

AVELINO CORMA

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.

1,307
papers

127,477
citations

160
h-index

307
g-index

1,351
ext. papers

137,504
ext. citations

8.7
avg, IF

9.07
L-index

#	Paper	IF	Citations
1307	Direct assessment of confinement effect in zeolite-encapsulated subnanometric metal species.. <i>Nature Communications</i> , 2022 , 13, 821	17.4	5
1306	Molecularly Engineering Defective Basal Planes in Molybdenum Sulfide for the Direct Synthesis of Benzimidazoles by Reductive Coupling of Dinitroarenes with Aldehydes.. <i>Jacs Au</i> , 2022 , 2, 601-612		3
1305	Active and Regioselective Ru Single-Site Heterogeneous Catalysts for Alpha-Olefin Hydroformylation. <i>ACS Catalysis</i> , 2022 , 12, 4182-4193	13.1	3
1304	Coordinatively Unsaturated Hf-MOF-808 Prepared via Hydrothermal Synthesis as a Bifunctional Catalyst for the Tandem N-Alkylation of Amines with Benzyl Alcohol. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 15793-15806	8.3	3
1303	Data-Driven Design of Biselective Templates for Intergrowth Zeolites. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 10689-10694	6.4	1
1302	Radical Alkylation of ketones with unactivated alkenes under catalytic and sustainable industrial conditions. <i>Applied Catalysis A: General</i> , 2021 , 613, 118021	5.1	1
1301	Discovering Relationships between OSDAs and Zeolites through Data Mining and Generative Neural Networks. <i>ACS Central Science</i> , 2021 , 7, 858-867	16.8	21
1300	Metalloenzyme-Inspired Ce-MOF Catalyst for Oxidative Halogenation Reactions. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 31021-31030	9.5	3
1299	In-Situ-Generated Active Hf-hydride in Zeolites for the Tandem N-Alkylation of Amines with Benzyl Alcohol. <i>ACS Catalysis</i> , 2021 , 11, 8049-8061	13.1	11
1298	Tuning the Catalytic Performance of Cobalt Nanoparticles by Tungsten Doping for Efficient and Selective Hydrogenation of Quinolines under Mild Conditions. <i>ACS Catalysis</i> , 2021 , 11, 8197-8210	13.1	13
1297	Single-Site vs. Cluster Catalysis in High Temperature Oxidations. <i>Angewandte Chemie</i> , 2021 , 133, 16090-16098	16.98	0
1296	Synthesis and Structure of a 22 Å 2 × 2 Extra-Large Pore Zeolite ITQ-56 Determined by 3D Electron Diffraction. <i>Journal of the American Chemical Society</i> , 2021 , 143, 8713-8719	16.4	4
1295	Single-Site vs. Cluster Catalysis in High Temperature Oxidations. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 15954-15962	16.4	7
1294	Deciphering the photobehaviour of ensemble and single crystals of Zr-based ITQ MOF composites. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021 , 404, 112887	4.7	2
1293	Magnetic graphene oxide as a platform for the immobilization of cellulases and xylanases: Ultrastructural characterization and assessment of lignocellulosic biomass hydrolysis. <i>Renewable Energy</i> , 2021 , 164, 491-501	8.1	21
1292	Zr-MOF-808 as Catalyst for Amide Esterification. <i>Chemistry - A European Journal</i> , 2021 , 27, 4588-4598	4.8	14
1291	Confining isolated atoms and clusters in crystalline porous materials for catalysis. <i>Nature Reviews Materials</i> , 2021 , 6, 244-263	73.3	75

