

AVELINO CORMA

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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	Synthesis of transportation fuels from biomass: chemistry, catalysts, and engineering. <i>Chemical Reviews</i> , 2006 , 106, 4044-98	68.1	5998
1306	From Microporous to Mesoporous Molecular Sieve Materials and Their Use in Catalysis. <i>Chemical Reviews</i> , 1997 , 97, 2373-2420	68.1	4902
1305	Chemical routes for the transformation of biomass into chemicals. <i>Chemical Reviews</i> , 2007 , 107, 2411-5028	68.1	4659
1304	Engineering metal organic frameworks for heterogeneous catalysis. <i>Chemical Reviews</i> , 2010 , 110, 4606-58	68.1	2969
1303	Inorganic Solid Acids and Their Use in Acid-Catalyzed Hydrocarbon Reactions. <i>Chemical Reviews</i> , 1995 , 95, 559-614	68.1	2564
1302	Metal Catalysts for Heterogeneous Catalysis: From Single Atoms to Nanoclusters and Nanoparticles. <i>Chemical Reviews</i> , 2018 , 118, 4981-5079	68.1	1947
1301	Supported gold nanoparticles as catalysts for organic reactions. <i>Chemical Society Reviews</i> , 2008 , 37, 2096-126	58.3	1579
1300	Metal-organic framework nanosheets in polymer composite materials for gas separation. <i>Nature Materials</i> , 2015 , 14, 48-55	27	1454
1299	Chemoselective hydrogenation of nitro compounds with supported gold catalysts. <i>Science</i> , 2006 , 313, 332-4	33.3	1267
1298	Gold-catalyzed carbon-heteroatom bond-forming reactions. <i>Chemical Reviews</i> , 2011 , 111, 1657-712	68.1	1133
1297	Synergies between bio- and oil refineries for the production of fuels from biomass. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 7184-201	16.4	1103
1296	Conversion of biomass platform molecules into fuel additives and liquid hydrocarbon fuels. <i>Green Chemistry</i> , 2014 , 16, 516	10	983
1295	State of the art and future challenges of zeolites as catalysts. <i>Journal of Catalysis</i> , 2003 , 216, 298-312	7.3	953
1294	A collaborative effect between gold and a support induces the selective oxidation of alcohols. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 4066-9	16.4	913
1293	Lewis acids: from conventional homogeneous to green homogeneous and heterogeneous catalysis. <i>Chemical Reviews</i> , 2003 , 103, 4307-65	68.1	872
1292	Sn-zeolite beta as a heterogeneous chemoselective catalyst for Baeyer-Villiger oxidations. <i>Nature</i> , 2001 , 412, 423-5	50.4	765
1291	Metal Organic Framework Catalysis: Quo vadis?. <i>ACS Catalysis</i> , 2014 , 4, 361-378	13.1	756

1290	Nanocrystalline CeO ₂ increases the activity of Au for CO oxidation by two orders of magnitude. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 2538-40	16.4	743
1289	Delaminated zeolite precursors as selective acidic catalysts. <i>Nature</i> , 1998 , 396, 353-356	50.4	722
1288	Hierarchically mesostructured doped CeO ₂ with potential for solar-cell use. <i>Nature Materials</i> , 2004 , 3, 394-7	27	683
1287	Synthesis of an ultralarge pore titanium silicate isomorphous to MCM-41 and its application as a catalyst for selective oxidation of hydrocarbons. <i>Journal of the Chemical Society Chemical Communications</i> , 1994 , 147		642
1286	Heterogeneous catalysts for the one-pot synthesis of chemicals and fine chemicals. <i>Chemical Reviews</i> , 2011 , 111, 1072-133	68.1	621
1285	Water stable Zr-benzenedicarboxylate metal-organic frameworks as photocatalysts for hydrogen generation. <i>Chemistry - A European Journal</i> , 2010 , 16, 11133-8	4.8	613
1284	Titania supported gold nanoparticles as photocatalyst. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 886-910	3.6	597
