokatalyse in Brennstoffzellen und Elektrolyseuren: Kohlenstoff- $\text{Nanor\AA}hren$ -basierte Katalysatoren und neuartige Untersuchungsmethoden. <i>Chemie-Ingenieur-Technik</i> , 2009, 81, 581-589.	0.8	1
330	A Study of the Influence of Composition on the Microstructural Properties of $\text{ZnO/Al}_2\text{O}_3$ Mixed Oxides. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 910-921.	2.0	32
331	The surface chemistry of ZnO nanoparticles applied as heterogeneous catalysts in methanol synthesis. <i>Surface Science</i> , 2009, 603, 1776-1783.	1.9	131
332	Dynamical Changes in the Cu-ZnO Interaction Observed in a Model Methanol Synthesis Catalyst. <i>Catalysis Letters</i> , 2009, 128, 49-56.	2.6	28
333	On the Role of Aging, Washing, and Drying in the Synthesis of Polycrystalline Zinc Oxide by Precipitation: Combining Fast Continuous Mixing, Spray Drying and Freeze Drying to Unravel the Solid-State Transformations of the Precipitate. <i>Catalysis Letters</i> , 2009, 129, 287-292.	2.6	17
334	PtRu nanoparticles supported on nitrogen-doped multiwalled carbon nanotubes as catalyst for methanol electrooxidation. <i>Electrochimica Acta</i> , 2009, 54, 4208-4215.	5.2	247
335	Au/ZnO as catalyst for methanol synthesis: The role of oxygen vacancies. <i>Applied Catalysis A: General</i> , 2009, 359, 121-128.	4.3	98
336	On the role of the thermal treatment of sulfided Rh/CNT catalysts applied in the oxygen reduction reaction. <i>Electrochimica Acta</i> , 2009, 54, 7186-7193.	5.2	17
337	A highly efficient gas-phase route for the oxygen functionalization of carbon nanotubes based on nitric acid vapor. <i>Carbon</i> , 2009, 47, 919-922.	10.3	160
338	Synthesis and Catalytic Performance of Pd Nanoparticle/Functionalized CNF Composites by a Two-Step Chemical Vapor Deposition of Pd(allyl)(Cp) Precursor. <i>Chemistry of Materials</i> , 2009, 21, 2360-2366.	6.7	40
339	Effect of Reduction Temperature on the Preparation and Characterization of Pt \sim Ru Nanoparticles on Multiwalled Carbon Nanotubes. <i>Langmuir</i> , 2009, 25, 3853-3860.	3.5	110
340	Thermodynamics and Kinetics of the Adsorption of Carbon Monoxide on Supported Gold Catalysts Probed by Static Adsorption Microcalorimetry: The Role of the Support. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9328-9335.	3.1	5
341	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
342	The formation of colloidal copper nanoparticles stabilized by zinc stearate: one-pot single-step synthesis and characterization of the core-shell particles. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 8358.	2.8	53

#	ARTICLE	IF	CITATIONS
343	CO ppb sensors based on monodispersed SnO _x :Pd mixed nanoparticle layers: Insight into dual conductance response. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	20
344	Physicochemical Characteristics and Catalytic Activity of Alumina-Supported Nanosized Ceria- γ -Terbia Solid Solutions. <i>Journal of Physical Chemistry C</i> , 2009, 113, 2452-2462.	3.1	52
345	On the precipitation mechanism and the role of the post-precipitation steps during the synthesis of binary ZnO-Al ₂ O ₃ composites with high specific surface area. <i>Journal of Materials Chemistry</i> , 2009, 19, 3914.	6.7	14
346	A new dual-purpose ultrahigh vacuum infrared spectroscopy apparatus optimized for grazing-incidence reflection as well as for transmission geometries. <i>Review of Scientific Instruments</i> , 2009, 80, 113108.	1.3	71
347	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
348	Entropy of adsorption of carbon monoxide on energetically heterogeneous surfaces. <i>Journal of Thermal Analysis and Calorimetry</i> , 2008, 91, 167-172.	3.6	32
349	The back-titration of chemisorbed atomic oxygen on copper by carbon monoxide investigated by microcalorimetry and transient kinetics. <i>Journal of Thermal Analysis and Calorimetry</i> , 2008, 91, 173-179.	3.6	5
350	Directional pyrolytic growth of microscale carbon fibers on electrochemically pretreated polyacrylonitrile-based carbon microfibers. <i>Mikrochimica Acta</i> , 2008, 161, 95-100.	5.0	1
351	On the Nature of the Active Site for the Oxidative Amination of Benzene to Aniline over NiO/ZrO ₂ as Cataloreactant. <i>ChemSusChem</i> , 2008, 1, 393-396.	6.8	15
352	High Surface Area ZnO Nanoparticles via a Novel Continuous Precipitation Route. <i>Advanced Functional Materials</i> , 2008, 18, 3670-3677.	14.9	44
353	Direct monitoring of photo-induced reactions on well-defined metal oxide surfaces using vibrational spectroscopy. <i>Chemical Physics Letters</i> , 2008, 460, 10-12.	2.6	56
