Libor Kovarik

List of Publications by Year
in descending order

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190 papers	11,327 citations	34016 52 h-index	31759 101 g-index
196 all docs	196 docs citations	196 times ranked	13778 citing authors

#	Article	IF	Citations
1	Palladium/Ferrierite versus Palladium/SSZâ€13 Passive NOx Adsorbers: Adsorbateâ€Controlled Location of Atomically Dispersed Palladium(II) in Ferrierite Determines High Activity and Stability**. Angewandte Chemie - International Edition, 2022, 61, .	7.2	24
2	Accelerated beta radiation aging of interlayer titanium nitride in gallium nitride contacts. MRS Communications, 2022, 12, 24.	0.8	0
3	CO oxidation on MgAl₂O₄ supported Ir_n: activation of lattice oxygen in the subnanometer regime and emergence of nuclearity-activity volcano. Journal of Materials Chemistry A, 2022, 10, 4266-4278.	5.2	4
4	Effects of high-temperature CeO₂ calcination on the activity of Pt/CeO₂ catalysts for oxidation of unburned hydrocarbon fuels. Catalysis Science and Technology, 2022, 12, 2462-2470.	2.1	5
5	Deciphering the Distribution and Crystal-Chemical Environment of Arsenic, Lead, Silica, Phosphorus, Tin, and Zinc in a Porous Ferrihydrite Grain Using Transmission Electron Microscopy and Atom Probe Tomography. ACS Earth and Space Chemistry, 2022, 6, 558-570.	1.2	4
6	Disordered, Sub-Nanometer Ru Structures on CeO₂ are Highly Efficient and Selective Catalysts in Polymer Upcycling by Hydrogenolysis. ACS Catalysis, 2022, 12, 4618-4627.	5.5	54
7	Microstructural evolution and precipitation in Î³-LiAlO2 during ion irradiation. Journal of Applied Physics, 2022, 131, .	1.1	6
8	Structure sensitivity of n-butane hydrogenolysis on supported Ir catalysts. Journal of Catalysis, 2021, 394, 376-386.	3.1	11
9	The superior hydrothermal stability of Pd/SSZ-39 in low temperature passive NOx adsorption (PNA) and methane combustion. Applied Catalysis B: Environmental, 2021, 280, 119449.	10.8	56
10	Solvent manipulation of the pre-reduction metalâ€“ligand complex and particle-ligand binding for controlled synthesis of Pd nanoparticles. Nanoscale, 2021, 13, 206-217.	2.8	18
11	Understanding the Deactivation of Agâ^'ZrO₂/SiO₂ Catalysts for the Singleâ€step Conversion of Ethanol to Butenes. ChemCatChem, 2021, 13, 999-1008.	1.8	11
12	High temperature transition aluminas in Î´-Al2O3/Î¸-Al2O3 stability range: Review. Journal of Catalysis, 2021, 393, 357-368.	3.1	55
13	Towards data-driven next-generation transmission electron microscopy. Nature Materials, 2021, 20, 274-279.	13.3	130
14	Economizing on Precious Metals in Threeâ€Way Catalysts: Thermally Stable and Highly Active Singleâ€Atom Rhodium on Ceria for NO Abatement under Dry and Industrially Relevant Conditions**. Angewandte Chemie - International Edition, 2021, 60, 391-398.	7.2	51
15	Economizing on Precious Metals in Threeâ€Way Catalysts: Thermally Stable and Highly Active Singleâ€Atom Rhodium on Ceria for NO Abatement under Dry and Industrially Relevant Conditions**. Angewandte Chemie, 2021, 133, 395-402.	1.6	10
16	Catalytic decomposition of methane into hydrogen and high-value carbons: combined experimental and DFT computational study. Catalysis Science and Technology, 2021, 11, 4911-4921.	2.1	24
17	Direct observation and assessment of phase states of ambient and lab-generated sub-micron particles upon humidification. RSC Advances, 2021, 11, 15264-15272.	1.7	13
18	Uncovering the active sites and demonstrating stable catalyst for the cost-effective conversion of ethanol to 1-butanol. Green Chemistry, 2021, 23, 8030-8039.	4.6	7

