

Jeroen A Van Bokhoven

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

491
papers

19,955
citations

76
h-index

118
g-index

539
ext. papers

22,836
ext. citations

7.7
avg, IF

7.38
L-index

#	Paper	IF	Citations
491	Highly selective Suzuki reaction catalysed by a molecular Pd ^B -MOF catalyst under mild conditions: role of ligands and palladium speciation. <i>Catalysis Science and Technology</i> , 2022 , 12, 954-961	5.5	1
490	Reactivation of catalysts for methanol-to-hydrocarbons conversion with hydrogen. <i>Journal of Catalysis</i> , 2022 , 407, 54-64	7.3	1
489	Influence of the synthesis route on the spectroscopic, cytotoxic, and temperature-sensing properties of oleate-capped and ligand-free core/shell nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2022 , 606, 1421-1434	9.3	3
488	Probing Acid Sites in MOR Zeolite Using Low-Temperature ¹³ C Solid-State NMR Spectroscopy of Adsorbed Carbon Monoxide. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 3681-3687	3.8	1
487	Liquid-Gas Interface of Iron Aqueous Solutions and Fenton Reagents.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 2994-3001	6.4	3
486	Correlating Lewis acid activity to extra-framework aluminum species in zeolite Y introduced by ion-exchange. <i>Journal of Catalysis</i> , 2022 , 408, 24-35	7.3	2
485	Dynamic interplay between metal nanoparticles and oxide support under redox conditions. <i>Science</i> , 2022 , 376, 982-987	33.3	11
484	In situ Study of Low-temperature Dry Reforming of Methane Over La ₂ Ce ₂ O ₇ and LaNiO ₃ Mixed Oxides. <i>Applied Catalysis B: Environmental</i> , 2022 , 121528	21.8	2
483	Understanding X-ray absorption spectra by means of descriptors and machine learning algorithms. <i>Npj Computational Materials</i> , 2021 , 7,	10.9	7
482	Catalyst overcoating engineering towards high-performance electrocatalysis. <i>Chemical Society Reviews</i> , 2021 ,	58.5	6
481	Atomic Structure of Cu Centers in Mordenite Formed by Interaction of Copper Chloride with H-MOR Zeolite and Temperature Treatment. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 25867-25878	3.8	1
480	Heterogeneous Metal-Organic Framework Catalysts for Suzuki-Miyaura Cross Coupling in the Pharma Industry. <i>Chimia</i> , 2021 , 75, 972-978	1.3	2
479	Thermal degradation of defective high-surface-area UiO-66 in different gaseous environments.. <i>RSC Advances</i> , 2021 , 11, 38849-38855	3.7	1
478	Excited-state structure of copper phenanthroline-based photosensitizers. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 26729-26736	3.6	2
477	Influence of Hydrogen Pressure on the Structure of Platinum/Titania Catalysts. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 22531-22538	3.8	4
476	Pinpointing and Quantifying the Aluminum Distribution in Zeolite Catalysts Using Anomalous Scattering at the Al Absorption Edge. <i>Journal of the American Chemical Society</i> , 2021 , 143, 17926-17930	16.4	2
475	Titanium-Anchored Gold on Silica for Enhanced Catalytic Activity in Aqueous Ethanol Oxidation. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 1564-1575	3.9	2