354	Loading of MOF-5 with Cu and ZnO Nanoparticles by Gas-Phase Infiltration with Organometallic Precursors: Properties of Cu/ZnO@MOF-5 as Catalyst for Methanol Synthesis. <i>Chemistry of Materials</i> , 2008, 20, 4576-4587.	6.7	260
355	Probing the Surface Heterogeneity of Polycrystalline Zinc Oxide by Static Adsorption Microcalorimetry. 2. The Adsorption of Carbon Monoxide. <i>Journal of Physical Chemistry C</i> , 2008, 112, 10931-10937.	3.1	8
356	Hydrocarbon reactions on MoS ₂ revisited, II: Catalytic properties in alkene hydrogenation, cis- \leftrightarrow -trans isomerization, and H ₂ /D ₂ exchange. <i>Journal of Catalysis</i> , 2008, 256, 137-144.	6.2	17
357	Hydrocarbon reactions on MoS ₂ revisited, I: Activation of MoS ₂ and interaction with hydrogen studied by transient kinetic experiments. <i>Journal of Catalysis</i> , 2008, 256, 126-136.	6.2	26
358	Mechanochemical activation of MoS ₂ - γ Surface properties and catalytic activities in hydrogenation and isomerization of alkenes and in H ₂ /D ₂ exchange. <i>Journal of Catalysis</i> , 2008, 260, 236-244.	6.2	23
359	A gold-containing TiO complex: a crystalline molecular precursor as an alternative route to Au/TiO ₂ composites. <i>Dalton Transactions</i> , 2008, , 6106.	3.3	13
360	Structural Characterization and Catalytic Activity of Nanosized Ce _x M _{1-x} O ₂ (M = Zr and Hf) Mixed Oxides. <i>Journal of Physical Chemistry C</i> , 2008, 112, 11729-11737.	3.1	149

#	ARTICLE	IF	CITATIONS
361	The identification of hydroxyl groups on ZnO nanoparticles by infrared spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 7092.	2.8	320
362	Thermal Stability and Reducibility of Oxygen-Containing Functional Groups on Multiwalled Carbon Nanotube Surfaces: A Quantitative High-Resolution XPS and TPD/TPR Study. <i>Journal of Physical Chemistry C</i> , 2008, 112, 16869-16878.	3.1	799
363	Structural Characterization and Catalytic Activity of Nanosized Ceria-Teria Solid Solutions. <i>Journal of Physical Chemistry C</i> , 2008, 112, 16393-16399.	3.1	69
364	Preparation of ZnO colloids by pyrolysis of [MeZnOiPr] ₄ in the presence of hexadecylamine and probing the surface chemistry of the nanoparticles by CO/CO ₂ adsorption studies followed by FTIR. <i>Journal of Materials Chemistry</i> , 2008, 18, 3325.	6.7	17
365	Lithium-promoted hydrogenation of carbon dioxide to formates by heterobimetallic hydrido-zinc alkoxide clusters. <i>Chemical Communications</i> , 2008, , 73-75.	4.1	25
366	Probing the Surface Heterogeneity of Polycrystalline Zinc Oxide by Static Adsorption Microcalorimetry. 1. The Influence of the Thermal Pretreatment on the Adsorption of Carbon Dioxide. <i>Journal of Physical Chemistry C</i> , 2008, 112, 10938-10942.	3.1	13
367	Heterogeneous oxidation catalysis on ruthenium: bridging the pressure and materials gaps and beyond. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 184017.	1.8	57
368	Parallelized N ₂ O Frontal Chromatography for the Fast Determination of Copper Surface Areas. <i>ACS Combinatorial Science</i> , 2008, 10, 387-390.	3.3	2
369	Spatially Resolved Characterization of Catalyst-Coated Membranes by Distance-Controlled Scanning Mass Spectrometry Utilizing Catalytic Methanol Oxidation as Gas-Solid Probe Reaction. <i>Analytical Chemistry</i> , 2007, 79, 5674-5681.	6.5	9
370	Thermodynamics of Carbon Monoxide Adsorption on Polycrystalline Titania Studied by Static Adsorption Microcalorimetry. <i>Langmuir</i> , 2007, 23, 11063-11066.	3.5	4
371	Influence of Alumina, Silica, and Titania Supports on the Structure and CO Oxidation Activity of CexZr1-xO2 Nanocomposite Oxides. <i>Journal of Physical Chemistry C</i> , 2007, 111, 10478-10483.	3.1	72
372	Influence of Re-adsorption and Surface Heterogeneity on the Microkinetic Analysis of Temperature-Programmed Desorption Experiments. <i>Journal of Physical Chemistry C</i> , 2007, 111, 6000-6008.	3.1	16
373	Hafnium Doped Ceria Nanocomposite Oxide as a Novel Redox Additive for Three-Way Catalysts. <i>Journal of Physical Chemistry C</i> , 2007, 111, 1878-1881.	3.1	124
374	CO ₂ Activation by ZnO through the Formation of an Unusual Tridentate Surface Carbonate. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5624-5627.	13.8	98
375	Tuning the Reactivity of Oxide Surfaces by Charge-Accepting Adsorbates. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 7315-7318.	13.8	53
376	The Catalytic Synthesis of Three-Dimensional Hierarchical Carbon Nanotube Composites with High Electrical Conductivity Based on Electrochemical Iron Deposition. <i>Advanced Materials</i> , 2007, 19, 2957-2960.	21.0	40