1290	The Limits of the Confinement Effect Associated to Cage Topology on the Control of the MTO Selectivity. <i>ChemCatChem</i> , 2021 , 13, 1578-1586	5.2	6
1289	Tutorial: structural characterization of isolated metal atoms and subnanometric metal clusters in zeolites. <i>Nature Protocols</i> , 2021 , 16, 1871-1906	18.8	9
1288	Cobalt nanoclusters coated with N-doped carbon for chemoselective nitroarene hydrogenation and tandem reactions in water. <i>Green Chemistry</i> , 2021 , 23, 4490-4501	10	12
1287	Tailoring Lewis/Bronsted acid properties of MOF nodes hydrothermal and solvothermal synthesis: simple approach with exceptional catalytic implications. <i>Chemical Science</i> , 2021 , 12, 10106-10115	9.4	5
1286	Controlling the selectivity of bimetallic platinum/ruthenium nanoparticles supported on N-doped graphene by adjusting their metal composition. <i>Catalysis Science and Technology</i> , 2021 , 11, 494-505	5.5	4
1285	Activation and conversion of alkanes in the confined space of zeolite-type materials. <i>Chemical Society Reviews</i> , 2021 , 50, 8511-8595	58.5	23
1284	Bimetallic CuFe nanoparticles as active and stable catalysts for chemoselective hydrogenation of biomass-derived platform molecules. <i>Catalysis Science and Technology</i> , 2021 , 11, 3353-3363	5.5	2
1283	Microporous 3D graphitic carbons obtained by soft templating as carbocatalysts for aerobic oxidation. <i>Applied Catalysis A: General</i> , 2021 , 612, 118014	5.1	0
1282	Structural transformations of solid electrocatalysts and photocatalysts. <i>Nature Reviews Chemistry</i> , 2021 , 5, 256-276	34.6	30
1281	Design and Synthesis of the Active Site Environment in Zeolite Catalysts for Selectively Manipulating Mechanistic Pathways. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10718-10726	16.4	4
1280	Isolated metal atoms and clusters for alkane activation: Translating knowledge from enzymatic and homogeneous to heterogeneous systems. <i>CheM</i> , 2021 , 7, 2347-2384	16.2	7
1279	A priori control of zeolite phase competition and intergrowth with high-throughput simulations. <i>Science</i> , 2021 , 374, 308-315	33.3	20
1278	A Lamellar MWW Zeolite With Silicon and Niobium Oxide Pillars: A Catalyst for the Oxidation of Volatile Organic Compounds. <i>Chemistry - A European Journal</i> , 2020 , 26, 10459-10470	4.8	2
1277	A Bifunctional Metal/Acid Catalyst for One-pot Multistep Synthesis of Pharmaceuticals. <i>Petroleum Chemistry</i> , 2020 , 60, 499-507	1.1	
1276	Structural modulation and direct measurement of subnanometric bimetallic PtSn clusters confined in zeolites. <i>Nature Catalysis</i> , 2020 , 3, 628-638	36.5	71
1275	Ultrastable Magnetic Nanoparticles Encapsulated in Carbon for Magnetically Induced Catalysis. <i>ACS Applied Nano Materials</i> , 2020 , 3, 7076-7087	5.6	12
1274	Evolution of Isolated Atoms and Clusters in Catalysis. <i>Trends in Chemistry</i> , 2020 , 2, 383-400	14.8	60
1273	Regioselective Generation of Single-Site Iridium Atoms and Their Evolution into Stabilized Subnanometric Iridium Clusters in MWW Zeolite. <i>Angewandte Chemie</i> , 2020 , 132, 15825-15832	3.6	3