1283	Spectroscopic evidence for the supply of reactive oxygen during CO oxidation catalyzed by gold supported on nanocrystalline CeO ₂ . <i>Journal of the American Chemical Society</i> , 2005 , 127, 3286-7	16.4	588
1282	Silica-Bound Homogenous Catalysts as Recoverable and Reusable Catalysts in Organic Synthesis. <i>Advanced Synthesis and Catalysis</i> , 2006 , 348, 1391-1412	5.6	579
1281	Gold-catalyzed synthesis of aromatic azo compounds from anilines and nitroaromatics. <i>Science</i> , 2008 , 322, 1661-4	33.3	564
1280	Acidity and Stability of MCM-41 Crystalline Aluminosilicates. <i>Journal of Catalysis</i> , 1994 , 148, 569-574	7.3	548
1279	Synthesis, Characterization, and Catalytic Activity of Ti-MCM-41 Structures. <i>Journal of Catalysis</i> , 1995 , 156, 65-74	7.3	542
1278	Lewis acids as catalysts in oxidation reactions: from homogeneous to heterogeneous systems. <i>Chemical Reviews</i> , 2002 , 102, 3837-92	68.1	537
1277	Advances in One-Pot Synthesis through Borrowing Hydrogen Catalysis. <i>Chemical Reviews</i> , 2018 , 118, 1410-1459	68.1	486
1276	Converting carbohydrates to bulk chemicals and fine chemicals over heterogeneous catalysts. <i>Green Chemistry</i> , 2011 , 13, 520	10	484
1275	Inorganic molecular sieves: Preparation, modification and industrial application in catalytic processes. <i>Coordination Chemistry Reviews</i> , 2011 , 255, 1558-1580	23.2	471
1274	Processing biomass in conventional oil refineries: Production of high quality diesel by hydrotreating vegetable oils in heavy vacuum oil mixtures. <i>Applied Catalysis A: General</i> , 2007 , 329, 120-129	5.1	468
1273	A large-cavity zeolite with wide pore windows and potential as an oil refining catalyst. <i>Nature</i> , 2002 , 418, 514-7	50.4	464

1272	The ITQ-37 mesoporous chiral zeolite. <i>Nature</i> , 2009 , 458, 1154-7	50.4	463
1271	Supramolecular self-assembled molecules as organic directing agent for synthesis of zeolites. <i>Nature</i> , 2004 , 431, 287-90	50.4	453
1270	A different reaction pathway for the reduction of aromatic nitro compounds on gold catalysts. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 7266-9	16.4	445
1269	Processing biomass-derived oxygenates in the oil refinery: Catalytic cracking (FCC) reaction pathways and role of catalyst. <i>Journal of Catalysis</i> , 2007 , 247, 307-327	7.3	443
1268	Photocatalytic CO ₂ reduction by TiO ₂ and related titanium containing solids. <i>Energy and Environmental Science</i> , 2012 , 5, 9217	35.4	442
1267	MOFs as catalysts: Activity, reusability and shape-selectivity of a Pd-containing MOF. <i>Journal of Catalysis</i> , 2007 , 250, 294-298	7.3	441
1266	Transforming nonselective into chemoselective metal catalysts for the hydrogenation of substituted nitroaromatics. <i>Journal of the American Chemical Society</i> , 2008 , 130, 8748-53	16.4	440
1265	High-throughput synthesis and catalytic properties of a molecular sieve with 18- and 10-member rings. <i>Nature</i> , 2006 , 443, 842-5	50.4	410
1264	A Molecular mechanism for the chemoselective hydrogenation of substituted nitroaromatics with nanoparticles of gold on TiO ₂ catalysts: a cooperative effect between gold and the support. <i>Journal of the American Chemical Society</i> , 2007 , 129, 16230-7	16.4	404
1263	Metal-organic frameworks as semiconductors. <i>Journal of Materials Chemistry</i> , 2010 , 20, 3141		401
1262	Extra-large-pore zeolites: bridging the gap between micro and mesoporous structures. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 3120-45	16.4	401
