

Javier Prez-Ramrez

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.

543
papers

35,235
citations

97
h-index

166
g-index

632
ext. papers

40,347
ext. citations

10.5
avg, IF

7.92
L-index

#	Paper	IF	Citations
543	Redispersion strategy for high-loading carbon-supported metal catalysts with controlled nuclearity.. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 5953-5961	13	1
542	Generalizing Performance Equations in Heterogeneous Catalysis from Hybrid Data and Statistical Learning. <i>ACS Catalysis</i> , 2022 , 12, 1581-1594	13.1	2
541	Mechanistic routes toward C3 products in copper-catalysed CO2 electroreduction. <i>Catalysis Science and Technology</i> , 2022 , 12, 409-417	5.5	3
540	Natural Wood-Based Catalytic Membrane Microreactors for Continuous Hydrogen Generation.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	2
539	Synthesis of Florol via Prins cyclization over heterogeneous catalysts. <i>Journal of Catalysis</i> , 2022 , 405, 288-302	7.3	0
538	Atomic Pd-promoted ZnZrO solid solution catalyst for CO2 hydrogenation to methanol. <i>Applied Catalysis B: Environmental</i> , 2022 , 304, 120994	21.8	7
537	Controlled Formation of Dimers and Spatially Isolated Atoms in Bimetallic Au-Ru Catalysts via Carbon-Host Functionalization.. <i>Small</i> , 2022 , e2200224	11	2
536	Automated Image Analysis for Single-Atom Detection in Catalytic Materials by Transmission Electron Microscopy.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	4
535	Catalyst: A step forward for PVC manufacture from natural gas. <i>Chem</i> , 2022 ,	16.2	1
534	Single-atom heterogeneous catalysts for sustainable organic synthesis. <i>Trends in Chemistry</i> , 2022 , 4, 264-278	14.8	1
533	ZnO-Promoted Inverse ZrO2/Cu Catalysts for CO2-Based Methanol Synthesis under Mild Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 81-90	8.3	1
532	Recent Progress in Materials Exploration for Thermocatalytic, Photocatalytic, and Integrated Photothermocatalytic CO2-to-Fuel Conversion. <i>Advanced Energy and Sustainability Research</i> , 2022 , 3, 2100169	1.6	5
531	A generalized machine learning framework to predict the space-time yield of methanol from thermocatalytic CO2 hydrogenation. <i>Applied Catalysis B: Environmental</i> , 2022 , 121530	21.8	4
530	Scalable two-step annealing method for preparing ultra-high-density single-atom catalyst libraries. <i>Nature Nanotechnology</i> , 2021 ,	28.7	40
529	Planetary metrics for the absolute environmental sustainability assessment of chemicals.. <i>Green Chemistry</i> , 2021 , 23, 9881-9893	10	7
528	Toward reliable and accessible ammonia quantification in the electrocatalytic reduction of nitrogen. <i>Chem Catalysis</i> , 2021 ,		4
527	Nanostructure of nickel-promoted indium oxide catalysts drives selectivity in CO hydrogenation. <i>Nature Communications</i> , 2021 , 12, 1960	17.4	28