1272	Impact of Zeolite Framework Composition and Flexibility on Methanol-To-Olefins Selectivity: Confinement or Diffusion?. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19708-19715	16.4	27
1271	Regioselective Generation of Single-Site Iridium Atoms and Their Evolution into Stabilized Subnanometric Iridium Clusters in MWW Zeolite. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15695-15702	16.4	25
1270	Synthesis, Structure, Reactivity and Catalytic Implications of a Cationic, Acetylide-Bridged Trigold-JohnPhos Species. <i>Chemistry - A European Journal</i> , 2020 , 26, 8810-8818	4.8	1
1269	Synthesis of a hybrid Pd0/Pd-carbide/carbon catalyst material with high selectivity for hydrogenation reactions. <i>Journal of Catalysis</i> , 2020 , 389, 706-713	7.3	7
1268	Production of chiral alcohols from racemic mixtures by integrated heterogeneous chemoenzymatic catalysis in fixed bed continuous operation. <i>Green Chemistry</i> , 2020 , 22, 2767-2777	10	11
1267	Chemoenzymatic Synthesis of 5-Hydroxymethylfurfural (HMF)-Derived Plasticizers by Coupling HMF Reduction with Enzymatic Esterification. <i>ChemSusChem</i> , 2020 , 13, 1864-1875	8.3	13
1266	Synthesis of isomorphically substituted Ru manganese molecular sieves and their catalytic properties for selective alcohol oxidation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3771-3784	13	9
1265	Metal-Organic Frameworks as Chemical Nanoreactors: Synthesis and Stabilization of Catalytically Active Metal Species in Confined Spaces. <i>Accounts of Chemical Research</i> , 2020 , 53, 520-531	24.3	45
1264	Covalent Immobilization of Naringinase over Two-Dimensional 2D Zeolites and its Applications in a Continuous Process to Produce Citrus Flavonoids and for Debitting of Juices. <i>ChemCatChem</i> , 2020 , 12, 4502-4511	5.2	7
1263	Zeolite-Assisted Lignin-First Fractionation of Lignocellulose: Overcoming Lignin Recondensation through Shape-Selective Catalysis. <i>ChemSusChem</i> , 2020 , 13, 4528-4536	8.3	9
1262	Deactivation and regeneration studies on Pd-containing medium pore zeolites as passive NOx adsorbers (PNAs) in cold-start applications. <i>Microporous and Mesoporous Materials</i> , 2020 , 302, 110222	5.3	15
1261	Transforming Methyl Levulinate into Biosurfactants and Biolubricants by Chemoselective Reductive Etherification with Fatty Alcohols. <i>ChemSusChem</i> , 2020 , 13, 707-714	8.3	11
1260	Unraveling the Reaction Mechanism and Active Sites of Metal-Organic Frameworks for Glucose Transformations in Water: Experimental and Theoretical Studies. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 16143-16155	8.3	9
1259	Propene Production by Butene Cracking. Descriptors for Zeolite Catalysts. <i>ACS Catalysis</i> , 2020 , 10, 11878-11891	11.8	13
1258	Direct synthesis of the organic and Ge free Al containing BOG zeolite (ITQ-47) and its application for transformation of biomass derived molecules. <i>Chemical Science</i> , 2020 , 11, 12103-12108	9.4	2
1257	Applications of Zeolites to C1 Chemistry: Recent Advances, Challenges, and Opportunities. <i>Advanced Materials</i> , 2020 , 32, e2002927	24	61
1256	Production of aromatics from biomass by computer-aided selection of the zeolite catalyst. <i>Green Chemistry</i> , 2020 , 22, 5123-5131	10	9
1255	Insights into Adsorption of Linear, Monobranched, and Dibranched Alkanes on Pure Silica STW Zeolite as a Promising Material for Their Separation. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 26821-26829	28.8	5