1261	Efficient visible-light photocatalytic water splitting by minute amounts of gold supported on nanoparticulate CeO ₂ obtained by a biopolymer templating method. <i>Journal of the American Chemical Society</i> , 2011 , 133, 6930-3	16.4	386
1260	Biomass into chemicals: aerobic oxidation of 5-hydroxymethyl-2-furfural into 2,5-furandicarboxylic acid with gold nanoparticle catalysts. <i>ChemSusChem</i> , 2009 , 2, 1138-44	8.3	382
1259	Generation of subnanometric platinum with high stability during transformation of a 2D zeolite into 3D. <i>Nature Materials</i> , 2017 , 16, 132-138	27	376
1258	Biomass to chemicals: Catalytic conversion of glycerol/water mixtures into acrolein, reaction network. <i>Journal of Catalysis</i> , 2008 , 257, 163-171	7.3	374
1257	Metal-organic nanoporous structures with anisotropic photoluminescence and magnetic properties and their use as sensors. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 1080-3	16.4	367
1256	Catalyst parameters determining activity and selectivity of supported gold nanoparticles for the aerobic oxidation of alcohols: the molecular reaction mechanism. <i>Chemistry - A European Journal</i> , 2008 , 14, 212-22	4.8	348
1255	Small gold clusters formed in solution give reaction turnover numbers of 10(7) at room temperature. <i>Science</i> , 2012 , 338, 1452-5	33.3	346

1254	Water-resistant solid Lewis acid catalysts: Meerwein-Ponndorf-Verley and Oppenauer reactions catalyzed by tin-beta zeolite. <i>Journal of Catalysis</i> , 2003 , 215, 294-304	7.3	345
1253	Synthesis of new zeolite structures. <i>Chemical Society Reviews</i> , 2015 , 44, 7112-27	58.5	336
1252	Characterization of nanocrystalline zeolite Beta. <i>Microporous and Mesoporous Materials</i> , 1998 , 25, 59-74	5.3	335
1251	Al-free Sn-Beta zeolite as a catalyst for the selective reduction of carbonyl compounds (Meerwein-Ponndorf-Verley reaction). <i>Journal of the American Chemical Society</i> , 2002 , 124, 3194-5	16.4	335
1250	Hydrocracking of Vacuum Gasoil on the Novel Mesoporous MCM-41 Aluminosilicate Catalyst. <i>Journal of Catalysis</i> , 1995 , 153, 25-31	7.3	334
1249	Direct Synthesis and Characterization of Hydrophobic Aluminum-Free TiBeta Zeolite. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 75-88	3.4	331
1248	Applications for Metal-Organic Frameworks (MOFs) as Quantum Dot Semiconductors. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 80-85	3.8	328
1247	Exceptional oxidation activity with size-controlled supported gold clusters of low atomicity. <i>Nature Chemistry</i> , 2013 , 5, 775-81	17.6	322
1246	Natural gas treating by selective adsorption: Material science and chemical engineering interplay. <i>Chemical Engineering Journal</i> , 2009 , 155, 553-566	14.7	320
1245	Chemistry, Catalysts, and Processes for Isoparaffin-Olefin Alkylation: Actual Situation and Future Trends. <i>Catalysis Reviews - Science and Engineering</i> , 1993 , 35, 483-570	12.6	315
1244	Synthesis and structure determination of the hierarchical meso-microporous zeolite ITQ-43. <i>Science</i> , 2011 , 333, 1131-4	33.3	312
1243	Hydrothermal stabilization of ZSM-5 catalytic-cracking additives by phosphorus addition. <i>Journal of Catalysis</i> , 2006 , 237, 267-277	7.3	311
1242	Production of high-quality diesel from biomass waste products. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 2375-8	16.4	308
1241	2010,		307
1240	The state of Ti in titanosilicates isomorphous with zeolite .beta.. <i>Journal of the American Chemical Society</i> , 1993 , 115, 11806-11813	16.4	305
1239	Synthesis of a titaniumsilicoaluminate isomorphous to zeolite beta and its application as a catalyst for the selective oxidation of large organic molecules. <i>Journal of the Chemical Society Chemical Communications</i> , 1992 , 589-590		304