377	Controlled Etching of Carbon Nanotubes by Iron-Catalyzed Steam Gasification. <i>Advanced Materials</i> , 2007, 19, 3648-3652.	21.0	44
378	The Synthesis of ZrO ₂ /SiO ₂ Nanocomposites by the Two-Step CVD of a Volatile Halogen-Free Zr Alkoxide in a Fluidized-Bed Reactor. <i>Chemical Vapor Deposition</i> , 2007, 13, 37-41.	1.3	17

#	ARTICLE	IF	CITATIONS
379	CuO/ZnO Nanoparticles in a Matrix of Amorphous Silica as High-Surface Precursors for Methanol Synthesis. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 1723-1727.	2.0	5
380	The preparation of Cu/Al ₂ O ₃ catalysts via CVD in a fluidized-bed reactor. <i>Surface and Coatings Technology</i> , 2007, 201, 9035-9040.	4.8	20
381	Chemical vapor synthesis of secondary carbon nanotubes catalyzed by iron nanoparticles electrodeposited on primary carbon nanotubes. <i>Surface and Coatings Technology</i> , 2007, 201, 9232-9237.	4.8	39
382	Comment on "CO oxidation on ruthenium: The nature of the active catalytic surface" by D.W. Goodman, C.H.F. Peden, M.S. Chen. <i>Surface Science</i> , 2007, 601, 5659-5662.	1.9	44
383	Isothermal adsorption kinetics on heterogeneous surfaces. <i>Applied Surface Science</i> , 2007, 253, 5851-5855.	6.1	6
384	Surface characterization of oxygen-functionalized multi-walled carbon nanotubes by high-resolution X-ray photoelectron spectroscopy and temperature-programmed desorption. <i>Applied Surface Science</i> , 2007, 254, 247-250.	6.1	185
385	Pulsed electrodeposition of Pt nanoclusters on carbon nanotubes modified carbon materials using diffusion restricting viscous electrolytes. <i>Electrochemistry Communications</i> , 2007, 9, 1348-1354.	4.7	86
386	A colloidal ZnO/Cu nanocatalyst for methanol synthesis. <i>Chemical Communications</i> , 2006, , 2498-2500.	4.1	48
387	Non aqueous loading of the mesoporous siliceous MCM-48 matrix with ZnO: a comparison of solution, liquid and gas-phase infiltration using diethyl zinc as organometallic precursor. <i>Journal of Materials Chemistry</i> , 2006, 16, 3565-3574.	6.7	14
388	Spectroscopic evidence for the partial dissociation of H ₂ O on ZnO(101̄,0). <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 1521.	2.8	104
389	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
390	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
391	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
392	Coverage-Dependent Kinetics and Thermodynamics of Carbon Monoxide Adsorption on a Ternary Copper Catalyst Derived from Static Adsorption Microcalorimetry. <i>Journal of Physical Chemistry B</i> , 2006, 110, 8409-8415.	2.6	15
393	Consistent Approach to Adsorption Thermodynamics on Heterogeneous Surfaces Using Different Empirical Energy Distribution Models. <i>Langmuir</i> , 2006, 22, 8063-8070.	3.5	45
394	The catalytic reduction of NO by H ₂ on Ru(0001): Observation of NH _{ads} species. <i>Surface Science</i> , 2006, 600, 370-379.	1.9	13
395	Cu/ZnO aggregates in siliceous mesoporous matrices: Development of a new model methanol synthesis catalyst. <i>Journal of Catalysis</i> , 2006, 241, 446-455.	6.2	44
396	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

#	ARTICLE	IF	CITATIONS
397	Catalytic Activity of Copper Oxide/Zinc Oxide Composites Prepared by Thermolysis of Crystallographically Defined Bimetallic Coordination Compounds. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 1796-1802.	2.0	10
398	Cu/Zn/Al Xerogels and Aerogels Prepared by a Sol-Gel Reaction as Catalysts for Methanol Synthesis. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 4774-4781.	2.0	30
399	Copper/Zinc-Tartrates: Mixed Crystals and Thermolysis to a Mixture of Copper Oxide and Zinc Oxide That Is Catalytically Active in Methanol Synthesis. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 4782-4786.	2.0	7
400	Controlled synthesis of supported ruthenium catalysts for CO oxidation by organometallic chemical vapor deposition. <i>Studies in Surface Science and Catalysis</i> , 2006, , 473-480.	1.5	3
401	Scanning mass spectrometry with integrated constant distance positioning. <i>Review of Scientific Instruments</i> , 2006, 77, 084102.	1.3	8
402	Selective photo-deposition of Cu onto the surface of monodisperse oleic acid capped TiO ₂ nanorods probed by FT-IR CO-adsorption studies. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 1550-1555.	2.8	23
403	Spatially resolved mass spectrometry as a fast semi-quantitative tool for testing heterogeneous catalyst libraries under reducing stagnant-point flow conditions. <i>Applied Catalysis A: General</i> , 2005, 281, 115-120.	4.3	11
