List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4867448/publications.pdf Version: 2024-02-01



| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | The potential of NO <sup>+</sup> and O <sub>2</sub> <sup>+•</sup> in switchable reagent ion proton<br>transfer reaction timeâ€ofâ€flight mass spectrometry. Mass Spectrometry Reviews, 2023, 42, 1688-1726.                            | 5.4  | 6         |
| 2  | Chemical Batteries with CO <sub>2</sub> . Angewandte Chemie - International Edition, 2022, 61, .   | 13.8 | 23        |
| 3  | Electrocatalysis Beyond 2020: How to Tune the Preexponential Frequency Factor. ChemElectroChem, 2022, 9, .   | 3.4  | 5         |
| 4  | The rise of electrochemical NAPXPS operated in the soft X-ray regime exemplified by the oxygen evolution reaction on IrO <sub><i>x</i></sub> electrocatalysts. Faraday Discussions, 2022, 236, 103-125.                                | 3.2  | 11        |
| 5  | Transition-Metal-Doping of CaO as Catalyst for the OCM Reaction, a Reality Check. Frontiers in Chemistry, 2022, 10, 768426.  | 3.6  | 7         |
| 6  | Insights into the electronic structure of hydroxyl on Ag(110) under near ambient conditions. Physical Chemistry Chemical Physics, 2022, 24, 8832-8838.   | 2.8  | 2         |
| 7  | Quo Vadis Dry Reforming of Methane?—A Review on Its Chemical, Environmental, and Industrial<br>Prospects. Catalysts, 2022, 12, 465.  | 3.5  | 9         |
| 8  | Interfacial catalytic materials; challenge for inorganic synthetic chemistry. Zeitschrift Fur<br>Naturforschung - Section B Journal of Chemical Sciences, 2022, 77, 475-485.   | 0.7  | 2         |
| 9  | Role of Nanoscale Inhomogeneities in Co <sub>2</sub> FeO <sub>4</sub> Catalysts during the Oxygen Evolution Reaction. Journal of the American Chemical Society, 2022, 144, 12007-12019.  | 13.7 | 52        |
| 10 | Modular Design of Highly Active Unitized Reversible Fuel Cell Electrocatalysts. ACS Energy Letters, 2021, 6, 177-183.  | 17.4 | 22        |
| 11 | Perspective on experimental evaluation of adsorption energies at solid/liquid interfaces. Journal of Solid State Electrochemistry, 2021, 25, 33-42.  | 2.5  | 4         |
| 12 | Is direct seawater splitting economically meaningful?. Energy and Environmental Science, 2021, 14, 3679-3685.  | 30.8 | 158       |
| 13 | In situ and operando electron microscopy in heterogeneous catalysis—insights into multi-scale<br>chemical dynamics. Journal of Physics Condensed Matter, 2021, 33, 153001.   | 1.8  | 22        |
| 14 | Isolated Pd atoms in a silver matrix: Spectroscopic and chemical properties. Journal of Chemical Physics, 2021, 154, 184703.   | 3.0  | 10        |
| 15 | Surface composition of AgPd single-atom alloy catalyst in an oxidative environment. Journal of Chemical Physics, 2021, 154, 174708.  | 3.0  | 4         |
| 16 | Ultrathin 2D Fe-Nanosheets Stabilized by 2D Mesoporous Silica: Synthesis and Application in Ammonia<br>Synthesis. ACS Applied Materials & Interfaces, 2021, 13, 30187-30197.   | 8.0  | 3         |
| 17 | Coordination Number-Dependent Complete Oxidation of Methane on NiO Catalysts. ACS Catalysis, 2021, 11, 9837-9849.  | 11.2 | 9         |
| 18 | Determination of trace compounds and artifacts in nitrogen background measurements by proton<br>transfer reaction timeâ€ofâ€flight mass spectrometry under dry and humid conditions. Journal of Mass<br>Spectrometry, 2021, 56, e4777. | 1.6  | 2         |

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | Complexions at the Electrolyte/Electrode Interface in Solid Oxide Cells. Advanced Materials<br>Interfaces, 2021, 8, 2100967.  | 3.7  | 8         |
| 20 | Surface Electron-Hole Rich Species Active in the Electrocatalytic Water Oxidation. Journal of the American Chemical Society, 2021, 143, 12524-12534.  | 13.7 | 62        |
| 21 | The Influence of the Chemical Potential on Defects and Function of Perovskites in Catalysis. Frontiers in Chemistry, 2021, 9, 746229.   | 3.6  | 4         |
| 22 | Operation of calcium-birnessite water-oxidation anodes: interactions of the catalyst with phosphate buffer anions. Sustainable Energy and Fuels, 2021, 5, 5535-5547.                                      | 4.9  | 3         |
| 23 | Chemical energy storage enables the transformation of fossil energy systems to sustainability. Green Chemistry, 2021, 23, 1584-1593.  | 9.0  | 34        |
| 24 | The Effect of Iron Impurities on Transition Metal Catalysts for the Oxygen Evolution Reaction in<br>Alkaline Environment: Activity Mediators or Active Sites?. Catalysis Letters, 2021, 151, 1843-1856.   | 2.6  | 46        |
| 25 | Imaging the dynamics of catalysed surface reactions by in situ scanning electron microscopy. Nature<br>Catalysis, 2020, 3, 30-39.   | 34.4 | 51        |
| 26 | Compositional Decoupling of Bulk and Surface in Open-Structured Complex Mixed Oxides. Journal of Physical Chemistry C, 2020, 124, 23069-23077.  | 3.1  | 7         |
| 27 | Towards Experimental Handbooks in Catalysis. Topics in Catalysis, 2020, 63, 1683-1699.  | 2.8  | 28        |
| 28 | In situ observation of oscillatory redox dynamics of copper. Nature Communications, 2020, 11, 3554.   | 12.8 | 27        |
| 29 | Preparation of Solid Solution and Layered IrO <i><sub>x</sub></i> –Ni(OH) <sub>2</sub> Oxygen<br>Evolution Catalysts: Toward Optimizing Iridium Efficiency for OER. ACS Catalysis, 2020, 10, 14640-14648. | 11.2 | 40        |