526	Sustainability footprints of a renewable carbon transition for the petrochemical sector within planetary boundaries. <i>One Earth</i> , 2021 , 4, 565-583	8.1	23
525	Impact of Heteroatom Speciation on the Activity and Stability of Carbon-Based Catalysts for Propane Dehydrogenation. <i>ChemCatChem</i> , 2021 , 13, 2599-2608	5.2	4
524	Inside Back Cover: Microfabrication Enables Quantification of Interfacial Activity in Thermal Catalysis (Small Methods 5/2021). <i>Small Methods</i> , 2021 , 5, 2170021	12.8	
523	Impact of hybrid CO ₂ -CO feeds on methanol synthesis over In ₂ O ₃ -based catalysts. <i>Applied Catalysis B: Environmental</i> , 2021 , 285, 119878	21.8	15
522	Precursor Nuclearity and Ligand Effects in Atomically-Dispersed Heterogeneous Iron Catalysts for Alkyne Semi-Hydrogenation. <i>ChemCatChem</i> , 2021 , 13, 3247-3256	5.2	7
521	Methanol Synthesis by Hydrogenation of Hybrid CO -CO Feeds. <i>ChemSusChem</i> , 2021 , 14, 2914-2923	8.3	4
520	A quantitative roadmap for China towards carbon neutrality in 2060 using methanol and ammonia as energy carriers. <i>IScience</i> , 2021 , 24, 102513	6.1	26
519	Design of carbon supports for metal-catalyzed acetylene hydrochlorination. <i>Nature Communications</i> , 2021 , 12, 4016	17.4	10
518	Catalytic processing of plastic waste on the rise. <i>CheM</i> , 2021 , 7, 1487-1533	16.2	50
517	Sustainability Assessment of Thermocatalytic Conversion of CO ₂ to Transportation Fuels, Methanol, and 1-Propanol. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 10591-10600	8.3	8
516	Activity differences of rutile and anatase TiO ₂ polymorphs in catalytic HBr oxidation. <i>Catalysis Today</i> , 2021 , 369, 221-226	5.3	2
515	Biomass valorisation over polyoxometalate-based catalysts. <i>Green Chemistry</i> , 2021 , 23, 18-36	10	33
514	Quantification of Redox Sites during Catalytic Propane Oxychlorination by Operando EPR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 3596-3602	16.4	8
513	Design of Local Atomic Environments in Single-Atom Electrocatalysts for Renewable Energy Conversions. <i>Advanced Materials</i> , 2021 , 33, e2003075	24	73
512	Nanoscale engineering of catalytic materials for sustainable technologies. <i>Nature Nanotechnology</i> , 2021 , 16, 129-139	28.7	62
511	Quantification of Redox Sites during Catalytic Propane Oxychlorination by Operando EPR Spectroscopy. <i>Angewandte Chemie</i> , 2021 , 133, 3640-3646	3.6	1
510	Innentitelbild: Quantification of Redox Sites during Catalytic Propane Oxychlorination by Operando EPR Spectroscopy (Angew. Chem. 7/2021). <i>Angewandte Chemie</i> , 2021 , 133, 3354-3354	3.6	
509	Status and prospects of the decentralised valorisation of natural gas into energy and energy carriers. <i>Chemical Society Reviews</i> , 2021 , 50, 2984-3012	58.5	19

508	Sustainable Synthesis of Bimetallic Single Atom Gold-Based Catalysts with Enhanced Durability in Acetylene Hydrochlorination. <i>Small</i> , 2021 , 17, e2004599	11	10
507	Microfabrication Enables Quantification of Interfacial Activity in Thermal Catalysis.. <i>Small Methods</i> , 2021 , 5, e2001231	12.8	2
506	Upscaling Effects on Alkali Metal-Grafted Ultrastable Y Zeolite Extrudates for Modeled Catalytic Deoxygenation of Bio-oils. <i>ChemCatChem</i> , 2021 , 13, 1951-1965	5.2	3
505	Planetary Boundaries Analysis of Low-Carbon Ammonia Production Routes. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 9740-9749	8.3	7
504	Ethane-Based Catalytic Process for Vinyl Chloride Manufacture. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 24089-24095	16.4	3
503	Ethane-Based Catalytic Process for Vinyl Chloride Manufacture. <i>Angewandte Chemie</i> , 2021 , 133, 24291	3.6	0
502	Direct Conversion of Polypropylene into Liquid Hydrocarbons on Carbon-Supported Platinum Catalysts. <i>ChemSusChem</i> , 2021 , 14, 5179-5185	8.3	3
501	Functionalized wood with tunable tribopolarity for efficient triboelectric nanogenerators. <i>Matter</i> , 2021 , 4, 3049-3066	12.7	6
500	Nuclearity and Host Effects of Carbon-Supported Platinum Catalysts for Dibromomethane Hydrodebromination. <i>Small</i> , 2021 , 17, e2005234	11	5
499	Process modelling and life cycle assessment coupled with experimental work to shape the future sustainable production of chemicals and fuels. <i>Reaction Chemistry and Engineering</i> , 2021 , 6, 1179-1194	4.9	7
498	Laser-Microstructured Copper Reveals Selectivity Patterns in the Electrocatalytic Reduction of CO ₂ . <i>Chem</i> , 2020 , 6, 1707-1722	16.2	18
497	Transformation of titanium carbide into mesoporous titania for catalysed HBr oxidation. <i>Catalysis Science and Technology</i> , 2020 , 10, 4072-4083	5.5	1
496	Substrate substitution effects in the Fries rearrangement of aryl esters over zeolite catalysts. <i>Catalysis Science and Technology</i> , 2020 , 10, 4282-4292	5.5	2
495	Core-shell structured catalysts for thermocatalytic, photocatalytic, and electrocatalytic conversion of CO. <i>Chemical Society Reviews</i> , 2020 , 49, 2937-3004	58.5	201
494	Biomass valorisation over metal-based solid catalysts from nanoparticles to single atoms. <i>Chemical Society Reviews</i> , 2020 , 49, 3764-3782	58.5	76
493	Nanostructuring unlocks high performance of platinum single-atom catalysts for stable vinyl chloride production. <i>Nature Catalysis</i> , 2020 , 3, 376-385	36.5	71
492	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	28
491	Hydrocracking of hexadecane to jet fuel components over hierarchical Ru-modified faujasite zeolite. <i>Fuel</i> , 2020 , 278, 118193	7.1	9