404	The oxidative dehydrogenation of propane over potassium-promoted molybdenum oxide/sol-gel zirconia catalysts. <i>Journal of Molecular Catalysis A</i> , 2005, 225, 197-202.	4.8	22
405	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
406	The synthesis of structured Pd/C hydrogenation catalysts by the chemical vapor deposition of Pd(allyl)Cp onto functionalized carbon nanotubes anchored to vapor grown carbon microfibers. <i>Catalysis Today</i> , 2005, 102-103, 34-39.	4.4	42
407	Understanding the Structural Deactivation of Ruthenium Catalysts on an Atomic Scale under both Oxidizing and Reducing Conditions. <i>Angewandte Chemie</i> , 2005, 117, 939-942.	2.0	17
408	Deposition of Palladium from a Cyclopentadienyl-allyl-palladium Precursor on Si-Based Substrates with Various Pretreatments: The Role of Surface Si-OH and Si-H Species Studied by X-Ray Photoelectron Spectroscopy. <i>Chemical Vapor Deposition</i> , 2005, 11, 355-361.	1.3	9
409	Understanding the Structural Deactivation of Ruthenium Catalysts on an Atomic Scale under both Oxidizing and Reducing Conditions. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 917-920.	13.8	91
410	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
411	Metal@MOF: Loading of Highly Porous Coordination Polymers Host Lattices by Metal Organic Chemical Vapor Deposition. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 6237-6241.	13.8	662
412	Conical Carbon Filaments with Axial Cylindrical Channels and Open Tips. <i>Advanced Materials</i> , 2005, 17, 1677-1679.	21.0	12
413	On the Mechanism of the Oxidative Amination of Benzene with Ammonia to Aniline Over NiO/ZrO ₂ as Cataloreactant. <i>Catalysis Letters</i> , 2005, 103, 155-159.	2.6	20
414	Structure-Activity Correlations for the Oxidation of CO over Polycrystalline RuO ₂ Powder Derived from Steady-State and Transient Kinetic Experiments. <i>Zeitschrift Fur Physikalische Chemie</i> , 2005, 219, 979-995.	2.8	28

#	ARTICLE	IF	CITATIONS
415	The two-step chemical vapor deposition of Pd(allyl)Cp as an atom-efficient route to synthesize highly dispersed palladium nanoparticles on carbon nanofibers. <i>Chemical Communications</i> , 2005, , 282-284.	4.1	59
416	Chemical Vapor Deposition and Synthesis on Carbon Nanofibers: Sintering of Ferrocene-Derived Supported Iron Nanoparticles and the Catalytic Growth of Secondary Carbon Nanofibers. <i>Chemistry of Materials</i> , 2005, 17, 5737-5742.	6.7	76
417	Reactivity of ZnO Surfaces toward Maleic Anhydride. <i>Journal of Physical Chemistry B</i> , 2004, 108, 13736-13745.	2.6	40
418	Effect of potassium on the physicochemical properties of molybdenum oxide catalyst supported on sol-gel alumina-zirconia. <i>Materials Chemistry and Physics</i> , 2004, 86, 315-319.	4.0	3
419	New Synthetic Routes to More Active Cu/ZnO Catalysts Used for Methanol Synthesis. <i>Catalysis Letters</i> , 2004, 92, 49-52.	2.6	120
420	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
421	Rational Catalyst Design of Methanol Synthesis Catalysts. <i>Chemical Engineering and Technology</i> , 2004, 27, 1146-1150.	1.5	16
422	High-resolution electron microscopic, spectroscopic, and catalytic studies of intentionally sulfided Pt/ZrO ₂ -SO ₄ catalysts. <i>Journal of Catalysis</i> , 2004, 222, 419-428.	6.2	26
423	The iron-catalyzed synthesis of carbon microfibers from methane: the influence of growth conditions on conversion, selectivity, morphology and structure of the fibers. <i>Applied Catalysis A: General</i> , 2004, 274, 71-77.	4.3	24
424	The effect of promoters on the electronic structure of ruthenium catalysts supported on carbon. <i>Applied Surface Science</i> , 2004, 238, 77-81.	6.1	38
425	The valence electronic structure of zinc oxide powders as determined by X-ray emission spectroscopy: variation of electronic structure with particle size. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2004, 134, 183-189.	1.7	15
426	A novel morphology of vapor grown carbon microfibers: Connected hollow microcones. <i>Carbon</i> , 2004, 42, 2751-2753.	10.3	6
427	On the role of monomeric vanadyl species in toluene oxidation over V ₂ O ₅ /TiO ₂ catalysts: a kinetic study using the TAP reactor. <i>Catalysis Today</i> , 2004, 91-92, 143-147.	4.4	22
428	The dehydrogenation of ethylbenzene to styrene over a potassium-promoted iron oxide-based catalyst: a transient kinetic study. <i>Applied Catalysis A: General</i> , 2004, 266, 99-108.	4.3	34
429	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