474	Spatio-Chemical Heterogeneity of Defect-Engineered Metal-Organic Framework Crystals Revealed by Full-Field Tomographic X-ray Absorption Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10032-10039	16.4	5
473	Esterification Product Protection Strategies for Direct and Selective Methane Conversion. <i>Chimia</i> , 2021 , 75, 305-310	1.3	1
472	Size of Ceria Particles Influences Surface Hydroxylation and Hydroxyl Stability. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 9303-9309	3.8	5
471	Identifying Opportunities to Promote Systems Thinking in Catalysis Education. <i>Journal of Chemical Education</i> , 2021 , 98, 1583-1593	2.4	1
470	Modeling and Experiment for Oxygen Isotope Exchange over Copper-Containing Mordenite. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 12366-12373	3.8	1
469	Mapping Vibrational Spectra to the Structures of Copper Species in Zeolites Based on Calculated Stretching Frequencies of Adsorbed Nitrogen and Carbon Monoxides. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 12094-12106	3.8	0
468	Studying Reaction Mechanisms in Solution Using a Distributed Electron Microscopy Method. <i>ACS Nano</i> , 2021 , 15, 10296-10308	16.7	0
467	On the Stability of Pt-Based Catalysts in HBr/Br ₂ Solution. <i>Helvetica Chimica Acta</i> , 2021 , 104, e2100082	2	
466	Sparse ab initio x-ray transmission spectromotography for nanoscopic compositional analysis of functional materials. <i>Science Advances</i> , 2021 , 7,	14.3	3
465	Evolution of Heterogeneity in Industrial Selective Oxidation Catalyst Pellets. <i>ACS Catalysis</i> , 2021 , 11, 8274-8283	13.1	1
464	In Situ X-ray Absorption Spectroscopy and Droplet-Based Microfluidics: An Analysis of Calcium Carbonate Precipitation. <i>ACS Measurement Science Au</i> , 2021 , 1, 27-34		6
463	Identification of Kinetic and Spectroscopic Signatures of Copper Sites for Direct Oxidation of Methane to Methanol. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 15944-15953	16.4	11
462	Methane-to-Methanol on Mononuclear Copper(II) Sites Supported on Al ₂ O ₃ : Structure of Active Sites from Electron Paramagnetic Resonance*. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 16200-16207	16.4	6
461	Identification of Kinetic and Spectroscopic Signatures of Copper Sites for Direct Oxidation of Methane to Methanol. <i>Angewandte Chemie</i> , 2021 , 133, 16080-16089	3.6	
460	Following the structure of copper-zinc-alumina across the pressure gap in carbon dioxide hydrogenation. <i>Nature Catalysis</i> , 2021 , 4, 488-497	36.5	23
459	Mechanistic Study of Carbon Dioxide Hydrogenation over Pd/ZnO-Based Catalysts: The Role of Palladium-Zinc Alloy in Selective Methanol Synthesis. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 17053-17059	16.4	5
458	Stable Palladium Oxide Clusters Encapsulated in Silicalite-1 for Complete Methane Oxidation. <i>ACS Catalysis</i> , 2021 , 11, 7371-7382	13.1	7
457	Heterogeneously Catalyzed Aerobic Oxidation of Methane to a Methyl Derivative. <i>Angewandte Chemie</i> , 2021 , 133, 18286-18291	3.6	0