490	Carrier-Induced Modification of Palladium Nanoparticles on Porous Boron Nitride for Alkyne Semi-Hydrogenation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19639-19644	16.4	17
489	Green Synthesis of Hierarchical Metal-Organic Framework/Wood Functional Composites with Superior Mechanical Properties. <i>Advanced Science</i> , 2020 , 7, 1902897	13.6	44
488	Structure Sensitivity and Evolution of Nickel-Bearing Nitrogen-Doped Carbons in the Electrochemical Reduction of CO ₂ . <i>ACS Catalysis</i> , 2020 , 10, 3444-3454	13.1	14
487	Operando Photoelectron Photoion Coincidence Spectroscopy Unravels Mechanistic Fingerprints of Propane Activation by Catalytic Oxyhalogenation. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 856-863	6.4	13
486	Ceria in halogen chemistry. <i>Chinese Journal of Catalysis</i> , 2020 , 41, 915-927	11.3	4
485	CO ₂ -Promoted Catalytic Process Forming Higher Alcohols with Tunable Nature at Record Productivity. <i>ChemCatChem</i> , 2020 , 12, 2732-2744	5.2	8
484	Development of In ₂ O ₃ -Based Catalysts for CO ₂ -Based Methanol Production. <i>Chimia</i> , 2020 , 74, 257-262	1.3	8
483	Dual catalyst system for selective vinyl chloride production via ethene oxychlorination. <i>Catalysis Science and Technology</i> , 2020 , 10, 560-575	5.5	3
482	Nitrogen-Doped Carbons with Hierarchical Porosity via Chemical Blowing Towards Long-Lived Metal-Free Catalysts for Acetylene Hydrochlorination. <i>ChemCatChem</i> , 2020 , 12, 1922-1925	5.2	6
481	Aluminum Redistribution in ZSM-5 Zeolite upon Interaction with Gaseous Halogens and Hydrogen Halides and Implications in Catalysis. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 722-733	3.8	2
480	Role of Zirconia in Indium Oxide-Catalyzed CO ₂ Hydrogenation to Methanol. <i>ACS Catalysis</i> , 2020 , 10, 1133-1145	13.1	88
479	Epitaxially Directed Iridium Nanostructures on Titanium Dioxide for the Selective Hydrodechlorination of Dichloromethane. <i>ACS Catalysis</i> , 2020 , 10, 528-542	13.1	15
478	Single-Atom Catalysts across the Periodic Table. <i>Chemical Reviews</i> , 2020 , 120, 11703-11809	68.1	237
477	Achieving a low-carbon future through the energy-chemical nexus in China. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 6141-6155	5.8	4
476	Enhanced Performance of Zirconium-Doped Ceria Catalysts for the Methoxycarbonylation of Anilines. <i>Chemistry - A European Journal</i> , 2020 , 26, 16129-16137	4.8	0
475	Hybridization of Fossil- and CO ₂ -Based Routes for Ethylene Production using Renewable Energy. <i>ChemSusChem</i> , 2020 , 13, 6370-6380	8.3	8
474	Key role of chemistry versus bias in electrocatalytic oxygen evolution. <i>Nature</i> , 2020 , 587, 408-413	50.4	176
473	Electrochemical Reduction of Carbon Dioxide to 1-Butanol on Oxide-Derived Copper. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 21072-21079	16.4	29