430	Effect of Nickel, Lanthanum, and Yttrium Addition to Magnesium Molybdate Catalyst on the Catalytic Activity for Oxidative Dehydrogenation of Propane. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 2376-2381.	3.7	8
431	Redox Chemistry of Cu Colloids Probed by Adsorbed CO: An in Situ Attenuated Total Reflection Fourier Transform Infrared Study. <i>Langmuir</i> , 2004, 20, 9453-9455.	3.5	30
432	Deactivation of Supported Copper Catalysts for Methanol Synthesis. <i>Catalysis Letters</i> , 2003, 86, 77-80.	2.6	180

#	ARTICLE	IF	CITATIONS
433	Growth of copper particles in a Cu/ZnO methanol catalyst. <i>Scripta Materialia</i> , 2003, 49, 527-532.	5.2	7
434	High-throughput screening under demanding conditions: Cu/ZnO catalysts in high pressure methanol synthesis as an example. <i>Journal of Catalysis</i> , 2003, 216, 110-119.	6.2	71
435	The influence of ZnO on the differential heat of adsorption of CO on Cu catalysts: a microcalorimetric study. <i>Journal of Catalysis</i> , 2003, 220, 249-253.	6.2	71
436	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
437	Adsorptive removal of methylene blue from colored effluents on fuller's earth. <i>Journal of Colloid and Interface Science</i> , 2003, 261, 32-39.	9.4	120
438	Catalytic CO oxidation over ruthenium—bridging the pressure gap. <i>Progress in Surface Science</i> , 2003, 72, 3-17.	8.3	199
439	Electron spectroscopy of sulfated zirconia, its activity in n-hexane conversion and possible reasons of its deactivation. <i>Applied Catalysis A: General</i> , 2003, 240, 71-81.	4.3	43
440	Cesium-promoted rhenium catalysts supported on alumina for ammonia synthesis. <i>Applied Catalysis A: General</i> , 2003, 246, 311-322.	4.3	36
441	The preparation of Pd/SiO ₂ catalysts by chemical vapor deposition in a fluidized-bed reactor. <i>Applied Catalysis A: General</i> , 2003, 248, 85-95.	4.3	35
442	Advances in catalyst development for oxidative ethylbenzene dehydrogenation. <i>Catalysis Today</i> , 2003, 81, 413-424.	4.4	13
443	Ruthenium as oxidation catalyst: bridging the pressure and material gaps between ideal and real systems in heterogeneous catalysis by applying DRIFT spectroscopy and the TAP reactor. <i>Catalysis Today</i> , 2003, 85, 235-249.	4.4	59
444	The structure of zinc and copper oxide species hosted in porous siliceous matrices. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 4325-4334.	2.8	57
445	Methanol synthesis over ZnO: A structure-sensitive reaction?. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 4736-4742.	2.8	101
446	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
447	The Interaction of Hydrogen with Ru/MgO Catalysts. <i>Journal of Catalysis</i> , 2002, 209, 501-514.	6.2	36
448	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
449	The Temperature-Programmed Desorption of Oxygen from an Alumina-Supported Silver Catalyst. <i>Catalysis Letters</i> , 2002, 79, 49-54.	2.6	34
450	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

#	ARTICLE	IF	CITATIONS
451	Sulfur uptake and exchange, HDS activity and structure of sulfided, Al ₂ O ₃ supported MoO _x , PdMoO _x and PtMoO _x catalysts. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 1535-1543.	2.8	21
452	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
453	CO Oxidation over Supported Gold Catalystsâ€”â€œInertâ€•and â€œActiveâ€•Support Materials and Their Role for the Oxygen Supply during Reaction. <i>Journal of Catalysis</i> , 2001, 197, 113-122.	6.2	1,094
454	Predictions of Relationships between Catalytic and Solid Phase Properties by Kinetic Models and Their Validation. <i>Journal of Catalysis</i> , 2001, 199, 92-106.	6.2	22
455	Oxidation Reactions over RuO ₂ : A Comparative Study of the Reactivity of the (110) Single Crystal and Polycrystalline Surfaces. <i>Journal of Catalysis</i> , 2001, 202, 296-307.	6.2	129
456	Title is missing!. <i>Catalysis Letters</i> , 2001, 71, 37-44.	2.6	246
457	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
458	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
459	Selective Catalytic Reduction of NO by Ammonia over Raney-Ni Supported Cu-ZSM-5 I. Catalyst Activity and Stability. <i>Chemical Engineering and Technology</i> , 2000, 23, 273-278.	1.5	2
460	Die Chemisorption von N ₂ O und H ₂ zur OberflÃchenbestimmung von Kupfer-Katalysatoren. <i>Chemie-Ingenieur-Technik</i> , 2000, 72, 94-98.	0.8	5
461	PrÃparation und Charakterisierung von nanokristallinem ZrO ₂ . <i>Materialwissenschaft Und Werkstofftechnik</i> , 2000, 31, 860-863.	0.9	0