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19	Elemental iron: reduction of pertechnetate in the presence of silica and periodicity of precipitated nano-structures. Environmental Science: Nano, 2021, 8, 97-109.	2.2	2
20	Probing Acidâ€“Base Properties of Anatase TiO₂ Nanoparticles with Dominant {001} and {101} Facets Using Methanol Chemisorption and Surface Reactions. Journal of Physical Chemistry C, 2021, 125, 3988-4000.	1.5	23
21	Structure sensitivity and its effect on methane turnover and carbon co-product selectivity in thermocatalytic decomposition of methane over supported Ni catalysts. Applied Catalysis A: General, 2021, 611, 117967.	2.2	23
22	Onset of High Methane Combustion Rates over Supported Palladium Catalysts: From Isolated Pd Cations to PdO Nanoparticles. Jacs Au, 2021, 1, 396-408.	3.6	37
23	Conversion of ethanol to 1,3â€“butadiene over Agâ€“ZrO2/SiO2 catalysts: The role of surface interfaces. Journal of Energy Chemistry, 2021, 54, 7-15.	7.1	21
24	Microbe-Encapsulated Silica Gel Biosorbents for Selective Extraction of Scandium from Coal Byproducts. Environmental Science & Technology, 2021, 55, 6320-6328.	4.6	12
25	Environment of Metalâ€“Oâ€“Fe Bonds Enabling High Activity in CO₂ Reduction on Single Metal Atoms and on Supported Nanoparticles. Journal of the American Chemical Society, 2021, 143, 5540-5549.	6.6	54
26	Precise Identification and Characterization of Catalytically Active Sites on the Surface of Î³â€Alumina**. Angewandte Chemie - International Edition, 2021, 60, 17522-17530.	7.2	26
27	Precise Identification and Characterization of Catalytically Active Sites on the Surface of Î³â€Alumina**. Angewandte Chemie, 2021, 133, 17663-17671.	1.6	15
28	In-situ Observation of Ordering Transformations in Î¸-Al₂O₃. Microscopy and Microanalysis, 2021, 27, 1956-1957.	0.2	1
29	Elucidating the Active Site and the Role of Alkali Metals in Selective Hydrodeoxygenation of Phenols over Ironâ€Carbideâ€based Catalyst. ChemSusChem, 2021, 14, 4546-4555.	3.6	8
30	Temperature-Dependent Communication between Pt/Al₂O₃ Catalysts and Anatase TiO₂ Dilutant: the Effects of Metal Migration and Carbon Transfer on the Reverse Waterâ€“Gas Shift Reaction. ACS Catalysis, 2021, 11, 12058-12067.	5.5	16
31	Understanding the microstructural stability in a Î³â€²-strengthened Ni-Fe-Cr-Al-Ti alloy. Journal of Alloys and Compounds, 2021, 886, 161207.	2.8	1
32	Biomimetic CO oxidation below â^'100â€‰Â°C by a nitrate-containing metal-free microporous system. Nature Communications, 2021, 12, 6033.	5.8	8
33	Palladium/Zeolite Low Temperature Passive NOx Adsorbers (PNA): Structure-Adsorption Property Relationships for Hydrothermally Aged PNA Materials. Emission Control Science and Technology, 2020, 6, 126-138.	0.8	38
34	Ni5Ga3 catalysts for CO2 reduction to methanol: Exploring the role of Ga surface oxidation/reduction on catalytic activity. Applied Catalysis B: Environmental, 2020, 267, 118369.	10.8	68
35	Stabilization of Super Electrophilic Pd⁺² Cations in Small-Pore SSZ-13 Zeolite. Journal of Physical Chemistry C, 2020, 124, 309-321.	1.5	67
36	Single-Step Conversion of Ethanol to n-Butene over Ag-ZrO₂/SiO₂ Catalysts. ACS Catalysis, 2020, 10, 10602-10613.	5.5	34

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37	Copper-zirconia interfaces in UiO-66 enable selective catalytic hydrogenation of CO2 to methanol. Nature Communications, 2020, 11, 5849.	5.8	86
38	Using Atom Dynamics to Map the Defect Structure Around an Impurity in Nano-Hematite. Journal of Physical Chemistry Letters, 2020, 11, 10396-10400.	2.1	9
39	Promoting the Cleavage of Câ€“O Bonds at the Interface between a Metal Oxide Cluster and a Co(0001) Support. ACS Catalysis, 2020, 10, 14722-14731.	5.5	8