| 30 | Graphene-Capped Liquid Thin Films for Electrochemical Operando X-ray Spectroscopy and Scanning Electron Microscopy. ACS Applied Materials & amp; Interfaces, 2020, 12, 37680-37692.                       | 8.0  | 33        |
| 31 | Influence of Contaminants in Steel Mill Exhaust Gases on Cu/ZnO/Al <sub>2</sub> O <sub>3</sub><br>Catalysts Applied in Methanol Synthesis. Chemie-Ingenieur-Technik, 2020, 92, 1525-1532.                 | 0.8  | 16        |
| 32 | The HüGaPropâ€Container: Analytical Infrastructure for the Carbon2Chem® Challenge.<br>Chemie-Ingenieur-Technik, 2020, 92, 1514-1524.  | 0.8  | 6         |
| 33 | Chemische Batterien mit CO2. Angewandte Chemie, 2020, , .   | 2.0  | 1         |
| 34 | Calorimetric Signature of Deuterated Ice II: Turning an Endotherm to an Exotherm. Journal of Physical<br>Chemistry Letters, 2020, 11, 8268-8274.  | 4.6  | 3         |
| 35 | Methane Pyrolysis for CO <sub>2</sub> â€Free H <sub>2</sub> Production: A Green Process to Overcome<br>Renewable Energies Unsteadiness. Chemie-Ingenieur-Technik, 2020, 92, 1596-1609                     | 0.8  | 109       |
| 36 | Oxygen Poisoning in Laboratory Testing of Ironâ€Based Ammonia Synthesis Catalysts and its Potential<br>Sources. Chemie-Ingenieur-Technik, 2020, 92, 1567-1573.  | 0.8  | 8         |

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 37 | On the Activity/Selectivity and Phase Stability of Thermally Grown Copper Oxides during the Electrocatalytic Reduction of CO <sub>2</sub> . ACS Catalysis, 2020, 10, 11510-11518.   | 11.2 | 39        |
| 38 | Quo Vadis Micro-Electro-Mechanical Systems for the Study of Heterogeneous Catalysts Inside the Electron Microscope?. Topics in Catalysis, 2020, 63, 1623-1643.  | 2.8  | 14        |
| 39 | Fluctuating Storage of the Active Phase in a Mnâ€Na <sub>2</sub> WO <sub>4</sub> /SiO <sub>2</sub><br>Catalyst for the Oxidative Coupling of Methane. Angewandte Chemie - International Edition, 2020, 59,<br>14921-14926.                        | 13.8 | 50        |
| 40 | Fluctuating Storage of the Active Phase in a Mnâ€Na <sub>2</sub> WO <sub>4</sub> /SiO <sub>2</sub><br>Catalyst for the Oxidative Coupling of Methane. Angewandte Chemie, 2020, 132, 15031-15036.  | 2.0  | 19        |
| 41 | A Metalâ€Free Electrode: From Biomassâ€Derived Carbon to Hydrogen. ChemSusChem, 2020, 13, 4064-4068.  | 6.8  | 21        |
| 42 | Revealing the Active Phase of Copper during the Electroreduction of CO <sub>2</sub> in Aqueous<br>Electrolyte by Correlating <i>In Situ</i> X-ray Spectroscopy and <i>In Situ</i> Electron Microscopy.<br>ACS Energy Letters, 2020, 5, 2106-2111. | 17.4 | 84        |
| 43 | Visualizing the importance of oxide-metal phase transitions in the production of synthesis gas over Ni<br>catalysts. Journal of Energy Chemistry, 2020, 50, 178-186.  | 12.9 | 10        |
| 44 | CO <sub>2</sub> Hydrogenation with Cu/ZnO/Al <sub>2</sub> O <sub>3</sub> : A Benchmark Study.<br>ChemCatChem, 2020, 12, 3216-3222.  | 3.7  | 45        |
| 45 | Investigation of Electrocatalysts Produced by a Novel Thermal Spray Deposition Method. Materials, 2020, 13, 2746.   | 2.9  | 1         |
| 46 | Transition from 2D to 3D SBAâ€15 by Highâ€Temperature Fluoride Addition and its Impact on the Surface<br>Reactivity Probed by Isopropanol Conversion. Chemistry - A European Journal, 2020, 26, 11571-11583.                                      | 3.3  | 5         |
| 47 | The Coalescence Behavior of Two-Dimensional Materials Revealed by Multiscale <i>In Situ</i> Imaging during Chemical Vapor Deposition Growth. ACS Nano, 2020, 14, 1902-1918.   | 14.6 | 35        |
| 48 | Heteronuclear cross-relaxation effect modulated by the dynamics of N-functional groups in the solid state under 15N DP-MAS DNP. Journal of Magnetic Resonance, 2020, 312, 106688.   | 2.1  | 13        |
| 49 | Nanocatalysts Unravel the Selective State of Ag. ChemCatChem, 2020, 12, 2977-2988.  | 3.7  | 9         |
| 50 | The Mechanism of Interfacial CO <sub>2</sub> Activation on Al Doped Cu/ZnO. ACS Catalysis, 2020, 10, 5672-5680.   | 11.2 | 21        |
| 51 | Put the Sun in the Tank: Future Developments in Sustainable Energy Systems. Angewandte Chemie -<br>International Edition, 2019, 58, 343-348.  | 13.8 | 34        |
| 52 | Highly Dispersed Ni <sup>0</sup> /Ni <sub><i>x</i></sub> Mg <sub>1–<i>x</i></sub> O Catalysts Derived from Solid Solutions: How Metal and Support Control the CO <sub>2</sub> Hydrogenation. ACS Catalysis, 2019, 9, 8534-8546.                   | 11.2 | 39        |
| 53 | Facile Protocol for Alkaline Electrolyte Purification and Its Influence on a Ni–Co Oxide Catalyst for the Oxygen Evolution Reaction. ACS Catalysis, 2019, 9, 8165-8170.   | 11.2 | 59        |
| 54 | Correlation Between Reactivity and Oxidation State of Cobalt Oxide Catalysts for CO Preferential Oxidation. ACS Catalysis, 2019, 9, 8325-8336.  | 11.2 | 58        |

| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 55 | Innentitelbild: Atomic‧cale Observation of the Metal–Promoter Interaction in Rhâ€Based<br>Syngasâ€Upgrading Catalysts (Angew. Chem. 26/2019). Angewandte Chemie, 2019, 131, 8688-8688.                                   | 2.0  | 0         |
| 56 | Insights into Water Interaction at the Interface of Nitrogen-Functionalized Hydrothermal Carbons.<br>Journal of Physical Chemistry C, 2019, 123, 25146-25156.  | 3.1  | 6         |
| 57 | Pack die Sonne in den Tank: Zur Weiterentwicklung nachhaltiger Energiesysteme. Angewandte Chemie, 2019, 131, 349-354.  | 2.0  | 4         |