456	On the Promotional and Inhibitory Effects of Water on Wacker-Type Ethylene Oxidation Over Pd/Cu/Zelite Y. <i>ACS Catalysis</i> , 2021 , 11, 8684-8691	13.1	0
455	Enhanced Reducibility of the Ceria γ In Oxide Solid Solution Modifies the CO Oxidation Mechanism at the Platinum/Oxide Interface. <i>ACS Catalysis</i> , 2021 , 11, 9435-9449	13.1	5
454	Heterogeneously Catalyzed Aerobic Oxidation of Methane to a Methyl Derivative. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 18138-18143	16.4	7
453	Hydrogenation of ethylene over palladium: evolution of the catalyst structure by operando synchrotron-based techniques. <i>Faraday Discussions</i> , 2021 , 229, 197-207	3.6	5
452	Methanol synthesis over Cu/CeO $_2$ -rO $_2$ catalysts: the key role of multiple active components. <i>Catalysis Science and Technology</i> , 2021 , 11, 349-358	5.5	5
451	Paired Copper Monomers in Zeolite Omega: The Active Site for Methane-to-Methanol Conversion. <i>Angewandte Chemie</i> , 2021 , 133, 5918-5922	3.6	2
450	Paired Copper Monomers in Zeolite Omega: The Active Site for Methane-to-Methanol Conversion. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 5854-5858	16.4	10
449	Thermodynamic insights into strong metal-support interaction of transition metal nanoparticles on titania: simple descriptors for complex chemistry. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 4044-4054	13	4
448	Isomer-dependent catalytic pyrolysis mechanism of the lignin model compounds catechol, resorcinol and hydroquinone. <i>Chemical Science</i> , 2021 , 12, 3161-3169	9.4	13
447	Selective oxidation of methane to methanol on dispersed copper on alumina from readily available copper(II) formate. <i>Catalysis Science and Technology</i> , 2021 , 11, 5484-5490	5.5	1
446	The Application of Copper-Gold Catalysts in the Selective Oxidation of Glycerol at Acid and Basic Conditions. <i>Catalysts</i> , 2021 , 11, 94	4	2
445	Copper-exchanged large-pore and small-pore mordenite (MOR) for methane-to-methanol conversion.. <i>RSC Advances</i> , 2021 , 11, 31058-31061	3.7	1
444	A stable low-temperature H $_2$ -production catalyst by crowding Pt on γ -MoC. <i>Nature</i> , 2021 , 589, 396-401	50.4	109
443	Spatio-Chemical Heterogeneity of Defect-Engineered Metal-Organic Framework Crystals Revealed by Full-Field Tomographic X-ray Absorption Spectroscopy. <i>Angewandte Chemie</i> , 2021 , 133, 10120-10127	3.6	1
442	Improvement of ligand-free modification strategy to obtain water-stable up-converting nanoparticles with bright emission and high reaction yield. <i>Scientific Reports</i> , 2021 , 11, 18846	4.9	1
441	Time-Resolved XAS Provides Direct Evidence for Oxygen Activation on Cationic Iron in a Bimetallic Pt-FeO $_x$ /Al $_2$ O $_3$ Catalyst. <i>ACS Catalysis</i> , 2021 , 11, 11793-11805	13.1	2
440	Direct Evidence on the Mechanism of Methane Conversion under Non-oxidative Conditions over Iron-modified Silica: The Role of Propargyl Radicals Unveiled. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 24002-24007	16.4	4
439	Direct Evidence on the Mechanism of Methane Conversion under Non-oxidative Conditions over Iron-modified Silica: The Role of Propargyl Radicals Unveiled. <i>Angewandte Chemie</i> , 2021 , 133, 24204	3.6	2

