Karen Wilson

List of Publications by Citations

298 papers	14,854 citations	65 h-index	111 g-index
319 ext. papers	16,587 ext. citations	8.1 avg, IF	6.86 L-index

#	Paper	IF	Citations
298	Hierarchical porous materials: catalytic applications. *Chemical Society Reviews*, **2013**, 42, 3876-93	58.5	742
297	Heterogeneous catalysis for sustainable biodiesel production via esterification and transesterification. *Chemical Society Reviews*, **2014**, 43, 7887-916	58.5	514
296	Structure-reactivity correlations in MgAl hydrotalcite catalysts for biodiesel synthesis. *Applied Catalysis A: General*, **2005**, 287, 183-190	5.1	457
295	Ag Alloyed Pd Single-Atom Catalysts for Efficient Selective Hydrogenation of Acetylene to Ethylene in Excess Ethylene. *ACS Catalysis*, **2015**, 5, 3717-3725	13.1	400
294	A review of advanced catalyst development for Fischer□Tropsch synthesis of hydrocarbons from biomass derived syn-gas. *Catalysis Science and Technology*, **2014**, 4, 2210-2229	5.5	344
293	High-activity, single-site mesoporous Pd/Al2O3 catalysts for selective aerobic oxidation of allylic alcohols. *Angewandte Chemie - International Edition*, **2007**, 46, 8593-6	16.4	286
292	Investigation of Ni-based alumina-supported catalysts for the oxidative dehydrogenation of ethane to ethylene: structural characterization and reactivity studies. *Journal of Catalysis*, **2005**, 231, 159-171	7.3	270
291	Solid acids and their use as environmentally friendly catalysts in organic synthesis. *Pure and Applied Chemistry*, **2000**, 72, 1313-1319	2.1	233
290	Structure□ctivity relations in Cs-doped heteropolyacid catalysts for biodiesel production. *Journal of Catalysis*, **2007**, 248, 226-234	7.3	229
289	Highly selective hydrogenation of furfural over supported Pt nanoparticles under mild conditions. *Applied Catalysis B: Environmental*, **2016**, 180, 580-585	21.8	217
288	Classical strong metal-support interactions between gold nanoparticles and titanium dioxide. *Science Advances*, **2017**, 3, e1700231	14.3	213
287	Characterisation of electrospun polystyrene scaffolds for three-dimensional in vitro biological studies. *Biomaterials*, **2006**, 27, 3136-46	15.6	211
286	Evaluation of the activity and stability of alkali-doped metal oxide catalysts for application to an intensified method of biodiesel production. *Chemical Engineering Journal*, **2008**, 135, 63-70	14.7	203
285	Surface modification of natural fibers using bacteria: depositing bacterial cellulose onto natural fibers to create hierarchical fiber reinforced nanocomposites. *Biomacromolecules*, **2008**, 9, 1643-51	6.9	199
284	Evidence for the surface-catalyzed Suzuki-Miyaura reaction over palladium nanoparticles: an operando XAS study. *Angewandte Chemie - International Edition*, **2010**, 49, 1820-4	16.4	196
283	Li□aO catalysed tri-glyceride transesterification for biodiesel applications. *Green Chemistry*, **2004**, 6, 335-340	10	196
282	Heterogeneously Catalyzed Hydrothermal Processing of C-C Sugars. *Chemical Reviews*, **2016**, 116, 12328□12368	68.2	192