| 58 | Evolution of Oxygen–Metal Electron Transfer and Metal Electronic States During Manganese Oxide<br>Catalyzed Water Oxidation Revealed with Inâ€Situ Soft Xâ€Ray Spectroscopy. Angewandte Chemie, 2019, 131,<br>3464-3470. | 2.0  | 28        |
| 59 | Development of a tubular continuous flow reactor for the investigation of improved gas–solid interaction in photocatalytic CO2 reduction on TiO2. Photochemical and Photobiological Sciences, 2019, 18, 314-318.         | 2.9  | 12        |
| 60 | How to control selectivity in alkane oxidation?. Chemical Science, 2019, 10, 2429-2443.  | 7.4  | 28        |
| 61 | The Role of Supported Atomically Distributed Metal Species in Electrochemistry and How to Create Them. ChemElectroChem, 2019, 6, 3860-3877.  | 3.4  | 11        |
| 62 | Influence of CO on the Activation, O-Vacancy Formation, and Performance of Au/ZnO Catalysts in<br>CO <sub>2</sub> Hydrogenation to Methanol. Journal of Physical Chemistry Letters, 2019, 10, 3645-3653.                 | 4.6  | 41        |
| 63 | In Situ Quantification of Reaction Adsorbates in Low-Temperature Methanol Synthesis on a<br>High-Performance Cu/ZnO:Al Catalyst. ACS Catalysis, 2019, 9, 5537-5544.  | 11.2 | 32        |
| 64 | Atomicâ€Scale Observation of the Metal–Promoter Interaction in Rhâ€Based Syngasâ€Upgrading Catalysts.<br>Angewandte Chemie - International Edition, 2019, 58, 8709-8713.   | 13.8 | 35        |
| 65 | Strong Metal–Support Interactions between Copper and Iron Oxide during the Highâ€Temperature<br>Waterâ€Gas Shift Reaction. Angewandte Chemie - International Edition, 2019, 58, 9083-9087.                               | 13.8 | 82        |
| 66 | Atomic‣cale Observation of the Metal–Promoter Interaction in Rhâ€Based Syngasâ€Upgrading Catalysts.<br>Angewandte Chemie, 2019, 131, 8801-8805.  | 2.0  | 1         |
| 67 | Strong Metal–Support Interactions between Copper and Iron Oxide during the Highâ€Temperature<br>Waterâ€Gas Shift Reaction. Angewandte Chemie, 2019, 131, 9181-9185.  | 2.0  | 22        |
| 68 | Single-Site Vanadyl Species Isolated within Molybdenum Oxide Monolayers in Propane Oxidation. ACS<br>Catalysis, 2019, 9, 4875-4886.  | 11.2 | 28        |
| 69 | Electrochemical Surface Oxidation of Copper Studied by in Situ Grazing Incidence X-ray Diffraction.<br>Journal of Physical Chemistry C, 2019, 123, 13253-13262.  | 3.1  | 32        |
| 70 | Electronic and Dielectric Properties of MoV-Oxide (M1 Phase) under Alkane Oxidation Conditions.<br>Journal of Physical Chemistry C, 2019, 123, 13269-13282.  | 3.1  | 20        |
| 71 | Synthesis and Characterization of Agâ€Đelafossites Ag <i>B</i> O <sub>2</sub> ( <i>B</i> : Al, Ga, In) from a<br>Rapid Hydrothermal Process. European Journal of Inorganic Chemistry, 2019, 2019, 2319-2319.             | 2.0  | 1         |
| 72 | Synthesis and Characterization of Agâ€Delafossites Ag <i>B</i> O <sub>2</sub> ( <i>B</i> : Al, Ga, In) from a Rapid Hydrothermal Process. European Journal of Inorganic Chemistry, 2019, 2019, 2333-2345.                | 2.0  | 7         |

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 73 | Evolution of zincian malachite synthesis by low temperature co-precipitation and its catalytic impact<br>on the methanol synthesis. Applied Catalysis B: Environmental, 2019, 249, 218-226.   | 20.2 | 38        |
| 74 | In Situ X-ray Spectroscopy of the Electrochemical Development of Iridium Nanoparticles in Confined Electrolyte. Journal of Physical Chemistry C, 2019, 123, 9146-9152.  | 3.1  | 46        |
| 75 | Negative Charging of Au Nanoparticles during Methanol Synthesis from<br>CO <sub>2</sub> /H <sub>2</sub> on a Au/ZnO Catalyst: Insights from Operando IR and<br>Nearâ€Ambientâ€Pressure XPS and XAS Measurements. Angewandte Chemie - International Edition, 2019, 58,<br>10325-10329. | 13.8 | 67        |
| 76 | Low Reversible Capacity of Nitridated Titanium Electrical Terminals. Batteries, 2019, 5, 17.  | 4.5  | 1         |
| 77 | Supported Ag Nanoparticles and Clusters for CO Oxidation: Size Effects and Influence of the Silver–Oxygen Interactions. ACS Applied Nano Materials, 2019, 2, 2909-2920.   | 5.0  | 40        |
| 78 | Activating a Cu/ZnO : Al Catalyst – Much More than Reduction: Decomposition, Selfâ€Doping and<br>Polymorphism. ChemCatChem, 2019, 11, 1587-1592.  | 3.7  | 39        |
| 79 | Elucidation of artefacts in proton transfer reaction timeâ€ofâ€flight mass spectrometers. Journal of<br>Mass Spectrometry, 2019, 54, 987-1002.  | 1.6  | 7         |
| 80 | Ni Single Atom Catalysts for CO <sub>2</sub> Activation. Journal of the American Chemical Society, 2019, 141, 2451-2461.  | 13.7 | 291       |
| 81 | Oxygen Activation in Oxidative Coupling of Methane on Calcium Oxide. Journal of Physical Chemistry C, 2019, 123, 8018-8026.   | 3.1  | 16        |
| 82 | The Role of the Copper Oxidation State in the Electrocatalytic Reduction of CO <sub>2</sub> into Valuable Hydrocarbons. ACS Sustainable Chemistry and Engineering, 2019, 7, 1485-1492.  | 6.7  | 121       |
| 83 | Operando Electrical Conductivity and Complex Permittivity Study on Vanadia Oxidation Catalysts.<br>Journal of Physical Chemistry C, 2019, 123, 8005-8017.   | 3.1  | 17        |
| 84 | Phase Coexistence of Multiple Copper Oxides on AgCu Catalysts during Ethylene Epoxidation. ACS Catalysis, 2018, 8, 2286-2295.   | 11.2 | 34        |