438	On the location of Lewis acidic aluminum in zeolite mordenite and the role of framework-associated aluminum in mediating the switch between Brønsted and Lewis acidity. <i>Chemical Science</i> , 2021 , 12, 4094-4103	9.4	13
437	Structure of copper sites in zeolites examined by Fourier and wavelet transform analysis of EXAFS. <i>Chemical Science</i> , 2020 , 11, 5299-5312	9.4	32
436	Molecular Approach to Generate Cu(II) Sites on Silica for the Selective Partial Oxidation of Methane. <i>Chimia</i> , 2020 , 74, 237-240	1.3	1
435	Influence of Water in the Synthesis of the Zirconium-Based Metal-Organic Framework UiO-66: Isolation and Reactivity of [ZrCl(OH)(DMF)]Cl. <i>Inorganic Chemistry</i> , 2020 , 59, 7860-7868	5.1	11
434	The unique interplay between copper and zinc during catalytic carbon dioxide hydrogenation to methanol. <i>Nature Communications</i> , 2020 , 11, 2409	17.4	52
433	Hierarchical Structure of NiMo Hydrodesulfurization Catalysts Determined by Ptychographic X-Ray Computed Tomography. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17266-17271	16.4	6
432	Unwanted effects of X-rays in surface grafted copper(ii) organometallics and copper exchanged zeolites, how they manifest, and what can be done about them. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 6826-6837	3.6	9
431	Non-oxidative Methane Coupling over Silica versus Silica-Supported Iron(II) Single Sites. <i>Chemistry - A European Journal</i> , 2020 , 26, 8012-8016	4.8	15
430	Elucidating the Oxygen Activation Mechanism on Ceria-Supported Copper-Oxo Species Using Time-Resolved X-ray Absorption Spectroscopy. <i>ACS Catalysis</i> , 2020 , 10, 4692-4701	13.1	16
429	Undoped SnO as a Support for Ni Species to Boost Oxygen Generation through Alkaline Water Electrolysis. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 18407-18420	9.5	6
428	New analytical tools for advanced mechanistic studies in catalysis: photoionization and photoelectron photoion coincidence spectroscopy. <i>Catalysis Science and Technology</i> , 2020 , 10, 1975-1990	5.5	28
427	The dynamics of overlayer formation on catalyst nanoparticles and strong metal-support interaction. <i>Nature Communications</i> , 2020 , 11, 3220	17.4	53
426	Hierarchical Structure of NiMo Hydrodesulfurization Catalysts Determined by Ptychographic X-Ray Computed Tomography. <i>Angewandte Chemie</i> , 2020 , 132, 17419-17424	3.6	
425	The Threshold Photoelectron Spectrum of Fulvenone: A Reactive Ketene Derivative in Lignin Valorization. <i>ChemPhysChem</i> , 2020 , 21, 2217-2222	3.2	9
424	Active sites and mechanisms in the direct conversion of methane to methanol using Cu in zeolitic hosts: a critical examination. <i>Chemical Society Reviews</i> , 2020 , 49, 1449-1486	58.5	95
423	Elucidating the mechanism of heterogeneous Wacker oxidation over Pd-Cu/zeolite Y by transient XAS. <i>Nature Communications</i> , 2020 , 11, 1118	17.4	15
422	Probing the solid-liquid interface with tender x rays: A new ambient-pressure x-ray photoelectron spectroscopy endstation at the Swiss Light Source. <i>Review of Scientific Instruments</i> , 2020 , 91, 023103	1.7	24
421	Cu-Erionite Zeolite Achieves High Yield in Direct Oxidation of Methane to Methanol by Isothermal Chemical Looping. <i>Chemistry of Materials</i> , 2020 , 32, 1448-1453	9.6	19

4 ²⁰	Oxidation of methane to methanol over Cu-exchanged zeolites: Scientia gratia scientiae or paradigm shift in natural gas valorization?. <i>Journal of Catalysis</i> , 2020 , 385, 238-245	7.3	22
4 ¹⁹	Synthesis of all-silica hollow zeolites by selective demetallation. <i>CrystEngComm</i> , 2020 , 22, 2845-2848	3.3	1
4 ¹⁸	Pathways of Methane Transformation over Copper-Exchanged Mordenite as Revealed by In Situ NMR and IR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 910-918	16.4	28
4 ¹⁷	Pathways of Methane Transformation over Copper-Exchanged Mordenite as Revealed by In Situ NMR and IR Spectroscopy. <i>Angewandte Chemie</i> , 2020 , 132, 920-928	3.6	24
4 ¹⁶	Defining aluminum-zoning during synthesis of ZSM-5 zeolites. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 734-739	3.6	16
4 ¹⁵	Kinetic study and effect of water on methane oxidation to methanol over copper-exchanged mordenite. <i>Catalysis Science and Technology</i> , 2020 , 10, 382-390	5.5	20
4 ¹⁴	Heterogeneity of nano-sized zeolite crystals. <i>Microporous and Mesoporous Materials</i> , 2020 , 294, 109897	5.3	4
4 ¹³	Optimization of a heterogeneous Pd-Cu/zeolite Y Wacker catalyst for ethylene oxidation. <i>Chemical Communications</i> , 2020 , 56, 1377-1380	5.8	9
4 ¹²	Copper-Zinc Alloy-Free Synthesis of Methanol from Carbon Dioxide over Cu/ZnO/Faujasite. <i>ACS Catalysis</i> , 2020 , 10, 14240-14244	13.1	11
4 ¹¹	Strong Promoting Effect of Gold Nanoparticles on the CO Abatement Catalytic Activity of CoO _x /Clay-Bonded SiC Catalysts Produced by AA-MOCVD Method Using Co(acac) ₂ as Precursor. <i>ChemistrySelect</i> , 2020 , 5, 13878-13887	1.8	
4 ¹⁰	Modern X-ray spectroscopy: XAS and XES in the laboratory. <i>Coordination Chemistry Reviews</i> , 2020 , 423, 213466	23.2	39
4 ⁰⁹	Evidence of Octahedral CoMoB Sites in Hydrodesulfurization Catalysts as Determined by Resonant Inelastic X-ray Scattering and X-ray Absorption Spectroscopy. <i>ACS Catalysis</i> , 2020 , 10, 10978-10988	13.1	7
4 ⁰⁸	Towards a better understanding of Lewis acidic aluminium in zeolites. <i>Nature Materials</i> , 2020 , 19, 1047-1056	10.56	68
4 ⁰⁷	In situ formation of surface and bulk oxides in small palladium nanoparticles. <i>Chemical Communications</i> , 2020 , 56, 13097-13100	5.8	2
4 ⁰⁶	Discrimination of Aluminum from Silicon by Electron Crystallography with the JUNGFRÄU Detector. <i>Crystals</i> , 2020 , 10, 1148	2.3	2
4 ⁰⁵	Role of Water on the Structure of Palladium for Complete Oxidation of Methane. <i>ACS Catalysis</i> , 2020 , 10, 5783-5792	13.1	34
4 ⁰⁴	Variation of Aluminium Distribution in Small-Sized ZSM-5 Crystals during Desilication. <i>Chemistry - A European Journal</i> , 2019 , 25, 15879-15886	4.8	7
4 ⁰³	Fully Dehydroxylated Silica Generated from Hydrosilane: Surface Defects and Reactivity. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 23480-23487	3.8	3