472	Methanol as a Hydrogen Carrier: Kinetic and Thermodynamic Drivers for its CO -Based Synthesis and Reforming over Heterogeneous Catalysts. <i>ChemSusChem</i> , 2020 , 13, 6330-6337	8.3	5
471	Carrier-Induced Modification of Palladium Nanoparticles on Porous Boron Nitride for Alkyne Semi-Hydrogenation. <i>Angewandte Chemie</i> , 2020 , 132, 19807-19812	3.6	7
470	Single atom catalysis: a decade of stunning progress and the promise for a bright future. <i>Nature Communications</i> , 2020 , 11, 4302	17.4	67
469	Activation of Copper Species on Carbon Nitride for Enhanced Activity in the Arylation of Amines. <i>ACS Catalysis</i> , 2020 , 10, 11069-11080	13.1	12
468	Synthesizing High-Volume Chemicals from CO without Direct H Input. <i>ChemSusChem</i> , 2020 , 13, 6066-6083	8.3	6
467	Alkane Functionalization via Catalytic Oxychlorination: Performance as a Function of the Carbon Number. <i>Energy Technology</i> , 2020 , 8, 1900622	3.5	2
466	Performance of Metal-Catalyzed Hydrodebromination of Dibromomethane Analyzed by Descriptors Derived from Statistical Learning. <i>ACS Catalysis</i> , 2020 , 10, 6129-6143	13.1	15
465	Tunable Catalytic Performance of Palladium Nanoparticles for H ₂ O ₂ Direct Synthesis via Surface-Bound Ligands. <i>ACS Catalysis</i> , 2020 , 10, 5202-5207	13.1	16
464	Metal-Organic Frameworks/Wood Composites: Green Synthesis of Hierarchical Metal-Organic Framework/Wood Functional Composites with Superior Mechanical Properties (Adv. Sci. 7/2020). <i>Advanced Science</i> , 2020 , 7, 2070040	13.6	78
463	Volcano Trend in Electrocatalytic CO ₂ Reduction Activity over Atomically Dispersed Metal Sites on Nitrogen-Doped Carbon. <i>ACS Catalysis</i> , 2019 , 9, 10426-10439	13.1	96
462	Cascade Deoxygenation Process Integrating Acid and Base Catalysts for the Efficient Production of Second-Generation Biofuels. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 18027-18037	8.3	8
461	Tunability and Scalability of Single-Atom Catalysts Based on Carbon Nitride. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 5223-5230	8.3	17
460	Controlling the speciation and reactivity of carbon-supported gold nanostructures for catalysed acetylene hydrochlorination. <i>Chemical Science</i> , 2019 , 10, 359-369	9.4	48
459	Catalytic halogenation of methane: a dream reaction with practical scope?. <i>Catalysis Science and Technology</i> , 2019 , 9, 4515-4530	5.5	13
458	Nitride-Derived Copper Modified with Indium as a Selective and Highly Stable Catalyst for the Electroreduction of Carbon Dioxide. <i>ChemSusChem</i> , 2019 , 12, 3501-3508	8.3	15
457	Mechanistic Understanding of Halogen-mediated Catalytic Processes for Selective Natural Gas Functionalization. <i>Chimia</i> , 2019 , 73, 288-293	1.3	
456	Selective Propylene Production via Propane Oxychlorination on Metal Phosphate Catalysts. <i>ACS Catalysis</i> , 2019 , 9, 5772-5782	13.1	14
455	Sustainable Continuous Flow Valorization of γ -Valerolactone with Trioxane to β -Methylene- γ -Valerolactone over Basic Beta Zeolites. <i>ChemSusChem</i> , 2019 , 12, 2628-2636	8.3	24