1254	Molecular Oxygen Lignin Depolymerization: An Insight into the Stability of Phenolic Monomers. <i>ChemSusChem</i> , 2020 , 13, 4743-4758	8.3	4
1253	Atomic-level understanding on the evolution behavior of subnanometric Pt and Sn species during high-temperature treatments for generation of dense PtSn clusters in zeolites. <i>Journal of Catalysis</i> , 2020 , 391, 11-24	7.3	15
1252	Cobalt Metal-Organic Framework Based on Layered Double Nanosheets for Enhanced Electrocatalytic Water Oxidation in Neutral Media. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19198-19208	16.4	22
1251	Titanosilicate zeolite precursors for highly efficient oxidation reactions. <i>Chemical Science</i> , 2020 , 11, 12341-12349	11.4	13
1250	The Crucial Role of Cluster Morphology on the Epoxidation of Propene Catalyzed by Cu5: A DFT Study. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 21549-21558	3.8	5
1249	Selective active site placement in Lewis acid zeolites and implications for catalysis of oxygenated compounds. <i>Chemical Science</i> , 2020 , 11, 10225-10235	9.4	12
1248	Impact of Zeolite Framework Composition and Flexibility on Methanol-To-Olefins Selectivity: Confinement or Diffusion?. <i>Angewandte Chemie</i> , 2020 , 132, 19876-19883	3.6	8
1247	Machine Learning Applied to Zeolite Synthesis: The Missing Link for Realizing High-Throughput Discovery. <i>Accounts of Chemical Research</i> , 2019 , 52, 2971-2980	24.3	47
1246	From metal-supported oxides to well-defined metal site zeolites: the next generation of passive NOx adsorbers for low-temperature control of emissions from diesel engines. <i>Reaction Chemistry and Engineering</i> , 2019 , 4, 223-234	4.9	41
1245	Synthesis of 2D and 3D MOFs with tuneable Lewis acidity from preformed 1D hybrid sub-domains. <i>Chemical Science</i> , 2019 , 10, 2053-2066	9.4	17
1244	Zr-MOF-808@MCM-41 catalyzed phosgene-free synthesis of polyurethane precursors. <i>Catalysis Science and Technology</i> , 2019 , 9, 146-156	5.5	36
1243	Selective synthesis of citrus flavonoids prunin and naringenin using heterogeneized biocatalyst on graphene oxide. <i>Green Chemistry</i> , 2019 , 21, 839-849	10	23
1242	Generation of gold nanoclusters encapsulated in an MCM-22 zeolite for the aerobic oxidation of cyclohexane. <i>Chemical Communications</i> , 2019 , 55, 1607-1610	5.8	29
1241	Control of the Reaction Mechanism of Alkylaromatics Transalkylation by Means of Molecular Confinement Effects Associated to Zeolite Channel Architecture. <i>ACS Catalysis</i> , 2019 , 9, 5935-5946	13.1	16
1240	One-pot co-crystallization of beta and pentasil nanozeolites for the direct conversion of a heavy reformat fraction into xylenes. <i>Applied Catalysis A: General</i> , 2019 , 581, 11-22	5.1	7
1239	A Machine Learning Approach to Zeolite Synthesis Enabled by Automatic Literature Data Extraction. <i>ACS Central Science</i> , 2019 , 5, 892-899	16.8	96
1238	Silver nanocluster in zeolites. ADSORPTION of ETHYLENE traces for fruit preservation. <i>Microporous and Mesoporous Materials</i> , 2019 , 283, 25-30	5.3	16
1237	Nanolayered cobalt-molybdenum sulphides (Co-Mo-S) catalyse borrowing hydrogen C-S bond formation reactions of thiols or HS with alcohols. <i>Chemical Science</i> , 2019 , 10, 3130-3142	9.4	11