462	Chemisorption of N ₂ O and H ₂ for the Surface Determination of Copper Catalysts. <i>Chemical Engineering and Technology</i> , 2000, 23, 956-959.	1.5	92
463	On the role of monomeric vanadyl species in toluene adsorption and oxidation on V ₂ O ₅ /TiO ₂ catalysts: a Raman and in situ DRIFTS study. <i>Journal of Molecular Catalysis A</i> , 2000, 162, 401-411.	4.8	161
464	Selective catalytic reduction of NO by ammonia over Raney-Ni supported Cu-ZSM-5. <i>Applied Catalysis B: Environmental</i> , 2000, 27, 37-47.	20.2	19
465	Heck reactions catalyzed by oxide-supported palladium â€• structureâ€• activity relationships. <i>Topics in Catalysis</i> , 2000, 13, 319-326.	2.8	93
466	Cuâ€•ZSMâ€•5/Ni net composite used as DeNO _x catalyst. <i>Catalysis Letters</i> , 2000, 66, 237-240.	2.6	1
467	Title is missing!. <i>Topics in Catalysis</i> , 2000, 11/12, 263-270.	2.8	19
468	Probing the elementary steps of the water-gas shift reaction over Cu/ZnO/Al ₂ O ₃ with transient experiments. <i>Studies in Surface Science and Catalysis</i> , 2000, 130, 3825-3830.	1.5	15

#	ARTICLE	IF	CITATIONS
469	The possible reasons of irreversible deactivation of Pt/sulfated zirconia catalysts: structural and surface analysis. <i>Applied Catalysis A: General</i> , 1999, 188, 257-266.	4.3	36
470	The effect of tungsten additive on the surface characteristics of amorphous Ni-P alloy. <i>Applied Surface Science</i> , 1999, 148, 241-247.	6.1	28
471	Hydroisomerization of n-hexane over Pt/sulfated zirconia: activity, reversible deactivation, and surface analysis. <i>Applied Catalysis A: General</i> , 1999, 189, 225-236.	4.3	28
472	The temperature-programmed desorption of hydrogen from copper surfaces. <i>Catalysis Letters</i> , 1999, 59, 137-141.	2.6	73
473	Evidences for the Formation of Chromium in the Unusual Oxidation State Cr(IV). <i>Journal of Solid State Chemistry</i> , 1999, 145, 247-252.	2.9	9
474	Modeling of Temperature-Programmed Surface Reactions. <i>Chemical Engineering and Technology</i> , 1999, 22, 1039-1042.	1.5	15
475	Coadsorption of nitric oxide and oxygen on the Ag(110) surface. <i>Surface Science</i> , 1999, 425, 224-232.	1.9	42
476	The reduction of NO with H ₂ over Ru/MgO. <i>Catalysis Letters</i> , 1998, 53, 77-81.	2.6	30
477	Sulfided Pt Catalysts. <i>Journal of Catalysis</i> , 1998, 175, 245-251.	6.2	17
478	Evolution of the Catalytic Activity in Pt/Sulfated Zirconia Catalysts: Structure, Composition, and Catalytic Properties of the Catalyst Precursor and the Calcined Catalyst. <i>Journal of Catalysis</i> , 1998, 178, 338-351.	6.2	65
479	Depth distribution of zinc adsorbed on silicon surfaces out of alkaline aqueous solutions. <i>Applied Surface Science</i> , 1998, 133, 73-83.	6.1	4
480	Oxidation of amorphous Ni-Zr alloys studied by XPS, UPS, ISS and XRD. <i>Applied Surface Science</i> , 1998, 134, 31-38.	6.1	54
481	Bulk and surface analysis of a supported Pt-Mo-Al ₂ O ₃ model system in the fresh and sulfided state. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 459-466.	1.7	21
482	Electronic State of Nickel in Barium Nickel Oxide, BaNiO ₃ . <i>Inorganic Chemistry</i> , 1998, 37, 1513-1518.	4.0	61
483	Preparation, crystal structures, experimental and theoretical electronic band structures of cobalt tellurides in the composition range. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 2947-2962.	1.8	23
484	The Synthesis of Zeolite ZSM-5 on Raney Ni: A Novel Composite Catalyst Precursor. <i>Studies in Surface Science and Catalysis</i> , 1998, 118, 331-340.	1.5	3
485	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
486	The influence of oxygen poisoning on a multiply promoted Iron catalyst used for ammonia synthesis: A temperature-programmed desorption and reaction study. <i>Studies in Surface Science and Catalysis</i> , 1997, 111-120.	1.5	1

#	ARTICLE	IF	CITATIONS
487	Evidence for the formation of valence band holes due to topotactical TI removal in the ternary channel compound TiCr ₃ S ₅ : chemical reactivity and experimental electronic structure. <i>Journal of Alloys and Compounds</i> , 1997, 246, 62-69.	5.5	8
488	Sulfur adsorbed on Pt catalyst: its chemical state and effect on catalytic properties as studied by electron spectroscopy and n-hexane test reactions. <i>Applied Catalysis A: General</i> , 1997, 149, 113-132.	4.3	71
489	The micromorphology of the activated iron catalyst used for ammonia synthesis. <i>Applied Catalysis A: General</i> , 1997, 163, 83-99.	4.3	12
490	Surface-embedded oxygen: Electronic structure of Ag(111) and Cu(poly) oxidized at atmospheric pressure. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1997, 101, 994-1006.	0.9	33