1238	Base Catalysis for Fine Chemicals Production: Claisen-Schmidt Condensation on Zeolites and Hydrotalcites for the Production of Chalcones and Flavanones of Pharmaceutical Interest. <i>Journal of Catalysis</i> , 1995 , 151, 60-66	7.3	295
1237	A miniaturized linear pH sensor based on a highly photoluminescent self-assembled europium(III) metal-organic framework. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 6476-9	16.4	293

1236	Chemicals from biomass: Synthesis of glycerol carbonate by transesterification and carbonylation with urea with hydrotalcite catalysts. The role of acid-base pairs. <i>Journal of Catalysis</i> , 2010 , 269, 140-149	7.3	286
1235	Synthesis and characterization of the MCM-22 zeolite. <i>Zeolites</i> , 1995 , 15, 2-8		286
1234	Current views on the mechanism of catalytic cracking. <i>Microporous and Mesoporous Materials</i> , 2000 , 35-36, 21-30	5.3	282
1233	MOF catalysis in relation to their homogeneous counterparts and conventional solid catalysts. <i>Chemical Science</i> , 2014 , 5, 2979	9.4	264
1232	Catalysis by gold(I) and gold(III): a parallelism between homo- and heterogeneous catalysts for copper-free Sonogashira cross-coupling reactions. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 1536-8	16.4	262
1231	Increasing the basicity and catalytic activity of hydrotalcites by different synthesis procedures. <i>Journal of Catalysis</i> , 2004 , 225, 316-326	7.3	261
1230	Homogeneous and heterogeneous catalysts for multicomponent reactions. <i>RSC Advances</i> , 2012 , 2, 16-58	5.7	257
1229	Activity of Ti-Beta Catalyst for the Selective Oxidation of Alkenes and Alkanes. <i>Journal of Catalysis</i> , 1994 , 145, 151-158	7.3	257
1228	Gold(III) [metal organic framework bridges the gap between homogeneous and heterogeneous gold catalysts. <i>Journal of Catalysis</i> , 2009 , 265, 155-160	7.3	252
1227	Heterogeneous Catalysis for Tandem Reactions. <i>ACS Catalysis</i> , 2014 , 4, 870-891	13.1	250
1226	Catalytic oxidative desulfurization (ODS) of diesel fuel on a continuous fixed-bed reactor. <i>Journal of Catalysis</i> , 2006 , 242, 299-308	7.3	250
1225	Cracking Activity and Hydrothermal Stability of MCM-41 and Its Comparison with Amorphous Silica-Alumina and a USY Zeolite. <i>Journal of Catalysis</i> , 1996 , 159, 375-382	7.3	249
1224	Metal organic frameworks (MOFs) as catalysts: A combination of Cu ²⁺ and Co ²⁺ MOFs as an efficient catalyst for tetralin oxidation. <i>Journal of Catalysis</i> , 2008 , 255, 220-227	7.3	248
1223	Supported gold catalyzes the homocoupling of phenylboronic acid with high conversion and selectivity. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 2242-5	16.4	248
1222	Reversible Transformation of Pt Nanoparticles into Single Atoms inside High-Silica Chabazite Zeolite. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15743-15750	16.4	247
1221	Synthesis and Structural Characterization of MWW Type Zeolite ITQ-1, the Pure Silica Analog of MCM-22 and SSZ-25. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 44-51	3.4	242
1220	Organic reactions catalyzed over solid acids. <i>Catalysis Today</i> , 1997 , 38, 257-308	5.3	238
1219	Multipore zeolites: synthesis and catalytic applications. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 3560-79	16.4	237

1218	Determination of the catalytically active oxidation Lewis acid sites in Sn-beta zeolites, and their optimisation by the combination of theoretical and experimental studies. <i>Journal of Catalysis</i> , 2005 , 234, 111-118	7.3	237