1236	The influence of ethanol-assisted washes to obtain swollen and pillared MWW-type zeolite with high degree ordering of lamellar structure. <i>Microporous and Mesoporous Materials</i> , 2019 , 275, 26-30	5.3	1
1235	Conceptual similarities between zeolites and artificial enzymes. <i>Chemical Science</i> , 2019 , 10, 8009-8015	9.4	13
1234	Regioselective generation and reactivity control of subnanometric platinum clusters in zeolites for high-temperature catalysis. <i>Nature Materials</i> , 2019 , 18, 866-873	27	182
1233	Determination of the Evolution of Heterogeneous Single Metal Atoms and Nanoclusters under Reaction Conditions: Which Are the Working Catalytic Sites?. <i>ACS Catalysis</i> , 2019 , 9, 10626-10639	13.1	100
1232	Synthesis of High-Silica Erionite Driven by Computational Screening of Hypothetical Zeolites. <i>Chemistry of Materials</i> , 2019 , 31, 9268-9276	9.6	6
1231	Chemicals from Biomass: Selective Synthesis of N-Substituted Furfuryl Amines by the One-Pot Direct Reductive Amination of Furanic Aldehydes. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 6243-6250	8.3	34
1230	Low-Temperature Catalytic NO Reduction with CO by Subnanometric Pt Clusters. <i>ACS Catalysis</i> , 2019 , 9, 11530-11541	13.1	38
1229	Chemical and Structural Parameter Connecting Cavity Architecture, Confined Hydrocarbon Pool Species, and MTO Product Selectivity in Small-Pore Cage-Based Zeolites. <i>ACS Catalysis</i> , 2019 , 9, 11542-11551	13.1	25
1228	Hydrothermal Synthesis of Ruthenium Nanoparticles with a Metallic Core and a Ruthenium Carbide Shell for Low-Temperature Activation of CO to Methane. <i>Journal of the American Chemical Society</i> , 2019 , 141, 19304-19311	16.4	47
1227	Methane hydrates: Nucleation in microporous materials. <i>Chemical Engineering Journal</i> , 2019 , 360, 569-576	14.7	44
1226	What Is Measured When Measuring Acidity in Zeolites with Probe Molecules?. <i>ACS Catalysis</i> , 2019 , 9, 1539-1548	13.1	76
1225	Base-Controlled Heck, Suzuki, and Sonogashira Reactions Catalyzed by Ligand-Free Platinum or Palladium Single Atom and Sub-Nanometer Clusters. <i>Journal of the American Chemical Society</i> , 2019 , 141, 1928-1940	16.4	65
1224	Crystallization of AEI and AFX zeolites through zeolite-to-zeolite transformations. <i>Microporous and Mesoporous Materials</i> , 2019 , 278, 105-114	5.3	16
1223	Modulating the catalytic behavior of non-noble metal nanoparticles by inter-particle interaction for chemoselective hydrogenation of nitroarenes into corresponding azoxy or azo compounds. <i>Journal of Catalysis</i> , 2019 , 369, 312-323	7.3	26
1222	Generation and Reactivity of Electron-Rich Carbenes on the Surface of Catalytic Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3215-3218	16.4	29
1221	Direct Synthesis of Nano-Ferrierite along the 10-Ring-Channel Direction Boosts Their Catalytic Behavior. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3459-3463	16.4	33
1220	Exploring the Photodynamics of a New 2D-MOF Composite: Nile Red@Al-ITQ-HB. <i>ACS Omega</i> , 2018 , 3, 1600-1608	3.9	8
1219	Synthese von Zeolithen aus vorkristallisierten Bausteinen: Architektur im Nanomaßstab. <i>Angewandte Chemie</i> , 2018 , 130, 15554-15578	3.6	10

1218	Direct Synthesis of Nano-Ferrierite along the 10-Ring-Channel Direction Boosts Their Catalytic Behavior. <i>Angewandte Chemie</i> , 2018 , 130, 3517-3521	3.6	4
1217	Modeling of EPR Parameters for Cu(II): Application to the Selective Reduction of NO _x Catalyzed by Cu-Zeolites. <i>Topics in Catalysis</i> , 2018 , 61, 810-832	2.3	12
1216	Metal Catalysts for Heterogeneous Catalysis: From Single Atoms to Nanoclusters and Nanoparticles. <i>Chemical Reviews</i> , 2018 , 118, 4981-5079	68.1	1947
1215	Synthesis of Densely Packaged, Ultrasmall Pt Clusters within a Thioether-Functionalized MOF: Catalytic Activity in Industrial Reactions at Low Temperature. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 6186-6191	16.4	89
1214	Nanolayered Cobalt-Molybdenum Sulfides as Highly Chemo- and Regioselective Catalysts for the Hydrogenation of Quinoline Derivatives. <i>ACS Catalysis</i> , 2018 , 8, 4545-4557	13.1	52
1213	Synthesis and structure determination via ultra-fast electron diffraction of the new microporous zeolitic germanosilicate ITQ-62. <i>Chemical Communications</i> , 2018 , 54, 2122-2125	5.8	16
1212	Mutual Valorization of 5-Hydroxymethylfurfural and Glycerol into Valuable Diol Monomers with Solid Acid Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 4239-4245	8.3	27
1211	Evolution and stabilization of subnanometric metal species in confined space by in situ TEM. <i>Nature Communications</i> , 2018 , 9, 574	17.4	93
1210	Building Zeolites from Precrystallized Units: Nanoscale Architecture. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15330-15353	16.4	81
1209	Advances in One-Pot Synthesis through Borrowing Hydrogen Catalysis. <i>Chemical Reviews</i> , 2018 , 118, 1410-1459	68.1	486
1208	Sunlight-assisted hydrogenation of CO ₂ into ethanol and C ₂ + hydrocarbons by sodium-promoted Co@C nanocomposites. <i>Applied Catalysis B: Environmental</i> , 2018 , 235, 186-196	21.8	70
1207	Frontispiece: Organic-Inorganic Hybrid Materials: Multi-Functional Solids for Multi-Step Reaction Processes. <i>Chemistry - A European Journal</i> , 2018 , 24,	4.8	1
1206	Ionic Hydrogel Based on Chitosan Cross-Linked with 6-Phosphogluconic Trisodium Salt as a Drug Delivery System. <i>Biomacromolecules</i> , 2018 , 19, 1294-1304	6.9	28
1205	Growth-modulating agents for the synthesis of Al-MOF-type materials based on assembled 1D structural subdomains. <i>Dalton Transactions</i> , 2018 , 47, 5492-5502	4.3	7
1204	Increasing the stability of the Ge-containing extra-large pore ITQ-33 zeolite by post-synthetic acid treatments. <i>Microporous and Mesoporous Materials</i> , 2018 , 267, 35-42	5.3	13
1203	Co-processing of lignocellulosic biocrude with petroleum gas oils. <i>Applied Catalysis A: General</i> , 2018 , 551, 139-145	5.1	16
1202	Direct crude oil cracking for producing chemicals: Thermal cracking modeling. <i>Fuel</i> , 2018 , 211, 726-736	7.1	30
1201	Making Nanosized CHA Zeolites with Controlled Al Distribution for Optimizing Methanol-to-Olefin Performance. <i>Chemistry - A European Journal</i> , 2018 , 24, 14631-14635	4.8	38