| 85 | Poly(ionic liquid) binders as ionic conductors and polymer electrolyte interfaces for enhanced<br>electrochemical performance of water splitting electrodes. Sustainable Energy and Fuels, 2018, 2,<br>1446-1451.   | 4.9  | 15        |
| 86 | The Selective Species in Ethylene Epoxidation on Silver. ACS Catalysis, 2018, 8, 3844-3852.   | 11.2 | 62        |
| 87 | The Electro-Deposition/Dissolution of CuSO <sub>4</sub> Aqueous Electrolyte Investigated by <i>In Situ</i> Soft X-ray Absorption Spectroscopy. Journal of Physical Chemistry B, 2018, 122, 780-787.   | 2.6  | 26        |
| 88 | Influence of Steam on a Vanadyl Pyrophosphate Catalyst During Propane Oxidation. Journal of<br>Physical Chemistry B, 2018, 122, 695-704.  | 2.6  | 9         |
| 89 | Are multiple oxygen species selective in ethylene epoxidation on silver?. Chemical Science, 2018, 9, 990-998.   | 7.4  | 55        |
| 90 | A unique oxygen ligand environment facilitates water oxidation in hole-doped IrNiOx core–shell<br>electrocatalysts. Nature Catalysis, 2018, 1, 841-851.   | 34.4 | 424       |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 91  | LEED- <i>I</i> ( <i>V</i> ) Structure Analysis of the (7 × â^š3)rect SO <sub>4</sub> Phase on Ag(111):<br>Precursor to the Active Species of the Ag-Catalyzed Ethylene Epoxidation. Journal of Physical<br>Chemistry C, 2018, 122, 26998-27004. | 3.1  | 14        |
| 92  | Methanol Synthesis from Steel Mill Exhaust Gases: Challenges for the Industrial<br>Cu/ZnO/Al <sub>2</sub> O <sub>3</sub> Catalyst. Chemie-Ingenieur-Technik, 2018, 90, 1419-1429.   | 0.8  | 56        |
| 93  | In Situ Electrochemical Cells to Study the Oxygen Evolution Reaction by Near Ambient Pressure X-ray<br>Photoelectron Spectroscopy. Topics in Catalysis, 2018, 61, 2064-2084.  | 2.8  | 37        |
| 94  | A quasi in situ TEM grid reactor for decoupling catalytic gas phase reactions and analysis.<br>Ultramicroscopy, 2018, 195, 121-128.   | 1.9  | 14        |
| 95  | Operando Evidence for a Universal Oxygen Evolution Mechanism on Thermal and Electrochemical<br>Iridium Oxides. Journal of Physical Chemistry Letters, 2018, 9, 3154-3160.   | 4.6  | 121       |
| 96  | Formation Mechanism, Growth Kinetics, and Stability Limits of Graphene Adlayers in Metal atalyzed<br>CVD Growth. Advanced Materials Interfaces, 2018, 5, 1800255.   | 3.7  | 15        |
| 97  | Strong Metal Support Interaction as a Key Factor of Au Activation in CO Oxidation. ChemCatChem, 2018, 10, 3985-3989.  | 3.7  | 15        |
| 98  | The Project Carbon2Chem®. Chemie-Ingenieur-Technik, 2018, 90, 1365-1368.  | 0.8  | 60        |
| 99  | Operando Insights into CO Oxidation on Cobalt Oxide Catalysts by NAP-XPS, FTIR, and XRD. ACS Catalysis, 2018, 8, 8630-8641.   | 11.2 | 153       |
| 100 | The ESEM as In Situ Platform for the Study of Gas-Solid Interactions. Microscopy and Microanalysis, 2018, 24, 344-345.  | 0.4  | 1         |
| 101 | Investigations of Cu/Zn Oxalates from Aqueous Solution: Singleâ€Phase Precursors and Beyond.<br>Chemistry - A European Journal, 2018, 24, 15080-15088.  | 3.3  | 5         |
| 102 | <i>In Situ</i> Atomic-Scale Observation of Surface-Tension-Induced Structural Transformation of Ag-NiP <sub><i>x</i> /i&gt;</sub> Core–Shell Nanocrystals. ACS Nano, 2018, 12, 7197-7205.   | 14.6 | 13        |
| 103 | 50 Years of German Catalysis Meetings: From Twin Roots to a Joint Success Story. ChemCatChem, 2017, 9, 527-532.   | 3.7  | 1         |
| 104 | Highâ€Performance Supported Iridium Oxohydroxide Water Oxidation Electrocatalysts. ChemSusChem,<br>2017, 10, 1943-1957.   | 6.8  | 65        |
| 105 | Catalysisâ€4.0. ChemCatChem, 2017, 9, 533-541.  | 3.7  | 22        |
| 106 | Restructuring of silica supported vanadia during propane oxidative dehydrogenation studied by<br>combined synchrotron radiation based in situ soft X-ray absorption and photoemission. Journal of<br>Lithic Studies, 2017, 3, 104-111.          | 0.5  | 4         |
| 107 | Carbokatalyse in Flüssigphasenreaktionen. Angewandte Chemie, 2017, 129, 956-985.  | 2.0  | 37        |
| 108 | Standardized Benchmarking of Water Splitting Catalysts in a Combined Electrochemical Flow<br>Cell/Inductively Coupled Plasma–Optical Emission Spectrometry (ICP-OES) Setup. ACS Catalysis, 2017, 7,<br>3768-3778.                               | 11.2 | 73        |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 109 | Metastable Pd ↔ PdO Structures During High Temperature Methane Oxidation. Catalysis Letters, 2017,<br>147, 1095-1103.   | 2.6  | 44        |
| 110 | In situ observation of reactive oxygen species forming on oxygen-evolving iridium surfaces. Chemical Science, 2017, 8, 2143-2149.   | 7.4  | 258       |
| 111 | Carbonic acid monoethyl ester as a pure solid and its conformational isomerism in the gas-phase. RSC Advances, 2017, 7, 22222-22233.  | 3.6  | 11        |
| 112 | The Impact of the Bulk Structure on Surface Dynamics of Complex Mo–V-based Oxide Catalysts. ACS<br>Catalysis, 2017, 7, 3061-3071.   | 11.2 | 53        |
| 113 | Ammonia Decomposition and Synthesis over Multinary Magnesioferrites: Promotional Effect of Ga on<br>Fe Catalysts for the Decomposition Reaction. ChemCatChem, 2017, 9, 659-671.                               | 3.7  | 23        |
| 114 | Multi-Scale Red-Ox Dynamics of Active Metal Catalysts Revealed by a Combination of <i>In Situ</i> Scanning and Transmission Electron Microscopy. Microscopy and Microanalysis, 2017, 23, 922-923.             | 0.4  | 2         |