1217	Determination of base properties of hydrotalcites: Condensation of benzaldehyde with ethyl acetoacetate. <i>Journal of Catalysis</i> , 1992 , 134, 58-65	7.3	237
1216	CO oxidation catalyzed by supported gold: cooperation between gold and nanocrystalline rare-earth supports forms reactive surface superoxide and peroxide species. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 4778-81	16.4	235
1215	Zeolites as base catalysts: Condensation of aldehydes with derivatives of malonic esters. <i>Applied Catalysis</i> , 1990 , 59, 237-248		235
1214	Pure Polymorph C of Zeolite Beta Synthesized by Using Framework Isomorphous Substitution as a Structure-Directing Mechanism. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 2277-2280	16.4	233
1213	Catalysts for the Production of Fine Chemicals. <i>Journal of Catalysis</i> , 1998 , 173, 315-321	7.3	232
1212	Issues in the synthesis of crystalline molecular sieves: towards the crystallization of low framework-density structures. <i>ChemPhysChem</i> , 2004 , 5, 305-13	3.2	231
1211	Spontaneous nucleation and growth of pure silica zeolite- β free of connectivity defects. <i>Chemical Communications</i> , 1996 , 2365	5.8	230
1210	Synthesis of titanoaluminosilicates isomorphous to zeolite Beta, active as oxidation catalysts. <i>Zeolites</i> , 1993 , 13, 82-87		230
1209	Infrared spectroscopic investigation of titanium in zeolites. A new assignment of the 960 cm ⁻¹ band. <i>Journal of the Chemical Society Chemical Communications</i> , 1993 , 557-559		229
1208	Photocatalytic reduction of CO ₂ for fuel production: Possibilities and challenges. <i>Journal of Catalysis</i> , 2013 , 308, 168-175	7.3	227
1207	Supported gold(III) catalysts for highly efficient three-component coupling reactions. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 4358-61	16.4	226
1206	A zeolite with interconnected 8-, 10- and 12-ring pores and its unique catalytic selectivity. <i>Nature Materials</i> , 2003 , 2, 493-7	27	226
1205	Towards the rational design of efficient organic structure-directing agents for zeolite synthesis. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 13880-9	16.4	225
1204	Selective and shape-selective Baeyer-Villiger oxidations of aromatic aldehydes and cyclic ketones with Sn-beta zeolites and H ₂ O ₂ . <i>Chemistry - A European Journal</i> , 2002 , 8, 4708-17	4.8	225
1203	Alkylation of Benzene with Short-Chain Olefins over MCM-22 Zeolite: Catalytic Behaviour and Kinetic Mechanism. <i>Journal of Catalysis</i> , 2000 , 192, 163-173	7.3	224
1202	Hydroisomerization of Pentane, Hexane, and Heptane for Improving the Octane Number of Gasoline. <i>Journal of Catalysis</i> , 1999 , 187, 167-176	7.3	224
1201	Synthesis Strategies for Preparing Useful Small Pore Zeolites and Zeotypes for Gas Separations and Catalysis. <i>Chemistry of Materials</i> , 2014 , 26, 246-258	9.6	222

1200	Solvent Effects during the Oxidation of Olefins and Alcohols with Hydrogen Peroxide on Ti-Beta Catalyst: The Influence of the Hydrophilicity/Hydrophobicity of the Zeolite. <i>Journal of Catalysis</i> , 1996 , 161, 11-19	7.3	221
1199	Chiral salen manganese complex encapsulated within zeolite Y: a heterogeneous enantioselective catalyst for the epoxidation of alkenes. <i>Chemical Communications</i> , 1997 , 1285-1286	5.8	219
1198	Delaminated Zeolites: Combining the Benefits of Zeolites and Mesoporous Materials for Catalytic Uses. <i>Journal of Catalysis</i> , 1999 , 186, 57-63	7.3	218
1197	Supported heteropolyacid (HPW) catalysts for the continuous alkylation of isobutane with 2-butene: The benefit of using MCM-41 with larger pore diameters. <i>Journal of Catalysis</i> , 1998 , 177, 306-313	7.3	217