491	The Kinetics of Ammonia Synthesis over Ru-Based Catalysts. <i>Journal of Catalysis</i> , 1997, 165, 33-44.	6.2	150
492	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
493	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
494	Plasma polymer membranes from hexafluoroethane/hydrogen mixtures for separation of oxygen and nitrogen. <i>Journal of Applied Polymer Science</i> , 1997, 63, 1517-1526.	2.6	31
495	The change from quasi-one-dimensional to three-dimensional metallic behavior: theoretical and experimental electronic band structures and electrical properties of Nb ₃ Te ₄ and Nb ₃ Te ₃ As. <i>Journal of Alloys and Compounds</i> , 1996, 244, 59-69.	5.5	6
496	Interaction of oxygen with silver at high temperature and atmospheric pressure: A spectroscopic and structural analysis of a strongly bound surface species. <i>Physical Review B</i> , 1996, 54, 2249-2262.	3.2	248
497	Investigations of zeolites by photoelectron and ion-scattering spectroscopy. Part 3. "Cation depletion at the external surface of HNa-faujasites. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 701-706.	1.7	7
498	Platinum Black by XPS. <i>Surface Science Spectra</i> , 1996, 4, 119-124.	1.3	7
499	Sulfided Platinum Black by XPS. <i>Surface Science Spectra</i> , 1996, 4, 125-129.	1.3	2
500	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
501	The microkinetics of ammonia synthesis catalyzed by cesium-promoted supported ruthenium. <i>Chemical Engineering Science</i> , 1996, 51, 1683-1690.	3.8	102
502	Anionic Polymeric Bonds in Nickel Ditelluride: Crystal Structure, and Experimental and Theoretical Band Structure. <i>Journal of Solid State Chemistry</i> , 1996, 121, 87-94.	2.9	54
503	Ruthenium as catalyst for ammonia synthesis. <i>Studies in Surface Science and Catalysis</i> , 1996, 101, 317-326.	1.5	60
504	The preparation of stable Ru metal clusters in zeolite Y used as catalyst for ammonia synthesis. <i>Studies in Surface Science and Catalysis</i> , 1995, 91, 217-226.	1.5	6

#	ARTICLE	IF	CITATIONS
505	Pt-Black Catalysts Sintered at Different Temperatures: Surface Analysis and Activity in Reactions of n-Hexane. <i>Journal of Catalysis</i> , 1995, 152, 252-263.	6.2	44
506	The effect of water on the formation of strongly bound oxygen on silver surfaces. <i>Catalysis Letters</i> , 1995, 32, 171-183.	2.6	79
507	Oxidative coupling of methane on silver catalysts. <i>Catalysis Letters</i> , 1995, 32, 185-194.	2.6	50
508	On the relation between catalytic performance and microstructure of polycrystalline silver in the partial oxidation of methanol. <i>Catalysis Letters</i> , 1995, 33, 305-319.	2.6	79
509	Experimental and Theoretical Bandstructure of the Layer Compound ZrSiTe. <i>The Journal of Physical Chemistry</i> , 1995, 99, 3326-3330.	2.9	32
510	Ion beam-induced dissociative chemisorption of nitrogen on Ru(0001). <i>Surface Science</i> , 1995, 334, L701-L704.	1.9	8
511	Investigations of Zeolites by Photoelectron and Ion Scattering Spectroscopy. 2. A New Interpretation of XPS Binding Energy Shifts in Zeolites. <i>The Journal of Physical Chemistry</i> , 1994, 98, 10920-10929.	2.9	70
512	Mikrokinetische Modellierung der temperaturprogrammierten Stickstoffdesorption vom technischen Eisenkatalysator für die Ammoniak-Synthese. <i>Chemie-Ingenieur-Technik</i> , 1994, 66, 1375-1378.	0.8	7
513	Single Crystal Structure, Magnetic Properties, and Electronic Structure of $Tl_xCr_5S_8$ ($x = 1.0$ and 0.7). <i>Journal of Solid State Chemistry</i> , 1994, 110, 234-242.	2.9	21
514	Thermal Decomposition of Silver Oxide Monitored by Raman Spectroscopy: From AgO Units to Oxygen Atoms Chemisorbed on the Silver Surface. <i>Angewandte Chemie International Edition in English</i> , 1994, 33, 85-86.	4.4	64
515	Alkali hydroxides as promoters of Mn_3O_4 in the selective reduction of nitrobenzene; an X-ray photoelectron spectroscopy, ultraviolet photoelectron spectroscopy and ion scattering spectroscopy study. <i>Applied Catalysis A: General</i> , 1994, 115, 69-84.	4.3	9
516	The effect of cyclic oxidation-reduction pretreatments on an amorphous Ni ₈ OP ₂ O catalyst: an XPS/UPS/ISS study. <i>Applied Surface Science</i> , 1994, 81, 341-346.	6.1	24
517	The dissociative adsorption of N ₂ on a multiply promoted iron catalyst used for ammonia synthesis: a temperature-programmed desorption study. <i>Catalysis Letters</i> , 1994, 24, 317-331.	2.6	43
518	On the role of adsorbed atomic oxygen and CO ₂ in copper based methanol synthesis catalysts. <i>Catalysis Letters</i> , 1994, 25, 1-10.	2.6	96