1200	Synthesis of reaction-adapted zeolites as methanol-to-olefins catalysts with mimics of reaction intermediates as organic structure-directing agents. <i>Nature Catalysis</i> , 2018 , 1, 547-554	36.5	73
1199	Selective Introduction of Acid Sites in Different Confined Positions in ZSM-5 and Its Catalytic Implications. <i>ACS Catalysis</i> , 2018 , 8, 7688-7697	13.1	88
1198	Nanosized MCM-22 zeolite using simple non-surfactant organic growth modifiers: synthesis and catalytic applications. <i>Chemical Communications</i> , 2018 , 54, 9989-9992	5.8	11
1197	Dandelion-Like Microspherical MCM-22 Zeolite Using BP 2000 as a Hard Template. <i>ACS Omega</i> , 2018 , 3, 6217-6223	3.9	8
1196	Hf-based metal-organic frameworks as acid-base catalysts for the transformation of biomass-derived furanic compounds into chemicals. <i>Green Chemistry</i> , 2018 , 20, 3081-3091	10	49
1195	Alternative to visbreaking or delayed coking of heavy crude oil through a short contact time, solid transported bed cracking process. <i>Catalysis Science and Technology</i> , 2018 , 8, 540-550	5.5	5
1194	Organic-Inorganic Hybrid Materials: Multi-Functional Solids for Multi-Step Reaction Processes. <i>Chemistry - A European Journal</i> , 2018 , 24, 3944-3958	4.8	39
1193	Synthesis of cocrystallized USY/ZSM-5 zeolites from kaolin and its use as fluid catalytic cracking catalysts. <i>Catalysis Science and Technology</i> , 2018 , 8, 716-725	5.5	17
1192	Synthesis of lactones from easily and accessible reactants catalyzed by Cu-MnO _x catalysts. <i>Comptes Rendus Chimie</i> , 2018 , 21, 164-173	2.7	7
1191	Catalytic Transfer Hydrogenation of Biomass-Derived Carbonyls over Hafnium-Based Metal-Organic Frameworks. <i>ChemSusChem</i> , 2018 , 11, 432-438	8.3	91
1190	Femto-to nanosecond photodynamics of Nile Red in metal-ion exchanged faujasites. <i>Microporous and Mesoporous Materials</i> , 2018 , 256, 214-226	5.3	10
1189	Chiral hybrid materials based on pyrrolidine building units to perform asymmetric Michael additions with high stereocontrol. <i>Catalysis Science and Technology</i> , 2018 , 8, 5835-5847	5.5	7
1188	Confined Pt Water Clusters in a MOF Catalyze the Low-Temperature Water-Gas Shift Reaction with both CO Oxygen Atoms Coming from Water. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 17094-17099	16.4	35
1187	Stabilized Ru[(H ₂ O) ₆] ³⁺ in Confined Spaces (MOFs and Zeolites) Catalyzes the Imination of Primary Alcohols under Atmospheric Conditions with Wide Scope. <i>ACS Catalysis</i> , 2018 , 8, 10401-10406	13.1	19
1186	Hf-based Metal-Organic Frameworks in Heterogeneous Catalysis. <i>Israel Journal of Chemistry</i> , 2018 , 58, 1062-1074	3.4	15
1185	Hydrogenation of CO ₂ on Nickel-Iron Nanoparticles Under Sunlight Irradiation. <i>Topics in Catalysis</i> , 2018 , 61, 1810-1819	2.3	9
1184	Double A-Coupling of Primary Amines Catalysed by Gold Complexes. <i>Chemistry - A European Journal</i> , 2018 , 24, 16356-16367	4.8	8
1183	Unraveling Competitive Electron and Energy-Transfer Events at the Interfaces of a 2D MOF and Nile Red Composites: Effect of the Length and Structure of the Linker. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 32885-32894	9.5	8