| 115 | Growth Dynamics, Stacking Sequence and Interlayer Coupling in Few-Layer Graphene Revealed by in Situ SEM. Microscopy and Microanalysis, 2017, 23, 1746-1747.  | 0.4  | 2         |
| 116 | Reactive Electrophilic O <sup>lâ^'</sup> Species Evidenced in Highâ€Performance Iridium Oxohydroxide<br>Water Oxidation Electrocatalysts. ChemSusChem, 2017, 10, 4786-4798.                                   | 6.8  | 49        |
| 117 | Isotope Studies in Oxidation of Propane over Vanadium Oxide. ChemCatChem, 2017, 9, 3434-3434.   | 3.7  | 3         |
| 118 | IR-Spectroscopic Study on the Interface of Cu-Based Methanol Synthesis Catalysts: Evidence for the<br>Formation of a ZnO Overlayer. Topics in Catalysis, 2017, 60, 1735-1743.                                 | 2.8  | 89        |
| 119 | Isotope Studies in Oxidation of Propane over Vanadium Oxide. ChemCatChem, 2017, 9, 3446-3455.   | 3.7  | 20        |
| 120 | Die mobilisierte Energiewende. Angewandte Chemie, 2017, 129, 11164-11167.   | 2.0  | 5         |
| 121 | Ethylene Epoxidation at the Phase Transition of Copper Oxides. Journal of the American Chemical Society, 2017, 139, 11825-11832.  | 13.7 | 42        |
| 122 | Identifying Key Structural Features of IrO <sub>x</sub> Water Splitting Catalysts. Journal of the<br>American Chemical Society, 2017, 139, 12093-12101.   | 13.7 | 179       |
| 123 | Methanol Synthesis from Industrial CO2 Sources: A Contribution to Chemical Energy Conversion.<br>Catalysis Letters, 2017, 147, 416-427.   | 2.6  | 102       |
| 124 | Carbocatalysis in Liquidâ€₽hase Reactions. Angewandte Chemie - International Edition, 2017, 56, 936-964.  | 13.8 | 209       |
| 125 | Eâ€Mobility and the Energy Transition. Angewandte Chemie - International Edition, 2017, 56, 11019-11022.  | 13.8 | 25        |
| 126 | Selective Alkane Oxidation by Manganese Oxide: Site Isolation of MnO <sub><i>x</i></sub> Chains at the Surface of MnWO <sub>4</sub> Nanorods. Angewandte Chemie - International Edition, 2016, 55, 4092-4096. | 13.8 | 39        |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 127 | The electronic structure of iridium and its oxides. Surface and Interface Analysis, 2016, 48, 261-273.  | 1.8  | 288       |
| 128 | Eutectic Syntheses of Graphitic Carbon with High Pyrazinic Nitrogen Content. Advanced Materials, 2016, 28, 1287-1294.   | 21.0 | 90        |
| 129 | The Dynamics of Active Metal Catalysts Revealed by In Situ Electron Microscopy. Microscopy and Microanalysis, 2016, 22, 4-5.  | 0.4  | 1         |
| 130 | The Dynamics of Active Metal Catalysts Revealed by In-Situ Electron Microscopy. Microscopy and Microanalysis, 2016, 22, 784-785.  | 0.4  | 2         |
| 131 | Monitoring the Dynamics of Heterogeneous Catalysts by Electron Microscopy. Microscopy and Microanalysis, 2016, 22, 736-737.   | 0.4  | 2         |
| 132 | Different routes to methanol: inelastic neutron scattering spectroscopy of adsorbates on supported copper catalysts. Physical Chemistry Chemical Physics, 2016, 18, 17253-17258.  | 2.8  | 26        |
| 133 | Bridging the Time Gap: A Copper/Zinc Oxide/Aluminum Oxide Catalyst for Methanol Synthesis Studied<br>under Industrially Relevant Conditions and Time Scales. Angewandte Chemie, 2016, 128, 12900-12904.                           | 2.0  | 36        |
| 134 | Bridging the Time Gap: A Copper/Zinc Oxide/Aluminum Oxide Catalyst for Methanol Synthesis Studied<br>under Industrially Relevant Conditions and Time Scales. Angewandte Chemie - International Edition,<br>2016, 55, 12708-12712. | 13.8 | 109       |
| 135 | Selective Oxidation: From a Still Immature Technology to the Roots of Catalysis Science. Topics in Catalysis, 2016, 59, 1461-1476.  | 2.8  | 44        |
| 136 | High-Temperature Stable Ni Nanoparticles for the Dry Reforming of Methane. ACS Catalysis, 2016, 6, 7238-7248.   | 11.2 | 116       |
| 137 | Investigating dry reforming of methane with spatial reactor profiles and particleâ€resolved CFD simulations. AICHE Journal, 2016, 62, 4436-4452.  | 3.6  | 76        |
| 138 | Higher Alcohol Synthesis Over Rh Catalysts: Conditioning of Rh/N-CNTs by Co and Mn Entrapped in the Support. Catalysis Letters, 2016, 146, 2417-2424.   | 2.6  | 11        |
| 139 | Acid–Base Properties of N-Doped Carbon Nanotubes: A Combined Temperature-Programmed Desorption,<br>X-ray Photoelectron Spectroscopy, and 2-Propanol Reaction Investigation. Chemistry of Materials,<br>2016, 28, 6826-6839.       | 6.7  | 95        |
| 140 | In Situ Graphene Growth Dynamics on Polycrystalline Catalyst Foils. Nano Letters, 2016, 16, 6196-6206.  | 9.1  | 62        |
| 141 | Reactive oxygen species in iridium-based OER catalysts. Chemical Science, 2016, 7, 6791-6795.   | 7.4  | 153       |
| 142 | Probing the Structure of a Water-Oxidizing Anodic Iridium Oxide Catalyst using Raman Spectroscopy.<br>ACS Catalysis, 2016, 6, 8098-8105.  | 11.2 | 104       |
| 143 | Promotion Mechanisms of Iron Oxide-Based High Temperature Water–Gas Shift Catalysts by Chromium and Copper. ACS Catalysis, 2016, 6, 4455-4464.  | 11.2 | 98        |
| 144 | Reverse water-gas shift reaction at the Cu/ZnO interface: Influence of the Cu/Zn ratio on structure-activity correlations. Applied Catalysis B: Environmental, 2016, 195, 104-111.  | 20.2 | 113       |

| #   | Article  | IF         | CITATIONS      |
|-----|--|------------|----------------|