40	Crystallographic Analysis of Transition Al2O3 Phases Under the Constrains of Complex Intergrowth and Disorder. Microscopy and Microanalysis, 2020, 26, 1532-1534.	0.2	0
41	Quantification of Highâ€Temperature Transition Al₂O₃ and Their Phase Transformations**. Angewandte Chemie, 2020, 132, 21903-21911.	1.6	3
42	Quantification of Highâ€Temperature Transition Al₂O₃ and Their Phase Transformations**. Angewandte Chemie - International Edition, 2020, 59, 21719-21727.	7.2	28
43	Nanoscale observations of Fe(<scp>ii</scp>)-induced ferrihydrite transformation. Environmental Science: Nano, 2020, 7, 2953-2967.	2.2	21
44	Macro to Nanoscale Approaches to Study Mineral Transformations at the Liquid, Organic, Biological Interface.. Microscopy and Microanalysis, 2020, 26, 1568-1569.	0.2	0
45	Longâ€term accumulation, depth distribution, and speciation of silver nanoparticles in biosolidsâ€amended soils. Journal of Environmental Quality, 2020, 49, 1679-1689.	1.0	6
46	Surface engineering of earth-abundant Fe catalysts for selective hydrodeoxygenation of phenolics in liquid phase. Chemical Science, 2020, 11, 5874-5880.	3.7	19
47	Direct Catalytic Conversion of Ethanol to C₅₊ Ketones: Role of Pdâ€“Zn Alloy on Catalytic Activity and Stability. Angewandte Chemie - International Edition, 2020, 59, 14550-14557.	7.2	14
48	Inverse iron oxide/metal catalysts from galvanic replacement. Nature Communications, 2020, 11, 3269.	5.8	31
49	Inâ€…Situ Dispersion of Palladium on TiO₂ During Reverse Waterâ€“Gas Shift Reaction: Formation of Atomically Dispersed Palladium. Angewandte Chemie, 2020, 132, 17810-17816.	1.6	18
50	Inâ€…Situ Dispersion of Palladium on TiO₂ During Reverse Waterâ€“Gas Shift Reaction: Formation of Atomically Dispersed Palladium. Angewandte Chemie - International Edition, 2020, 59, 17657-17663.	7.2	51
51	Redox-Based Electrochemical Affinity Sensor for Detection of Aqueous Pertechnetate Anion. ACS Sensors, 2020, 5, 674-685.	4.0	6
52	Single-Facet Dominant Anatase TiO₂ (101) and (001) Model Catalysts to Elucidate the Active Sites for Alkanol Dehydration. ACS Catalysis, 2020, 10, 4268-4279.	5.5	32
53	Kinetics and Mechanisms of ZnO to ZIFâ€8 Transformations in Supercritical CO 2 Revealed by Inâ€…Situ Xâ€ray Diffraction. ChemSusChem, 2020, 13, 2602-2612.	3.6	11
54	Influence of Ag metal dispersion on the thermal conversion of ethanol to butadiene over Ag-ZrO2/SiO2 catalysts. Journal of Catalysis, 2020, 386, 30-38.	3.1	22

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55	Calcareous organic matter coatings sequester siderophores in alkaline soils. Science of the Total Environment, 2020, 724, 138250.	3.9	14
56	GaN Nuclear Batteries: Radiation Modeling for the Accelerated Contact Exposure of Betavoltaics. MRS Advances, 2020, 5, 1483-1489.	0.5	2
57	Direct Observation of Zirconium Alloy Oxidation at the Nanoscale. Microscopy and Microanalysis, 2019, 25, 318-319.	0.2	0
58	Silicate stabilisation of colloidal UO2 produced by uranium metal corrosion. Journal of Nuclear Materials, 2019, 526, 151751.	1.3	10
59	Facet-selective adsorption of Fe(<scp>ii</scp>) on hematite visualized by nanoscale secondary ion mass spectrometry. Environmental Science: Nano, 2019, 6, 2429-2440.	2.2	10
60	Characterization of slag and metal from uranium bomb reduction: Morphology, speciation, and the search for thorium. Materials Characterization, 2019, 158, 109948.	1.9	5
61	Multimodal Atomic Scale Characterization of Structural and Compositional Changes During Shear Deformation of Materials. Microscopy and Microanalysis, 2019, 25, 2510-2511.	0.2	0
62	Mineral-Organic Interface on Clay Minerals: Imaging and Analytical Approaches. Microscopy and Microanalysis, 2019, 25, 2438-2439.	0.2	1