402	The catalytic and radical mechanism for ethanol oxidation to acetic acid. <i>Chemical Communications</i> , 2019 , 55, 11833-11836	5.8	12
401	Comparative performance of Cu-zeolites in the isothermal conversion of methane to methanol. <i>Chemical Communications</i> , 2019 , 55, 11794-11797	5.8	19
400	Water Molecules Facilitate Hydrogen Release in Anaerobic Oxidation of Methane to Methanol over Cu/Mordenite. <i>ACS Catalysis</i> , 2019 , 9, 10365-10374	13.1	23
399	Increasing the activity of copper exchanged mordenite in the direct isothermal conversion of methane to methanol by Pt and Pd doping. <i>Chemical Science</i> , 2019 , 10, 167-171	9.4	15
398	Cryo-TEM and electron tomography reveal leaching-induced pore formation in ZSM-5 zeolite. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1442-1446	13	16
397	Design of Stable Palladium-Based Zeolite Catalysts for Complete Methane Oxidation by Postsynthesis Zeolite Modification. <i>ACS Catalysis</i> , 2019 , 9, 2303-2312	13.1	52
396	Optimization of Lignin Extraction from Pine Wood for Fast Pyrolysis by Using a Valerolactone-Based Binary Solvent System. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4058-4068	8.3	14
395	New experimental and theoretical assessment of the dissociation energy of C2. <i>Molecular Physics</i> , 2019 , 117, 1645-1652	1.7	5
394	Heavy atom labeling enables silanol defect visualization in silicalite-1 crystals. <i>Chemical Communications</i> , 2019 , 55, 482-485	5.8	13
393	In Situ X-ray Photoelectron Spectroscopy Detects Multiple Active Sites Involved in the Selective Anaerobic Oxidation of Methane in Copper-Exchanged Zeolites. <i>ACS Catalysis</i> , 2019 , 9, 6728-6737	13.1	19
392	On isothermality in some commonly used plug flow reactors for X-ray based investigations of catalysts. <i>Catalysis Science and Technology</i> , 2019 , 9, 3081-3089	5.5	9
391	A DuMond-type crystal spectrometer for synchrotron-based X-ray emission studies in the energy range of 15-26 keV. <i>Review of Scientific Instruments</i> , 2019 , 90, 063106	1.7	3
390	Lewis Acidity Inherent to the Framework of Zeolite Mordenite. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 15139-15144	3.8	25
389	Renewable CO recycling and synthetic fuel production in a marine environment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 12212-12219	11.5	46
388	Monomeric Copper(II) Sites Supported on Alumina Selectively Convert Methane to Methanol. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9841-9845	16.4	43
387	Methane-to-Methanol: Activity Descriptors in Copper-Exchanged Zeolites for the Rational Design of Materials. <i>ACS Catalysis</i> , 2019 , 9, 6293-6304	13.1	42
386	Misconceptions and challenges in methane-to-methanol over transition-metal-exchanged zeolites. <i>Nature Catalysis</i> , 2019 , 2, 485-494	36.5	87
385	Monomeric Copper(II) Sites Supported on Alumina Selectively Convert Methane to Methanol. <i>Angewandte Chemie</i> , 2019 , 131, 9946-9950	3.6	14