454	Atom-by-Atom Resolution of Structure-Function Relations over Low-Nuclearity Metal Catalysts. <i>Angewandte Chemie</i> , 2019 , 131, 8816-8821	3.6	11
453	Tailoring Nitrogen-Doped Carbons as Hosts for Single-Atom Catalysts. <i>ChemCatChem</i> , 2019 , 11, 2812-2830	3.0	26
452	Atom-by-Atom Resolution of Structure-Function Relations over Low-Nuclearity Metal Catalysts. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8724-8729	16.4	64
451	Extending Accurate Time Distribution and Timeliness Capabilities Over the Air to Enable Future Wireless Industrial Automation Systems. <i>Proceedings of the IEEE</i> , 2019 , 107, 1132-1152	14.3	37
450	Kinetics of ceria-catalysed ethene oxychlorination. <i>Journal of Catalysis</i> , 2019 , 372, 287-298	7.3	2
449	Halogenbedingte Oberflächenbindung steuert die selektive Alkanfunktionalisierung zu Olefinen. <i>Angewandte Chemie</i> , 2019 , 131, 5935-5940	3.6	4
448	Preparation of highly active phosphated TiO ₂ catalysts via continuous sol-gel synthesis in a microreactor. <i>Catalysis Science and Technology</i> , 2019 , 9, 4744-4758	5.5	3
447	Mechanistic origin of the diverging selectivity patterns in catalyzed ethane and ethene oxychlorination. <i>Journal of Catalysis</i> , 2019 , 377, 233-244	7.3	7
446	Mechanistic Insights into the Ceria-Catalyzed Synthesis of Carbamates as Polyurethane Precursors. <i>ACS Catalysis</i> , 2019 , 9, 7708-7720	13.1	7
445	Preserved in a Shell: High-Performance Graphene-Confined Ruthenium Nanoparticles in Acetylene Hydrochlorination. <i>Angewandte Chemie</i> , 2019 , 131, 12425-12432	3.6	4
444	Atomic-scale engineering of indium oxide promotion by palladium for methanol production via CO hydrogenation. <i>Nature Communications</i> , 2019 , 10, 3377	17.4	157
443	Preserved in a Shell: High-Performance Graphene-Confined Ruthenium Nanoparticles in Acetylene Hydrochlorination. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12297-12304	16.4	31
442	Titelbild: Halogenbedingte Oberflächenbindung steuert die selektive Alkanfunktionalisierung zu Olefinen (Angew. Chem. 18/2019). <i>Angewandte Chemie</i> , 2019 , 131, 5829-5829	3.6	
441	Transforming Energy with Single-Atom Catalysts. <i>Joule</i> , 2019 , 3, 2897-2929	27.8	115
440	Halogen-Dependent Surface Confinement Governs Selective Alkane Functionalization to Olefins. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5877-5881	16.4	16
439	Heading to Distributed Electrocatalytic Conversion of Small Abundant Molecules into Fuels, Chemicals, and Fertilizers. <i>Joule</i> , 2019 , 3, 2602-2621	27.8	44
438	Strategies to break linear scaling relationships. <i>Nature Catalysis</i> , 2019 , 2, 971-976	36.5	127
437	Plant-to-planet analysis of CO ₂ -based methanol processes. <i>Energy and Environmental Science</i> , 2019 , 12, 3425-3436	35.4	107