63	Microbe Encapsulation for Selective Rare-Earth Recovery from Electronic Waste Leachates. Environmental Science & Technology, 2019, 53, 13888-13897.	4.6	45
64	Structure Sensitivity of Acetylene Semi-Hydrogenation on Pt Single Atoms and Subnanometer Clusters. ACS Catalysis, 2019, 9, 11030-11041.	5.5	111
65	A versatile approach for quantification of surface site fractions using reaction kinetics: The case of CO oxidation on supported Ir single atoms and nanoparticles. Journal of Catalysis, 2019, 378, 121-130.	3.1	49
66	Cr(III) Adsorption by Cluster Formation on Boehmite Nanoplates in Highly Alkaline Solution. Environmental Science & Technology, 2019, 53, 11043-11055.	4.6	42
67	The role of nanoparticle size and ligand coverage in size focusing of colloidal metal nanoparticles. Nanoscale Advances, 2019, 1, 4052-4066.	2.2	61
68	Revisiting the Growth Mechanism of Hierarchical Semiconductor Nanostructures: The Role of Secondary Nucleation in Branch Formation. Journal of Physical Chemistry Letters, 2019, 10, 6827-6834.	2.1	20
69	Electron transfer between sorbed Fe(II) and structural Fe(III) in smectites and its effect on nitrate-dependent iron oxidation by Pseudogulbenkiania sp. strain 2002. Geochimica Et Cosmochimica Acta, 2019, 265, 132-147.	1.6	23
70	Methane and Ethane Steam Reforming over MgAl2O4-Supported Rh and Ir Catalysts: Catalytic Implications for Natural Gas Reforming Application. Catalysts, 2019, 9, 801.	1.6	23
71	Singleâ€step Conversion of Methyl Ethyl Ketone to Olefins over Zn x Zr y O z Catalysts in Water. ChemCatChem, 2019, 11, 3393-3400.	1.8	7
72	Competing Mechanisms in CO Hydrogenation over Co-MnO_x Catalysts. ACS Catalysis, 2019, 9, 5603-5612.	5.5	36

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73	Crystallographic and compositional analysis of impurity phase U2MoSi2C in UMo alloys. Journal of Nuclear Materials, 2019, 519, 287-291.	1.3	11
74	Tuning Pt-CeO2 interactions by high-temperature vapor-phase synthesis for improved reducibility of lattice oxygen. Nature Communications, 2019, 10, 1358.	5.8	302
75	Structural Intergrowth in Î´-Al₂O₃. Journal of Physical Chemistry C, 2019, 123, 9454-9460.	1.5	14
76	Reactivity of redox cycled Fe-bearing subsurface sediments towards hexavalent chromium reduction. Geochimica Et Cosmochimica Acta, 2019, 252, 88-106.	1.6	37
77	Rate enhancement by Cu in Ni_xCu_{1â^'x}/ZrO₂ bimetallic catalysts for hydrodeoxygenation of stearic acid. Catalysis Science and Technology, 2019, 9, 2620-2629.	2.1	22
78	Stabilizing High Metal Loadings of Thermally Stable Platinum Single Atoms on an Industrial Catalyst Support. ACS Catalysis, 2019, 9, 3978-3990.	5.5	233
79	Visualizing the iron atom exchange front in the Fe(II)-catalyzed recrystallization of goethite by atom probe tomography. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 2866-2874.	3.3	52
80	Catalytic activation of ethylene Câ€“H bonds on uniform d⁸ Ir(<scp>i</scp>) and Ni(<scp>ii</scp>) cations in zeolites: toward molecular level understanding of ethylene polymerization on heterogeneous catalysts. Catalysis Science and Technology, 2019, 9, 6570-6576.	2.1	20
81	Identification of the active complex for CO oxidation over single-atom Ir-on-MgAl2O4 catalysts. Nature Catalysis, 2019, 2, 149-156.	16.1	222
82	Palladium/Beta zeolite passive NOx adsorbers (PNA): Clarification of PNA chemistry and the effects of CO and zeolite crystallite size on PNA performance. Applied Catalysis A: General, 2019, 569, 141-148.	2.2	81
83	Surface speciation and interactions between adsorbed chloride and water on cerium dioxide. Journal of Solid State Chemistry, 2018, 262, 16-25.	1.4	5