1196	Accelerated crystallization of zeolites via hydroxyl free radicals. <i>Science</i> , 2016 , 351, 1188-91	33.3	215
1195	Zeolite-based photocatalysts. <i>Chemical Communications</i> , 2004 , 1443-59	5.8	210
1194	Enzyme-like specificity in zeolites: a unique site position in mordenite for selective carbonylation of methanol and dimethyl ether with CO. <i>Journal of the American Chemical Society</i> , 2008 , 130, 16316-23	16.4	209
1193	Production of high quality diesel from cellulose and hemicellulose by the Sylvan process: catalysts and process variables. <i>Energy and Environmental Science</i> , 2012 , 5, 6328	35.4	207
1192	Catalysis using multifunctional organosiliceous hybrid materials. <i>Chemical Society Reviews</i> , 2013 , 42, 4083-97	58.5	206
1191	Biomass into chemicals: One pot-base free oxidative esterification of 5-hydroxymethyl-2-furfural into 2,5-dimethylfuroate with gold on nanoparticulated ceria. <i>Journal of Catalysis</i> , 2009 , 265, 109-116	7.3	206
1190	Supramolecular Host-Guest Systems in Zeolites Prepared by Ship-in-a-Bottle Synthesis. <i>European Journal of Inorganic Chemistry</i> , 2004 , 2004, 1143-1164	2.3	203
1189	Hydrogenation of Aromatics in Diesel Fuels on Pt/MCM-41 Catalysts. <i>Journal of Catalysis</i> , 1997 , 169, 480-489	7.3	202
1188	Complete photocatalytic reduction of CO ₂ to methane by H ₂ under solar light irradiation. <i>Journal of the American Chemical Society</i> , 2014 , 136, 6798-801	16.4	201
1187	New insights on CO ₂ -methane separation using LTA zeolites with different Si/Al ratios and a first comparison with MOFs. <i>Langmuir</i> , 2010 , 26, 1910-7	4	201
1186	Enhancement of the photocatalytic activity of TiO ₂ through spatial structuring and particle size control: from subnanometric to submillimetric length scale. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 769-83	3.6	201
1185	Bridging homogeneous and heterogeneous catalysis with MOFs: Click reactions with Cu-MOF catalysts. <i>Journal of Catalysis</i> , 2010 , 276, 134-140	7.3	199
1184	Isolable gold(I) complexes having one low-coordinating ligand as catalysts for the selective hydration of substituted alkynes at room temperature without acidic promoters. <i>Journal of Organic Chemistry</i> , 2009 , 74, 2067-74	4.2	197
1183	Ordered covalent organic frameworks, COFs and PAFs. From preparation to application. <i>Coordination Chemistry Reviews</i> , 2016 , 311, 85-124	23.2	195

1182	Control of zeolite framework flexibility and pore topology for separation of ethane and ethylene. <i>Science</i> , 2017 , 358, 1068-1071	33.3	195
1181	Activated hydrotalcites as catalysts for the synthesis of chalcones of pharmaceutical interest. <i>Journal of Catalysis</i> , 2004 , 221, 474-482	7.3	194
1180	Oxime carbapalladacycle covalently anchored to high surface area inorganic supports or polymers as heterogeneous green catalysts for the Suzuki reaction in water. <i>Journal of Organic Chemistry</i> , 2004 , 69, 439-46	4.2	194
1179	Preferential Location of Ge in the Double Four-Membered Ring Units of ITQ-7 Zeolite. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 2634-2642	3.4	194
1178	Transforming Nano Metal Nonselective Particulates into Chemoselective Catalysts for Hydrogenation of Substituted Nitrobenzenes. <i>ACS Catalysis</i> , 2015 , 5, 7114-7121	13.1	192
1177	Synthesis of MCM-41 with Different Pore Diameters without Addition of Auxiliary Organics. <i>Chemistry of Materials</i> , 1997 , 9, 2123-2126	9.6	191