384	The influence of zeolite morphology on the conversion of methane to methanol on copper-exchanged omega zeolite (MAZ). <i>Catalysis Science and Technology</i> , 2019 , 9, 2806-2811	5.5	12
383	Methane-to-Methanol via Chemical Looping: Economic Potential and Guidance for Future Research. <i>Industrial & Engineering Chemistry Research</i> , 2019 ,	3.9	43
382	Role of Bismuth in the Stability of PtBi Bimetallic Catalyst for Methane Mediated Deoxygenation of Guaiacol, an APXPS Study. <i>ACS Catalysis</i> , 2019 , 9, 3694-3699	13.1	7
381	Composition and Structure Dependent Mesopore/Macropore Formation in Zeolites by Desilication. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 8793-8801	3.8	13
380	Zeolite Nanoreactor for Investigating Sintering Effects of Cobalt-Catalyzed Fischer-Tropsch Synthesis. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 5140-5145	3.9	7
379	Autoreduction of Copper in Zeolites: Role of Topology, Si/Al Ratio, and Copper Loading. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 9926-9934	3.8	28
378	Where Does the Zeolite ZSM-5 Nucleation and Growth Start? The Effect of Aluminum. <i>Crystal Growth and Design</i> , 2019 , 19, 2548-2551	3.5	12
377	The Link between ZSM-5 Zeolite Crystallization and Mesopore Formation by Leaching. <i>Chemistry - A European Journal</i> , 2019 , 25, 7689-7694	4.8	12
376	Aerosol-based synthesis of pure and stable amorphous calcium carbonate. <i>Chemical Communications</i> , 2019 , 55, 10725-10728	5.8	8
375	Tuning the Incorporation of Magnesium into Calcite during Its Crystallization from Additive-Free Aqueous Solution. <i>Crystal Growth and Design</i> , 2019 , 19, 4385-4394	3.5	6
374	Spectroscopic disentanglement of the quantum states of highly excited Cu. <i>Nature Communications</i> , 2019 , 10, 3270	17.4	4
373	3D-structured supports create complete data sets for electron crystallography. <i>Nature Communications</i> , 2019 , 10, 3316	17.4	12
372	Design and performance of a new setup for spatially resolved transmission X-ray photoelectron spectroscopy at the Swiss Light Source. <i>Journal of Synchrotron Radiation</i> , 2019 , 26, 785-792	2.4	4
371	Polarization-sensitive reconstruction of transient local THz fields at dielectric interfaces. <i>Optica</i> , 2019 , 6, 1431	8.6	0
370	Atomically dispersed platinum on low index and stepped ceria surfaces: phase diagrams and stability analysis. <i>Physical Chemistry Chemical Physics</i> , 2019 , 22, 28-38	3.6	16
369	Droplet-based X-ray absorption spectroscopy cell for studying crystallization processes at the tender X-ray energy range.. <i>RSC Advances</i> , 2019 , 9, 34004-34010	3.7	4
368	Spirobifluorene-based Porous Organic Polymers as Efficient Porous Supports for Pd and Pt for Selective Hydrogenation. <i>ChemCatChem</i> , 2019 , 11, 538-549	5.2	18
367	A Perspective on Counting Catalytic Active Sites and Rates of Reaction Using X-Ray Spectroscopy. <i>Topics in Catalysis</i> , 2019 , 62, 1218-1227	2.3	16