519	Ruthenium supported on zeolite A: preparation and characterisation of a stable catalyst for ammonia synthesis. <i>Catalysis Letters</i> , 1994, 25, 61-74.	2.6	30
520	Substitution of vanadium by chromium in thallium pentavanadium octasulfide. Part II. Electronic structure. an XPS and UPS study. <i>Materials Research Bulletin</i> , 1994, 29, 155-166.	5.2	10
521	Surface-enhanced Raman scattering from surface and subsurface oxygen species at microscopically well-defined Ag surfaces. <i>Physical Review Letters</i> , 1994, 72, 1561-1564.	7.8	81
522	The Application of Ru-exchanged Zeolite NaY in Ammonia Synthesis. <i>Studies in Surface Science and Catalysis</i> , 1994, 84, 941-948.	1.5	11

#	ARTICLE	IF	CITATIONS
523	The Interaction of H ₂ and N ₂ with Iron Catalysts Used for NH ₃ Synthesis: A Temperature-Programmed Desorption and Reaction Study. <i>Journal of Catalysis</i> , 1993, 142, 135-146.	6.2	33
524	The Possible Interpretation of XP Spectra of Supported Pt Catalysts in the Oxidized and Sulfided State. <i>Journal of Catalysis</i> , 1993, 143, 318-321.	6.2	48
525	Reply to the comment by Bailey and Waugh on the use of temperature programmed desorption of H ₂ to determine metal surface area of Cu catalysts. <i>Catalysis Letters</i> , 1993, 17, 375-376.	2.6	3
526	On the nature of the active state of silver during catalytic oxidation of methanol. <i>Catalysis Letters</i> , 1993, 22, 215-225.	2.6	160
527	Temperature-programmed desorption of H ₂ as a tool to determine metal surface areas of Cu catalysts. <i>Catalysis Letters</i> , 1992, 14, 241-249.	2.6	82
528	Application of Ru exchanged zeolite-Y in ammonia synthesis. <i>Catalysis Letters</i> , 1992, 14, 339-348.	2.6	20
529	The nature of the iron oxide-based catalyst for dehydrogenation of ethylbenzene to styrene 2. Surface chemistry of the active phase. <i>Journal of Catalysis</i> , 1992, 138, 413-444.	6.2	401
530	XPS of platinum in Pt/SiO ₂ (Europt-1): Possibilities and limitations of the method. <i>Applied Surface Science</i> , 1991, 47, 281-285.	6.1	19
531	Comment on "on the role of promoters in promoted iron catalysts used in the industrial synthesis of ammonia". <i>Chemical Physics Letters</i> , 1991, 181, 380-382.	2.6	5
532	The Interaction of Silver with Oxygen. <i>Zeitschrift Fur Physikalische Chemie</i> , 1991, 174, 11-52.	2.8	102
533	Rydberg and multiple electron excitations of N ₂ adsorbed on Fe(111): a NEXAFS study. <i>Physica Scripta</i> , 1990, 41, 1028-1030.	2.5	5
534	Transformations of n-hexane on EuroPt-1 at low conversions. <i>Applied Catalysis</i> , 1990, 66, 301-317.	0.8	12
535	The nature of the iron oxide-based catalyst for dehydrogenation of ethylbenzene to styrene I. Solid-state chemistry and bulk characterization. <i>Journal of Catalysis</i> , 1990, 126, 339-360.	6.2	154
536	Rydberg and multiple-electron excitations in x-ray photoabsorption spectra of N ₂ adsorbed on Fe(111). <i>Physical Review B</i> , 1989, 40, 6409-6412.	3.2	30
537	Sintering of platinum-black in hydrogen: Morphology and catalytic activity. <i>Journal of Catalysis</i> , 1989, 119, 146-160.	6.2	31
538	The nature of the active phase of the Fe/K-catalyst for dehydrogenation of ethylbenzene. <i>Catalysis Letters</i> , 1989, 2, 201-210.	2.6	56
539	Analysis in situ prepared surfaces of an iron oxide based dehydrogenation catalyst. <i>Surface and Interface Analysis</i> , 1988, 12, 233-238.	1.8	10
540	Bridging the "material gap" between single crystal studies and real catalysis. <i>Catalysis Letters</i> , 1988, 1, 237-241.	2.6	42

#	ARTICLE	IF	CITATIONS
541	Electron energy-loss spectroscopy and the crystal chemistry of rhodizite. Part 2. "Near-edge structure. Journal of the Chemical Society Faraday Transactions I, 1988, 84, 631.	1.0	29
542	Design of a continuous flow microreactor attached to a surface analysis system: First results with an iron oxide based catalyst. Surface Science, 1987, 189-190, 69-79.	1.9	14
543	Generation of Zinc-Gallium-Oxynitride Nanoparticles from CVS Powders for Photocatalytic Water Splitting. , 0, , .		0
544	Selective anodic oxidation of solketal as acetalâ€protected glycerol over nickel boride in alkaline media to glyceric acid. ChemElectroChem, 0, , .	3.4	2
545	Generation of Zinc-Gallium-Oxynitride Nanoparticles from CVS Powders for Photocatalytic Water Splitting. , 0, , .		0
546	Probing the methanol-assisted autocatalytic formation of methanol over Cu/ZnO/Al ₂ O ₃ by high-pressure methanol and methyl formate pulses. Reaction Chemistry and Engineering, 0, , .	3.7	2