1176	ITQ-15: the first ultralarge pore zeolite with a bi-directional pore system formed by intersecting 14- and 12-ring channels, and its catalytic implications. <i>Chemical Communications</i> , 2004 , 1356-7	5.8	191
1175	Conversion of levulinic acid into chemicals: Synthesis of biomass derived levulinate esters over Zr-containing MOFs. <i>Chemical Engineering Science</i> , 2015 , 124, 52-60	4.4	190
1174	Heterogeneous Gold-Catalysed Synthesis of Phenols. <i>Advanced Synthesis and Catalysis</i> , 2006 , 348, 1283-1288	12.8	187
1173	Synthesis in fluoride media and characterisation of aluminosilicate zeolite beta. <i>Journal of Materials Chemistry</i> , 1998 , 8, 2137-2145		186
1172	2,6-Di-Tert-Butyl-Pyridine as a Probe Molecule to Measure External Acidity of Zeolites. <i>Journal of Catalysis</i> , 1998 , 179, 451-458	7.3	185
1171	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
1170	Strategies to improve the epoxidation activity and selectivity of Ti-MCM-41. <i>Chemical Communications</i> , 1998 , 2211-2212	5.8	182
1169	The MOF-driven synthesis of supported palladium clusters with catalytic activity for carbene-mediated chemistry. <i>Nature Materials</i> , 2017 , 16, 760-766	27	180
1168	Lewis and Brønsted basic active sites on solid catalysts and their role in the synthesis of monoglycerides. <i>Journal of Catalysis</i> , 2005 , 234, 340-347	7.3	180
1167	Mechanism of the Meerwein-Ponndorf-Verley-Oppenauer (MPVO) redox equilibrium on Sn- and Zr-beta zeolite catalysts. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 21168-74	3.4	177
1166	Highly active and selective gold catalysts for the aerobic oxidative condensation of benzylamines to imines and one-pot, two-step synthesis of secondary benzylamines. <i>Journal of Catalysis</i> , 2009 , 264, 138-144	7.3	176
1165	Catalytic activity of palladium supported on single wall carbon nanotubes compared to palladium supported on activated carbon: Study of the Heck and Suzuki couplings, aerobic alcohol oxidation and selective hydrogenation. <i>Journal of Molecular Catalysis A</i> , 2005 , 230, 97-105		175

1164	New Aluminosilicate and Titanosilicate Delaminated Materials Active for Acid Catalysis, and Oxidation Reactions Using H ₂ O ₂ . <i>Journal of the American Chemical Society</i> , 2000 , 122, 2804-2809	16.4	175
1163	Influence of the Preparation Methods of V-Mg-O Catalysts on Their Catalytic Properties for the Oxidative Dehydrogenation of Propane. <i>Journal of Catalysis</i> , 1993 , 144, 425-438	7.3	174
1162	Efficient chemoselective alcohol oxidation using oxygen as oxidant. Superior performance of gold over palladium catalysts. <i>Tetrahedron</i> , 2006 , 62, 6666-6672	2.4	173
1161	Light cracked naphtha processing: Controlling chemistry for maximum propylene production. <i>Catalysis Today</i> , 2005 , 107-108, 699-706	5.3	172
1160	Similarities and differences between the "relativistic" triad gold, platinum, and mercury in catalysis. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 614-35	16.4	170
1159	Monodispersed mesoporous silica nanoparticles with very large pores for enhanced adsorption and release of DNA. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 1796-804	3.4	170
1158	Cu-SSZ-39, an active and hydrothermally stable catalyst for the selective catalytic reduction of NO _x . <i>Chemical Communications</i> , 2012 , 48, 8264-6	5.8	169
1157	Unique gold chemoselectivity for the aerobic oxidation of allylic alcohols. <i>Chemical Communications</i> , 2006 , 3178-80	5.8	169
1156	Preparation, characterisation and catalytic activity of ITQ-2, a delaminated zeolite. <i>Microporous and Mesoporous Materials</i> , 2000 , 38, 301-309	5.3	169
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