436	Electrocatalytic Reduction of Nitrogen: From Haber-Bosch to Ammonia Artificial Leaf. <i>Chem</i> , 2019 , 5, 263-283	16.2	177
435	Titelbild: Design of Single Gold Atoms on Nitrogen-Doped Carbon for Molecular Recognition in Alkyne Semi-Hydrogenation (Angew. Chem. 2/2019). <i>Angewandte Chemie</i> , 2019 , 131, 357-357	3.6	
434	Design of Single Gold Atoms on Nitrogen-Doped Carbon for Molecular Recognition in Alkyne Semi-Hydrogenation. <i>Angewandte Chemie</i> , 2019 , 131, 514-519	3.6	15
433	Design of Single Gold Atoms on Nitrogen-Doped Carbon for Molecular Recognition in Alkyne Semi-Hydrogenation. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 504-509	16.4	67
432	Ensemble Design in Nickel Phosphide Catalysts for Alkyne Semi-Hydrogenation. <i>ChemCatChem</i> , 2019 , 11, 457-464	5.2	16
431	Selective Methane Functionalization via Oxyhalogenation over Supported Noble Metal Nanoparticles. <i>ACS Catalysis</i> , 2019 , 9, 1710-1725	13.1	19
430	Environmental and economical perspectives of a glycerol biorefinery. <i>Energy and Environmental Science</i> , 2018 , 11, 1012-1029	35.4	106
429	Microfabricated electrodes unravel the role of interfaces in multicomponent copper-based CO reduction catalysts. <i>Nature Communications</i> , 2018 , 9, 1477	17.4	48
428	Single-atom heterogeneous catalysts based on distinct carbon nitride scaffolds. <i>National Science Review</i> , 2018 , 5, 642-652	10.8	82
427	Halogen type as a selectivity switch in catalysed alkane oxyhalogenation. <i>Catalysis Science and Technology</i> , 2018 , 8, 2231-2243	5.5	10
426	Mechanism of Ethylene Oxychlorination on Ceria. <i>ACS Catalysis</i> , 2018 , 8, 2651-2663	13.1	15
425	Acidity Effects in Positron Annihilation Lifetime Spectroscopy of Zeolites. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 3443-3453	3.8	4
424	Lanthanum vanadate catalysts for selective and stable methane oxybromination. <i>Journal of Catalysis</i> , 2018 , 363, 69-80	7.3	12
423	Mechanism and microkinetics of methanol synthesis via CO ₂ hydrogenation on indium oxide. <i>Journal of Catalysis</i> , 2018 , 361, 313-321	7.3	132
422	Towards sustainable manufacture of epichlorohydrin from glycerol using hydrotalcite-derived basic oxides. <i>Green Chemistry</i> , 2018 , 20, 148-159	10	33
421	Enhanced Base-Free Formic Acid Production from CO on Pd/g-C N by Tuning of the Carrier Defects. <i>ChemSusChem</i> , 2018 , 11, 2859-2869	8.3	30
420	Selective ensembles in supported palladium sulfide nanoparticles for alkyne semi-hydrogenation. <i>Nature Communications</i> , 2018 , 9, 2634	17.4	110
419	Demo/poster abstract: Enabling time-critical applications over next-generation 802.11 networks 2018 ,		3