84	WO supported on Î³-Al2O3 with different morphologies as model catalysts for alkanol dehydration. Journal of Catalysis, 2018, 363, 1-8.	3.1	20
85	Synthesis of nanometer-sized fayalite and magnesium-iron(II) mixture olivines. Journal of Colloid and Interface Science, 2018, 515, 129-138.	5.0	19
86	Coupling of Methane to Ethane, Ethylene, and Aromatics over Nickel on Ceriaâ€“Zirconia at Low Temperatures. ChemCatChem, 2018, 10, 2700-2708.	1.8	21
87	Molecular Level Understanding of How Oxygen and Carbon Monoxide Improve NO_x Storage in Palladium/SSZ-13 Passive NO_x Adsorbers: The Role of NO⁺ and Pd(II)(CO)(NO) Species. Journal of Physical Chemistry C, 2018, 122, 10820-10827.	1.5	101
88	Characterization of CoCu- and CoMn-Based Catalysts for the Fischerâ€“Tropsch Reaction Toward Chain-Lengthened Oxygenates. Topics in Catalysis, 2018, 61, 1016-1023.	1.3	10
89	Grain boundary engineering to control the discontinuous precipitation in multicomponent U10Mo alloy. Acta Materialia, 2018, 151, 181-190.	3.8	43
90	Effects of citrate on hexavalent chromium reduction by structural Fe(II) in nontronite. Journal of Hazardous Materials, 2018, 343, 245-254.	6.5	41

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91	Imaging the Optical Fields of Functionalized Silver Nanowires through Molecular TERS. Journal of Physical Chemistry Letters, 2018, 9, 7105-7109.	2.1	26
92	Achieving Atomic Dispersion of Highly Loaded Transition Metals in Smallâ€Pore Zeolite SSZâ€13: Highâ€Capacity and Highâ€Efficiency Lowâ€Temperature CO and Passive NO_x Adsorbers. Angewandte Chemie - International Edition, 2018, 57, 16672-16677.	7.2	129
93	Accessing crystalâ€“crystal interaction forces with oriented nanocrystal atomic force microscopy probes. Nature Protocols, 2018, 13, 2005-2030.	5.5	12
94	Effect of the SiO2 support on the catalytic performance of Ag/ZrO2/SiO2 catalysts for the single-bed production of butadiene from ethanol. Applied Catalysis B: Environmental, 2018, 236, 576-587.	10.8	70
95	Structural identification of ZnxZryOz catalysts for Cascade aldolization and self-deoxygenation reactions. Applied Catalysis B: Environmental, 2018, 234, 337-346.	10.8	43
96	Ligand-Mediated Nucleation and Growth of Palladium Metal Nanoparticles. Journal of Visualized Experiments, 2018, , .	0.2	14
97	Controlling the structure and ferroic properties of strained epitaxial NiTiO3 thin films on sapphire by post-deposition annealing. Thin Solid Films, 2018, 662, 47-53.	0.8	3
98	Heating-Induced Transformations of Atmospheric Particles: Environmental Transmission Electron Microscopy Study. Analytical Chemistry, 2018, 90, 9761-9768.	3.2	7
99	Phase transformation of metastable discontinuous precipitation products to equilibrium phases in U10Mo alloys. Scripta Materialia, 2018, 156, 70-74.	2.6	24
100	Implementing Sparse Sub-Sampling Methods for Low-Dose/High Speed STEM. Microscopy and Microanalysis, 2018, 24, 1952-1953.	0.2	2
101	Environmental Transmission Electron Microscopy of Individual Atmospheric Particles from the North Atlantic. Microscopy and Microanalysis, 2018, 24, 396-397.	0.2	5
102	Irradiation effects and hydrogen behavior in H2+ and He+ implanted Î³-LiAlO2 single crystals. Journal of Nuclear Materials, 2017, 484, 374-381.	1.3	29
103	Surface enrichment of Pt in stable Pt-Ir nano-alloy particles on MgAl2O4 spinel in oxidizing atmosphere. Catalysis Communications, 2017, 93, 57-61.	1.6	5
104	Transformation of Active Sites in Fe/SSZ-13 SCR Catalysts during Hydrothermal Aging: A Spectroscopic, Microscopic, and Kinetics Study. ACS Catalysis, 2017, 7, 2458-2470.	5.5	89
105	Stabilization and transformation of Pt nanocrystals supported on ZnAl2O4spinel. RSC Advances, 2017, 7, 3282-3286.	1.7	7