366	Mechanistic implications of lanthanum-modification on gold-catalyzed formic acid decomposition under SCR-relevant conditions. <i>Applied Catalysis B: Environmental</i> , 2019 , 244, 709-718	21.8	4
365	Palladium Carbide and Hydride Formation in the Bulk and at the Surface of Palladium Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 12029-12037	3.8	45
364	Homogeneous Copper-Catalyzed Conversion of Methane to Methyl Trifluoroacetate in High Yield at Low Pressure. <i>ChemCatChem</i> , 2018 , 10, 2383-2386	5.2	18
363	Structural Changes in Deactivated Fluid Catalytic Cracking Catalysts Determined by Electron Microscopy. <i>ACS Catalysis</i> , 2018 , 8, 4591-4599	13.1	16
362	Time-resolved operando studies of carbon supported Pd nanoparticles under hydrogenation reactions by X-ray diffraction and absorption. <i>Faraday Discussions</i> , 2018 , 208, 187-205	3.6	42
361	Stable complete methane oxidation over palladium based zeolite catalysts. <i>Nature Communications</i> , 2018 , 9, 2545	17.4	123
360	Polarization-sensitive pulse reconstruction by momentum-resolved photoelectron streaking. <i>Optics Express</i> , 2018 , 26, 8364-8374	3.3	3
359	Quantitative region-of-interest tomography using variable field of view. <i>Optics Express</i> , 2018 , 26, 16752-16768	3.6	8
358	On the Mechanism Underlying the Direct Conversion of Methane to Methanol by Copper Hosted in Zeolites; Braiding Cu K-Edge XANES and Reactivity Studies. <i>Journal of the American Chemical Society</i> , 2018 , 140, 10090-10093	16.4	67
357	Structure of the Co Intermediate of a Cobalt Pentapyridyl Catalyst for Hydrogen Evolution Revealed by Time-Resolved X-ray Spectroscopy. <i>ChemSusChem</i> , 2018 , 11, 3087-3091	8.3	7
356	Visualization of Structural Changes During Deactivation and Regeneration of FAU Zeolite for Catalytic Fast Pyrolysis of Lignin Using NMR and Electron Microscopy Techniques. <i>ChemCatChem</i> , 2018 , 10, 4431-4437	5.2	12
355	Effect of Brønsted acid sites on the direct conversion of methane into methanol over copper-exchanged mordenite. <i>Catalysis Science and Technology</i> , 2018 , 8, 4141-4150	5.5	42
354	Numerical Modeling of Hydroperoxyl-Mediated Oxidative Dehydrogenation of Formic Acid under SCR-Relevant Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 10206-10215	3.9	
353	The Effect of the Active-Site Structure on the Activity of Copper Mordenite in the Aerobic and Anaerobic Conversion of Methane into Methanol. <i>Angewandte Chemie</i> , 2018 , 130, 9044-9048	3.6	22
352	The Effect of the Active-Site Structure on the Activity of Copper Mordenite in the Aerobic and Anaerobic Conversion of Methane into Methanol. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8906-8910	16.4	97
351	Conversion of Methane to Methanol on Copper Mordenite: Redox Mechanism of Isothermal and High-Temperature-Activation Procedures. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 12036-12039	3.9	19
350	EPR study of ceria nanoparticles containing different concentration of Ce ³⁺ ions. <i>Materials Chemistry and Physics</i> , 2018 , 219, 251-257	4.4	11
349	Revisiting copper reduction in zeolites: the impact of autoreduction and sample synthesis procedure. <i>Chemical Communications</i> , 2018 , 54, 7447-7450	5.8	37

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