418	Evidence of radical chemistry in catalytic methane oxybromination. <i>Nature Catalysis</i> , 2018 , 1, 363-370	36.5	33
417	Descriptors for High-Performance Nitrogen-Doped Carbon Catalysts in Acetylene Hydrochlorination. <i>ACS Catalysis</i> , 2018 , 8, 1114-1121	13.1	74
416	Sulfur-Modified Copper Catalysts for the Electrochemical Reduction of Carbon Dioxide to Formate. <i>ACS Catalysis</i> , 2018 , 8, 837-844	13.1	132
415	An Activated TiCBiC Composite for Natural Gas Upgrading via Catalytic Oxyhalogenation. <i>ChemCatChem</i> , 2018 , 10, 1282-1290	5.2	9
414	Elucidating the Distribution and Speciation of Boron and Cesium in BCsX Zeolite Catalysts for Styrene Production. <i>ChemPhysChem</i> , 2018 , 19, 437-445	3.2	10
413	. <i>Catalysis Science and Technology</i> , 2018 , 8, 187-200	5.5	16
412	Selective Methane Oxybromination over Nanostructured Ceria Catalysts. <i>ACS Catalysis</i> , 2018 , 8, 291-303	13.1	16
411	Die facettenreiche Reaktivit� heterogener Einzelatom-Katalysatoren. <i>Angewandte Chemie</i> , 2018 , 130, 15538-15552	3.6	29
410	Positron Annihilation Spectroscopy: Shedding New Light on Nanostructured Catalysts with Positron Annihilation Spectroscopy (Small Methods 12/2018). <i>Small Methods</i> , 2018 , 2, 1800060	12.8	1
409	Hydrotalcite-Derived Mixed Oxides for the Synthesis of a Key Vitamin A Intermediate Reducing Waste. <i>ACS Omega</i> , 2018 , 3, 15293-15301	3.9	2
408	Origin of the Selective Electroreduction of Carbon Dioxide to Formate by Chalcogen Modified Copper. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 7153-7159	6.4	41
407	Shedding New Light on Nanostructured Catalysts with Positron Annihilation Spectroscopy. <i>Small Methods</i> , 2018 , 2, 1800268	12.8	5
406	Techno-Economic Analysis of a Glycerol Biorefinery. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 16563-16572	8.3	35
405	The Multifaceted Reactivity of Single-Atom Heterogeneous Catalysts. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15316-15329	16.4	179
404	Role of Carbonaceous Supports and Potassium Promoter on Higher Alcohols Synthesis over CopperIron Catalysts. <i>ACS Catalysis</i> , 2018 , 8, 9604-9618	13.1	40
403	Enhanced Base-Free Formic Acid Production from CO2 on Pd/g-C3N4 by Tuning of the Carrier Defects. <i>ChemSusChem</i> , 2018 , 11, 2841-2841	8.3	
402	Structure-performance descriptors and the role of Lewis acidity in the methanol-to-propylene process. <i>Nature Chemistry</i> , 2018 , 10, 804-812	17.6	145
401	A heterogeneous single-atom palladium catalyst surpassing homogeneous systems for Suzuki coupling. <i>Nature Nanotechnology</i> , 2018 , 13, 702-707	28.7	316

400	Titelbild: Hybrid Palladium Nanoparticles for Direct Hydrogen Peroxide Synthesis: The Key Role of the Ligand (Angew. Chem. 7/2017). <i>Angewandte Chemie</i> , 2017 , 129, 1701-1701	3.6	
399	Catalytic Oxychlorination versus Oxybromination for Methane Functionalization. <i>ACS Catalysis</i> , 2017 , 7, 1805-1817	13.1	41
398	Halogen-Mediated Conversion of Hydrocarbons to Commodities. <i>Chemical Reviews</i> , 2017 , 117, 4182-4248	178.1	176
397	Bifunctional Hierarchical Zeolite-Supported Silver Catalysts for the Conversion of Glycerol to Allyl Alcohol. <i>ChemCatChem</i> , 2017 , 9, 2195-2202	5.2	17
396	Stabilization of Single Metal Atoms on Graphitic Carbon Nitride. <i>Advanced Functional Materials</i> , 2017 , 27, 1605785	15.6	172
395	Catalysts: Stabilization of Single Metal Atoms on Graphitic Carbon Nitride (Adv. Funct. Mater. 8/2017). <i>Advanced Functional Materials</i> , 2017 , 27,	15.6	2
394	Pore Topology Effects in Positron Annihilation Spectroscopy of Zeolites. <i>ChemPhysChem</i> , 2017 , 18, 428-428	3.2	3
393	Advanced kinetic models through mechanistic understanding: Population balances for methylenedianiline synthesis. <i>Chemical Engineering Science</i> , 2017 , 167, 317-326	4.4	2
392	On the influence of Si:Al ratio and hierarchical porosity of FAU zeolites in solid acid catalysed esterification pretreatment of bio-oil. <i>Biomass Conversion and Biorefinery</i> , 2017 , 7, 331-342	2.3	36
391	Design of a technical MgAl mixed oxide catalyst for the continuous manufacture of glycerol carbonate. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16200-16211	13	33
390	Solvothermally-Prepared Cu O Electrocatalysts for CO Reduction with Tunable Selectivity by the Introduction of p-Block Elements. <i>ChemSusChem</i> , 2017 , 10, 1255-1265	8.3	36
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