| 145 | Cu,Zn-based catalysts for methanol synthesis: On the effect of calcination conditions and the part of residual carbonates. Applied Catalysis A: General, 2016, 516, 117-126. | 4.3        | 68             |
| 146 | Carbon: Eutectic Syntheses of Graphitic Carbon with High Pyrazinic Nitrogen Content (Adv. Mater.) Tj ETQq0 0 (   | ) rgBT/Ove | erlgck 10 Tf 5 |

| 147 | Synthesis of novel 2-d carbon materials: sp <sup>2</sup> carbon nanoribbon packing to form well-defined nanosheets. Materials Horizons, 2016, 3, 214-219.  | 12.2 | 28  |
|-----|--|------|-----|
| 148 | A unified view on heterogeneous and homogeneous catalysts through a combination of spectroscopy and quantum chemistry. Faraday Discussions, 2016, 188, 181-197.  | 3.2  | 37  |
| 149 | Modification of the carbide microstructure by N- and S-functionalization of the support in Mo <sub>x</sub> C/CNT catalysts. Catalysis Science and Technology, 2016, 6, 3468-3475.  | 4.1  | 10  |
| 150 | Strong metal-support interaction and alloying in Pd/ZnO catalysts for CO oxidation. Catalysis Today, 2016, 260, 21-31.   | 4.4  | 56  |
| 151 | Photoelectron Spectroscopy at the Graphene–Liquid Interface Reveals the Electronic Structure of an<br>Electrodeposited Cobalt/Graphene Electrocatalyst. Angewandte Chemie - International Edition, 2015,<br>54, 14554-14558. | 13.8 | 135 |
| 152 | Active Sites in Olefin Metathesis over Supported Molybdena Catalysts. ChemCatChem, 2015, 7, 4059-4065.   | 3.7  | 31  |
| 153 | Electrochemical Degradation of Multiwall Carbon Nanotubes at High Anodic Potential for Oxygen<br>Evolution in Acidic Media. ChemElectroChem, 2015, 2, 1929-1937.   | 3.4  | 90  |
| 154 | Oxidative Dehydrogenation on Nanocarbon: Intrinsic Catalytic Activity and Structure–Function<br>Relationships. Angewandte Chemie - International Edition, 2015, 54, 13682-13685.   | 13.8 | 76  |
| 155 | Hydrogenation of CO2 to methanol and CO on Cu/ZnO/Al2O3: Is there a common intermediate or not?.<br>Journal of Catalysis, 2015, 328, 43-48.  | 6.2  | 252 |
| 156 | Formation of a ZnO Overlayer in Industrial Cu/ZnO/Al <sub>2</sub> O <sub>3</sub> Catalysts Induced by Strong Metal–Support Interactions. Angewandte Chemie - International Edition, 2015, 54, 4544-4548.                     | 13.8 | 420 |
| 157 | Heterogeneous Catalysis. Angewandte Chemie - International Edition, 2015, 54, 3465-3520.   | 13.8 | 754 |
| 158 | The Revolution Continues: Energiewende 2.0. Angewandte Chemie - International Edition, 2015, 54, 4436-4439.  | 13.8 | 56  |
| 159 | The Mechanism of CO and CO <sub>2</sub> Hydrogenation to Methanol over Cuâ€Based Catalysts.<br>ChemCatChem, 2015, 7, 1105-1111.  | 3.7  | 424 |
| 160 | CO oxidation as a test reaction for strong metal–support interaction in nanostructured Pd/FeO powder catalysts. Applied Catalysis A: General, 2015, 502, 8-17.   | 4.3  | 43  |
| 161 | Direct Imaging of Octahedral Distortion in a Complex Molybdenum Vanadium Mixed Oxide.<br>Angewandte Chemie - International Edition, 2015, 54, 6828-6831.   | 13.8 | 25  |
| 169 | Electron Microscopy of Solid Catalysts—Transforming from a Challenge to a Toolbox. Chemical  | 47.7 | 200 |

| #   | Article  | IF                | CITATIONS    |
|-----|--|-------------------|--------------|
| 163 | Promoting Strong Metal Support Interaction: Doping ZnO for Enhanced Activity of Cu/ZnO:M (M = Al,) Tj ETQq1  | 1 0,78431<br>11.2 | 14 rgBT /Ove |
| 164 | Insights into the Electronic Structure of the Oxygen Species Active in Alkene Epoxidation on Silver.<br>ACS Catalysis, 2015, 5, 5846-5850.   | 11.2              | 71           |
| 165 | Methane Activation by Heterogeneous Catalysis. Catalysis Letters, 2015, 145, 23-39.  | 2.6               | 512          |
| 166 | Reactivity of mesoporous carbon against water – An in-situ XPS study. Carbon, 2014, 77, 175-183.   | 10.3              | 114          |
| 167 | Microstructural and Defect Analysis of Metal Nanoparticles in Functional Catalysts by Diffraction<br>and Electron Microscopy: The Cu/ZnO Catalyst for Methanol Synthesis. Topics in Catalysis, 2014, 57,<br>188-206.       | 2.8               | 33           |
| 168 | The influence of intercalated oxygen on the properties of graphene on polycrystalline Cu under various environmental conditions. Physical Chemistry Chemical Physics, 2014, 16, 25989-26003.                               | 2.8               | 108          |
| 169 | Counting of Oxygen Defects versus Metal Surface Sites in Methanol Synthesis Catalysts by Different<br>Probe Molecules. Angewandte Chemie - International Edition, 2014, 53, 7043-7047.                                     | 13.8              | 119          |
| 170 | Combined Experimental and Ab Initio Multireference Configuration Interaction Study of the Resonant<br>Inelastic X-ray Scattering Spectrum of CO <sub>2</sub> . Journal of Physical Chemistry C, 2014, 118,<br>20163-20175. | 3.1               | 36           |
| 171 | Synthesis and Characterisation of a Highly Active Cu/ZnO:Al Catalyst. ChemCatChem, 2014, 6, 2889-2897.   | 3.7               | 95           |
| 172 | Site-specific ionisation edge fine-structure of Rutile in the electron microscope. Micron, 2014, 63, 15-19.  | 2.2               | 3            |
| 173 | Investigation of Coking During Dry Reforming ofÂMethane by Means of Thermogravimetry.<br>Chemie-Ingenieur-Technik, 2014, 86, 1916-1924.  | 0.8               | 8            |