1182	Trapping of Metal Atoms and Metal Clusters by Chabazite under Severe Redox Stress. <i>ACS Catalysis</i> , 2018 , 8, 9520-9528	13.1	30
1181	How Does the Surface of Al-ITQ-HB 2D-MOF Condition the Intermolecular Interactions of an Adsorbed Organic Molecule?. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 20159-20169	9.5	5
1180	A new molecular pathway allows the chemoselective reduction of nitroaromatics on non-noble metal catalysts. <i>Journal of Catalysis</i> , 2018 , 364, 19-30	7.3	49
1179	One-Pot Synthesis of Biomass-Derived Surfactants by Reacting Hydroxymethylfurfural, Glycerol, and Fatty Alcohols on Solid Acid Catalysts. <i>ChemSusChem</i> , 2018 , 11, 2870-2880	8.3	15
1178	Isolated Fe(III)-O Sites Catalyze the Hydrogenation of Acetylene in Ethylene Flows under Front-End Industrial Conditions. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8827-8832	16.4	50
1177	Opportunities in upgrading biomass crudes. <i>Faraday Discussions</i> , 2017 , 197, 389-401	3.6	13
1176	Cerium oxide as a catalyst for the ketonization of aldehydes: mechanistic insights and a convenient way to alkanes without the consumption of external hydrogen. <i>Green Chemistry</i> , 2017 , 19, 1555-1569	10	28
1175	Production of High Quality Syncrude from Lignocellulosic Biomass. <i>ChemCatChem</i> , 2017 , 9, 1574-1578	5.2	9
1174	Iron-Containing SSZ-39 (AEI) Zeolite: An Active and Stable High-Temperature NH ₃ -SCR Catalyst. <i>ChemCatChem</i> , 2017 , 9, 1754-1757	5.2	37
1173	"Ab initio" synthesis of zeolites for preestablished catalytic reactions. <i>Science</i> , 2017 , 355, 1051-1054	33.3	154
1172	Nanolayered CoMoS Catalysts for the Chemoselective Hydrogenation of Nitroarenes. <i>ACS Catalysis</i> , 2017 , 7, 2698-2708	13.1	77
1171	Functional Acid and Base Hybrid Catalysts Organized by Associated (Organo)aluminosilicate Layers for C-C Bond Forming Reactions and Tandem Processes. <i>Chemistry of Materials</i> , 2017 , 29, 1599-1612	9.6	20
1170	Enhanced Stability of Cu Clusters of Low Atomicity against Oxidation. Effect on the Catalytic Redox Process. <i>ACS Catalysis</i> , 2017 , 7, 3560-3568	13.1	38
1169	Hydrocarbon conversion in the production of synthetic fuels: general discussion. <i>Faraday Discussions</i> , 2017 , 197, 473-489	3.6	
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