106	Thermally Stable and Regenerable Platinumâ€“Tin Clusters for Propane Dehydrogenation Prepared by Atom Trapping on Ceria. Angewandte Chemie - International Edition, 2017, 56, 8986-8991.	7.2	262
107	Thermally Stable and Regenerable Platinumâ€“Tin Clusters for Propane Dehydrogenation Prepared by Atom Trapping on Ceria. Angewandte Chemie, 2017, 129, 9114-9119.	1.6	49
108	Coupled Lattice Polarization and Ferromagnetism in Multiferroic NiTiO₃ Thin Films. ACS Applied Materials & Interfaces, 2017, 9, 21879-21890.	4.0	18

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109	Imaging Electrochemical Processes in Li Batteries by Operando STEM. Microscopy and Microanalysis, 2017, 23, 1970-1971.	0.2	1
110	Grain Growth in Nanocrystalline Mg-Al Thin Films. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 6118-6125.	1.1	7
111	Manganese-calcium intermixing facilitates heteroepitaxial growth at the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.gif" overflow="scroll"><mml:mfenced open="(" close=")"><mml:mrow><mml:mn>10</mml:mn><mml:mover accent="false"><mml:mn>1</mml:mn><mml:mo>Â¯</mml:mo></mml:mover><mml:mn>4</mml:mn></mml:mrow></mml:mfenced> /r calcite-water interface. Chemical Geology, 2017, 470, 152-163.	1.4	17
112	Reduced Magnetism in Coreâ€“Shell Magnetite@MOF Composites. Nano Letters, 2017, 17, 6968-6973.	4.5	47
113	Toward Rational Design of Cu/SSZ-13 Selective Catalytic Reduction Catalysts: Implications from Atomic-Level Understanding of Hydrothermal Stability. ACS Catalysis, 2017, 7, 8214-8227.	5.5	278
114	Formation of Oxygen Radical Sites on MoVNbTeOx by Cooperative Electron Redistribution. Journal of the American Chemical Society, 2017, 139, 12342-12345.	6.6	41
115	Steam Reforming of Acetic Acid over Co-Supported Catalysts: Coupling Ketonization for Greater Stability. ACS Sustainable Chemistry and Engineering, 2017, 5, 9136-9149.	3.2	25
116	Optical Properties of Airborne Soil Organic Particles. ACS Earth and Space Chemistry, 2017, 1, 511-521.	1.2	14
117	Colloidal nanoparticle size control: experimental and kinetic modeling investigation of the ligandâ€“metal binding role in controlling the nucleation and growth kinetics. Nanoscale, 2017, 9, 13772-13785.	2.8	137
118	Low-Temperature Pd/Zeolite Passive NO_x Adsorbers: Structure, Performance, and Adsorption Chemistry. Journal of Physical Chemistry C, 2017, 121, 15793-15803.	1.5	178
119	Conversion of Methane into Methanol and Ethanol over Nickel Oxide on Ceriaâ€“Zirconia Catalysts in a Single Reactor. Angewandte Chemie - International Edition, 2017, 56, 13876-13881.	7.2	44
120	Activation of surface lattice oxygen in single-atom Pt/CeO ₂ for low-temperature CO oxidation. Science, 2017, 358, 1419-1423.	6.0	1,114
121	Implementing Sub-sampling Methods for Low-Dose (Scanning) Transmission Electron Microscopy (S/TEM). Microscopy and Microanalysis, 2017, 23, 82-83.	0.2	2
122	Tc(VII) and Cr(VI) Interaction with Naturally Reduced Ferruginous Smectite from a Redox Transition Zone. Environmental Science & Technology, 2017, 51, 9042-9052.	4.6	38
123	Controlling the Reaction Process in Operando STEM by Pixel Sub-Sampling. Microscopy and Microanalysis, 2017, 23, 98-99.	0.2	1
124	Manipulation and Immobilization of Nanostructures for In-situ STEM. Microscopy and Microanalysis, 2017, 23, 942-943.	0.2	1
125	Imaging and Analytical Approaches for Characterization of Soil Mineral Weathering. Microscopy and Microanalysis, 2017, 23, 2172-2173.	0.2	1
126	Compressive STEM-EELS. Microscopy and Microanalysis, 2016, 22, 560-561.	0.2	8