| 174 | Towards Physical Descriptors of Active and Selective Catalysts for the Oxidation of <i>n</i> â€Butane to Maleic Anhydride. ChemCatChem, 2013, 5, 2318-2329.  | 3.7               | 29           |
| 175 | <i>In Situ</i> Observations of the Atomistic Mechanisms of Ni Catalyzed Low Temperature Graphene Growth. ACS Nano, 2013, 7, 7901-7912.   | 14.6              | 163          |
| 176 | The model oxidation catalyst α-V2O5: insights from contactless in situ microwave permittivity and conductivity measurements. Applied Physics A: Materials Science and Processing, 2013, 112, 289-296.                      | 2.3               | 18           |
| 177 | Performance Improvement of Nanocatalysts by Promoter-Induced Defects in the Support Material:<br>Methanol Synthesis over Cu/ZnO:Al. Journal of the American Chemical Society, 2013, 135, 6061-6068.                        | 13.7              | 201          |
| 178 | The Role of the Oxide Component in the Development of Copper Composite Catalysts for Methanol Synthesis. Angewandte Chemie - International Edition, 2013, 52, 6536-6540.   | 13.8              | 180          |
| 179 | The Haber–Bosch Process Revisited: On the Real Structure and Stability of "Ammonia Iron―under<br>Working Conditions. Angewandte Chemie - International Edition, 2013, 52, 12723-12726.                                     | 13.8              | 489          |
| 180 | Observing Graphene Grow: Catalyst–Graphene Interactions during Scalable Graphene Growth on<br>Polycrystalline Copper. Nano Letters, 2013, 13, 4769-4778.   | 9.1               | 231          |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 181 | The effect of Al-doping on ZnO nanoparticles applied as catalyst support. Physical Chemistry Chemical Physics, 2013, 15, 1374-1381.   | 2.8  | 66        |
| 182 | Carbon‣upported Gold Nanocatalysts: Shape Effect in the Selective Glycerol Oxidation.<br>ChemCatChem, 2013, 5, 2717-2723.   | 3.7  | 54        |
| 183 | Inâ€Situ Study of Catalytic Processes: Neutron Diffraction of a Methanol Synthesis Catalyst at<br>Industrially Relevant Pressure. Angewandte Chemie - International Edition, 2013, 52, 5166-5170.   | 13.8 | 68        |
| 184 | How to Prepare a Good Cu/ZnO Catalyst or the Role of Solid State Chemistry for the Synthesis of<br>Nanostructured Catalysts. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2013, 639, 2683-2695.  | 1.2  | 137       |
| 185 | Die Rolle der Oxidkomponente für die Entwicklung von Kupferâ€Kompositâ€Katalysatoren zur Synthese<br>von Methanol. Angewandte Chemie, 2013, 125, 6664-6669.   | 2.0  | 33        |
| 186 | Radical detection in harsh environments by means of laser-induced fluorescence using a single bidirectional optical fiber. Applied Physics B: Lasers and Optics, 2012, 109, 19-26.  | 2.2  | 4         |
| 187 | Labeling and monitoring the distribution of anchoring sites on functionalized CNTs by atomic layer deposition. Journal of Materials Chemistry, 2012, 22, 7323.  | 6.7  | 44        |
| 188 | Thermolytic synthesis of graphitic boron carbon nitride from an ionic liquid precursor: mechanism, structure analysis and electronic properties. Journal of Materials Chemistry, 2012, 22, 23996.   | 6.7  | 69        |
| 189 | Comment on "Strongly-Bound Oxygen Species on Silver Surfaces: A Molybdenum Oxide<br>Contamination?― Journal of Physical Chemistry C, 2012, 116, 11408-11409.  | 3.1  | 2         |
| 190 | Complementary metal-oxide-semiconductor-compatible and self-aligned catalyst formation for carbon nanotube synthesis and interconnect fabrication. Journal of Applied Physics, 2012, 111, .   | 2.5  | 13        |
| 191 | The Active Site of Methanol Synthesis over Cu/ZnO/Al <sub>2</sub> O <sub>3</sub> Industrial Catalysts. Science, 2012, 336, 893-897.   | 12.6 | 2,018     |
| 192 | Topology of silica supported vanadium–titanium oxide catalysts for oxidative dehydrogenation of propane. Catalysis Science and Technology, 2012, 2, 1346.   | 4.1  | 35        |
| 193 | Quantitative High-Angle Annular Dark-Field Scanning Transmission Electron Microscope<br>(HAADF-STEM) Tomography and High-Resolution Electron Microscopy of Unsupported Intermetallic<br>GaPd <sub>2</sub> Catalysts. Journal of Physical Chemistry C, 2012, 116, 13343-13352. | 3.1  | 38        |
| 194 | Hierarchically aminated graphene honeycombs for electrochemical capacitive energy storage. Journal of Materials Chemistry, 2012, 22, 14076.   | 6.7  | 280       |
| 195 | Knowledge-based development of a nitrate-free synthesis route for Cu/ZnO methanol synthesis catalysts via formate precursors. Chemical Communications, 2011, 47, 1701.  | 4.1  | 62        |
| 196 | A Critical Assessment of Li/MgO-Based Catalysts for the Oxidative Coupling of Methane. Catalysis<br>Reviews - Science and Engineering, 2011, 53, 424-514.   | 12.9 | 205       |
| 197 | Morphology and Microstructure of Li/MgO Catalysts for the Oxidative Coupling of Methane.<br>ChemCatChem, 2011, 3, 949-959.  | 3.7  | 66        |
| 198 | A Novel Synthesis Route for Cu/ZnO/Al <sub>2</sub> O <sub>3</sub> Catalysts used in Methanol<br>Synthesis: Combining Continuous Consecutive Precipitation with Continuous Aging of the Precipitate.<br>ChemCatChem, 2011, 3, 189-199.   | 3.7  | 47        |

| #   | Article  | IF   | CITATIONS |
|-----|--|------|-----------|
| 199 | Synthesis of MoVTeNb Oxide Catalysts with Tunable Particle Dimensions. ChemCatChem, 2011, 3, 1597-1606.  | 3.7  | 45        |
| 200 | Active Sites for Propane Oxidation: Some Generic Considerations. Topics in Catalysis, 2011, 54, 627-638.   | 2.8  | 82        |