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127	Correlative Imaging and Spectroscopy of Particles in Liquid. Microscopy and Microanalysis, 2016, 22, 220-221.	0.2	0
128	Revealing the Working Active Sites of M1 phase for Ethane Oxidation. Microscopy and Microanalysis, 2016, 22, 790-791.	0.2	1
129	Airborne soil organic particles generated byÂprecipitation. Nature Geoscience, 2016, 9, 433-437.	5.4	71
130	Effect of Water Vapor, Temperature, and Rapid Annealing on Formamidinium Lead Triiodide Perovskite Crystallization. ACS Energy Letters, 2016, 1, 155-161.	8.8	27
131	Inorganic tin aluminophosphate nanocomposite for reductive separation of pertechnetate. Environmental Science: Nano, 2016, 3, 1003-1013.	2.2	24
132	RedOx-controlled sorption of iodine anions by hydrotalcite composites. RSC Advances, 2016, 6, 76042-76055.	1.7	23
133	Rupturing of Biological Spores As a Source of Secondary Particles in Amazonia. Environmental Science & Technology, 2016, 50, 12179-12186.	4.6	46
134	Compressive Sensing in Microscopy: a Tutorial. Microscopy and Microanalysis, 2016, 22, 2084-2085.	0.2	3
135	Steam reforming of fast pyrolysis-derived aqueous phase oxygenates over Co, Ni, and Rh metals supported on MgAl2O4. Catalysis Today, 2016, 269, 166-174.	2.2	43
136	Steam reforming of hydrocarbons from biomass-derived syngas over MgAl2O4-supported transition metals and bimetallic IrNi catalysts. Applied Catalysis B: Environmental, 2016, 184, 142-152.	10.8	46
137	Conversion of syngas-derived C2+ mixed oxygenates to C3â€“C5 olefins over ZnxZryOz mixed oxide catalysts. Catalysis Science and Technology, 2016, 6, 2325-2336.	2.1	23
138	TEM Video Compressive Sensing. Microscopy and Microanalysis, 2015, 21, 1583-1584.	0.2	4
139	A Precession Electron Diffraction and EELS Study of Beta-phase Evolution in Nano-crystalline Mg-9 wt.% Al Thin Films during Heat Treatment. Microscopy and Microanalysis, 2015, 21, 1463-1464.	0.2	0
140	In Situ Environmental Transmission Electron Microscopy of Ice Nucleation. Microscopy and Microanalysis, 2015, 21, 425-426.	0.2	0
141	Synthesis of 1 nm Pd Nanoparticles in a Microfluidic Reactor: Insights from in Situ X-ray Absorption Fine Structure Spectroscopy and Small-Angle X-ray Scattering. Journal of Physical Chemistry C, 2015, 119, 13257-13267.	1.5	61
142	Magnesium behavior and structural defects in Mg+ ion implanted silicon carbide. Journal of Nuclear Materials, 2015, 458, 146-155.	1.3	13
143	Effect of metalâ€“support interactions in Ni/Al2O3 catalysts with low metal loading for methane dry reforming. Applied Catalysis A: General, 2015, 494, 57-67.	2.2	106
144	Enhancing magnesite formation at low temperature and high CO2 pressure: The impact of seed crystals and minor components. Chemical Geology, 2015, 395, 119-125.	1.4	16

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145	Determining the location and nearest neighbours of aluminium in zeolites with atom probe tomography. Nature Communications, 2015, 6, 7589.	5.8	139
146	Effect of Oxygen Defects on the Catalytic Performance of VO_x/CeO₂ Catalysts for Oxidative Dehydrogenation of Methanol. ACS Catalysis, 2015, 5, 3006-3012.	5.5	96
147	Unraveling the Origin of Structural Disorder in High Temperature Transition Al₂O₃: Structure of Î¸-Al₂O₃. Chemistry of Materials, 2015, 27, 7042-7049.	3.2	51
148	Hierarchically structured catalysts for cascade and selective steam reforming/hydrodeoxygenation reactions. Chemical Communications, 2015, 51, 16617-16620.	2.2	8
149	Epitaxial single-crystal thin films of Mn Ti1âˆ’O2âˆ’ grown on (rutile)TiO2 substrates with pulsed laser deposition: Experiment and theory. Surface Science, 2015, 632, 185-194.	0.8	8
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