| 201 | Die Rolle der Chemie bei der Energiewende. Angewandte Chemie, 2011, 123, 6550-6553.  | 2.0  | 25        |
| 202 | Chemistry's Role in Regenerative Energy. Angewandte Chemie - International Edition, 2011, 50, 6424-6426.   | 13.8 | 66        |
| 203 | The Potential of Microstructural Optimization in Metal/Oxide Catalysts: Higher Intrinsic Activity of Copper by Partial Embedding of Copper Nanoparticles. ChemCatChem, 2010, 2, 816-818.   | 3.7  | 49        |
| 204 | The Role of Chemistry in the Energy Challenge. ChemSusChem, 2010, 3, 209-222.  | 6.8  | 222       |
| 205 | Dynamics of the MoVTeNb Oxide M1 Phase in Propane Oxidation. Journal of Physical Chemistry C, 2010, 114, 1912-1921.  | 3.1  | 92        |
| 206 | Oxidation Stability of Multiwalled Carbon Nanotubes for Catalytic Applications. Chemistry of Materials, 2010, 22, 4462-4470.   | 6.7  | 94        |
| 207 | A Study of the Influence of Composition on the Microstructural Properties of<br>ZnO/Al <sub>2</sub> O <sub>3</sub> Mixed Oxides. European Journal of Inorganic Chemistry, 2009,<br>2009, 910-921.  | 2.0  | 32        |
| 208 | Minerals as Model Compounds for Cu/ZnO Catalyst Precursors: Structural and Thermal Properties<br>and IR Spectra of Mineral and Synthetic (Zincian) Malachite, Rosasite and Aurichalcite and a Catalyst<br>Precursor Mixture. European Journal of Inorganic Chemistry, 2009, 2009, 1347-1357. | 2.0  | 108       |
| 209 | Surface Chemistry of Ag Particles: Identification of Oxide Species by Aberration orrected TEM and by DFT Calculations. Angewandte Chemie - International Edition, 2008, 47, 5005-5008.   | 13.8 | 97        |
| 210 | Fuel for thought. Nature Materials, 2008, 7, 772-774.  | 27.5 | 47        |
| 211 | Palladium–gallium intermetallic compounds for the selective hydrogenation of acetylenePart I:<br>Preparation and structural investigation under reaction conditions. Journal of Catalysis, 2008, 258,<br>210-218.  | 6.2  | 269       |
| 212 | <i>In Situ</i> X-Ray Photoelectron Spectroscopy Studies of Gas-Solid Interfaces at Near-Ambient<br>Conditions. MRS Bulletin, 2007, 32, 1022-1030.  | 3.5  | 180       |
| 213 | Commercial Fe- or Co-containing carbon nanotubes as catalysts for NH3decomposition. Chemical Communications, 2007, , 1916-1918.  | 4.1  | 119       |
| 214 | Nanocarbon as Robust Catalyst: Mechanistic Insight into Carbonâ€Mediated Catalysis. Angewandte<br>Chemie - International Edition, 2007, 46, 7319-7323.   | 13.8 | 226       |
| 215 | Role of Lattice Strain and Defects in Copper Particles on the Activity of<br>Cu/ZnO/Al <sub>2</sub> O <sub>3</sub> Catalysts for Methanol Synthesis. Angewandte Chemie -<br>International Edition, 2007, 46, 7324-7327.  | 13.8 | 223       |
| 216 | Mechanism of ZrTiO4 Synthesis by Mechanochemical Processing of TiO2 and ZrO2. Journal of the American Ceramic Society, 2006, 89, 060427083300025-???.  | 3.8  | 20        |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 217 | The Microstructure of Copper Zinc Oxide Catalysts: Bridging the Materials Gap. Angewandte Chemie -<br>International Edition, 2005, 44, 4704-4707.   | 13.8 | 123       |
| 218 | Hierarchically Structured Carbon: Synthesis of Carbon Nanofibers Nested inside or Immobilized onto<br>Modified Activated Carbon. Angewandte Chemie - International Edition, 2005, 44, 5488-5492.                      | 13.8 | 82        |
| 219 | Wet-Chemical Assembly of Carbon Tube-in-Tube Nanostructures. Small, 2004, 1, 107-110.   | 10.0 | 15        |
| 220 | Nanocatalysis: Mature Science Revisited or Something Really New?. Angewandte Chemie - International Edition, 2004, 43, 1628-1637.   | 13.8 | 487       |
| 221 | An interfactant for metal oxide heteroepitaxy: Growth of dispersed ZrO2(111) films on FeO(111) precovered Ru(0001). Physical Chemistry Chemical Physics, 2004, 6, 205-208.  | 2.8  | 8         |
| 222 | Crystallographic shear defect in molybdenum oxides: Structure and TEM of molybdenum sub-oxides<br>Mo18O52 and Mo8O23. Crystal Research and Technology, 2003, 38, 153-159.   | 1.3  | 32        |
| 223 | Katalytische Ammoniaksynthese – eine "unendliche Geschichte�. Angewandte Chemie, 2003, 115,<br>2050-2055.   | 2.0  | 152       |
| 224 | Relations between Synthesis and Microstructural Properties of Copper/Zinc Hydroxycarbonates.<br>Chemistry - A European Journal, 2003, 9, 2039-2052.   | 3.3  | 202       |
| 225 | Continuous Coprecipitation of Catalysts in a Micromixer: Nanostructured Cu/ZnO Composite for the Synthesis of Methanol. Angewandte Chemie - International Edition, 2003, 42, 3815-3817.                               | 13.8 | 84        |
| 226 | Catalytic Synthesis of Ammonia—A "Never-Ending Story�. Angewandte Chemie - International Edition,<br>2003, 42, 2004-2008.   | 13.8 | 956       |
| 227 | Local Structure of Nanoscopic Materials:  V2O5 Nanorods and Nanowires. Nano Letters, 2003, 3, 1131-1134.  | 9.1  | 170       |
| 228 | Self-Assembled Gold Nanoparticle/Alkanedithiol Films:Â Preparation, Electron Microscopy,<br>XPS-Analysis, Charge Transport, and Vapor-Sensing Propertiesâ€. Journal of Physical Chemistry B, 2003,<br>107, 7406-7413. | 2.6  | 285       |
| 229 | Vacuum compatible flowâ€cell for highâ€quality in situ and operando soft Xâ€ray photonâ€in–photonâ€out<br>spectroelectrochemical studies of energy materials. Electrochemical Science Advances, 0, , .                | 2.8  | 4         |