281	Atomically dispersed nickel as coke-resistant active sites for methane dry reforming. *Nature Communications*, **2019**, 10, 5181	17.4	184
280	Catalysts in Production of Biodiesel: A Review. *Journal of Biobased Materials and Bioenergy*, **2007**, 1, 19-30	1.4	174
279	Hierarchical macroporous–mesoporous SBA-15 sulfonic acid catalysts for biodiesel synthesis. *Green Chemistry*, **2010**, 12, 296-303	10	164
278	Structure and reactivity of sol–gel sulphonic acid silicas. *Applied Catalysis A: General*, **2002**, 228, 127-133	5.1	164
277	Tunable KIT-6 Mesoporous Sulfonic Acid Catalysts for Fatty Acid Esterification. *ACS Catalysis*, **2012**, 2, 1607-1614	13.1	160
276	P25@CoAl layered double hydroxide heterojunction nanocomposites for CO2 photocatalytic reduction. *Applied Catalysis B: Environmental*, **2017**, 209, 394-404	21.8	152
275	A magnetically separable SO4/Fe-Al-TiO2 solid acid catalyst for biodiesel production from waste cooking oil. *Applied Catalysis B: Environmental*, **2018**, 234, 268-278	21.8	150
274	Recent advances in the heterogeneously catalysed aerobic selective oxidation of alcohols. *Journal of Chemical Technology and Biotechnology*, **2011**, 86, 161-171	3.5	140
273	Support-Enhanced Selective Aerobic Alcohol Oxidation over Pd/Mesoporous Silicas. *ACS Catalysis*, **2011**, 1, 636-640	13.1	134
272	N-Heterocyclic carbene coated metal nanoparticles. *New Journal of Chemistry*, **2009**, 33, 1837	3.6	134
271	Bifunctional SO4/ZrO2 catalysts for 5-hydroxymethylfufural (5-HMF) production from glucose. *Catalysis Science and Technology*, **2014**, 4, 333-342	5.5	132
270	The influence of surface functionalization of activated carbon on palladium dispersion and catalytic activity in hydrogen oxidation. *Applied Catalysis A: General*, **2008**, 335, 241-251	5.1	128
269	Catalytic applications of waste derived materials. *Journal of Materials Chemistry A*, **2016**, 4, 3617-3637	13	127
268	A Fast XPS study of the surface chemistry of ethanol over Pt{1 1 1}. *Surface Science*, **2004**, 548, 200-208	1.8	122
267	Hydrothermally Stable, Conformal, Sulfated Zirconia Monolayer Catalysts for Glucose Conversion to 5-HMF. *ACS Catalysis*, **2015**, 5, 4345-4352	13.1	120
266	An efficient route to highly organized, tunable macroporous-mesoporous alumina. *Journal of the American Chemical Society*, **2009**, 131, 12896-7	16.4	119
265	Synthesis of gold nanoparticles within a supramolecular gel-phase network. *Chemical Communications*, **2005**, 1971-3	5.8	110
264	Recent developments in heterogeneous catalysis for the sustainable production of biodiesel. *Catalysis Today*, **2015**, 242, 3-18	5.3	108

263	Strong metal-support interaction promoted scalable production of thermally stable single-atom catalysts. *Nature Communications*, **2020**, 11, 1263	17.4	107
262	Rational design of heterogeneous catalysts for biodiesel synthesis. *Catalysis Science and Technology* , **2012**, 2, 884	5.5	106
261	Interdependent lateral interactions, hydrophobicity and acid strength and their influence on the catalytic activity of nanoporous sulfonic acid silicas. *Green Chemistry*, **2010**, 12, 1383	10	102
260	Synthesis of CuS and CuS/ZnS core/shell nanocrystals for photocatalytic degradation of dyes under visible light. *Catalysis Communications*, **2014**, 44, 62-67	3.2	100
259	Solid base catalysed 5-HMF oxidation to 2,5-FDCA over Au/hydrotalcites: fact or fiction?. *Chemical Science*, **2015**, 6, 4940-4945	9.4	98
258	High-Activity, Single-Site Mesoporous Pd/Al2O3 Catalysts for Selective Aerobic Oxidation of Allylic Alcohols. *Angewandte Chemie*, **2007**, 119, 8747-8750	3.6	98
257	Cs-doped H4SiW12O40 catalysts for biodiesel applications. *Applied Catalysis A: General*, **2009**, 360, 50-58	5.1	96
256	Surface catalysed Suzuki-Miyaura cross-coupling by Pd nanoparticles: an operando XAS study. *Dalton Transactions*, **2010**, 39, 10473-82	4.3	95
255	Zirconium phosphate supported tungsten oxide solid acid catalysts for the esterification of palmitic acid. *Green Chemistry*, **2006**, 8, 790	10	95
254	Structural studies of high dispersion H3PW12O40/SiO2 solid acid catalysts. *Physical Chemistry Chemical Physics*, **2006**, 8, 2893-902	3.6	95
253	The application of calcined natural dolomitic rock as a solid base catalyst in triglyceride transesterification for biodiesel synthesis. *Green Chemistry*, **2008**, 10, 654	10	92
252	Hydroxyapatite supported antibacterial Ag3PO4 nanoparticles. *Journal of Materials Chemistry*, **2010**, 20, 8056		91
251	Phenol methylation over nanoparticulate CoFe2O4 inverse spinel catalysts: The effect of morphology on catalytic performance. *Applied Catalysis A: General*, **2009**, 366, 184-192	5.1	90
250	Pore-expanded SBA-15 sulfonic acid silicas for biodiesel synthesis. *Chemical Communications*, **2012**, 48, 212-4	5.8	89
249	Label-free glucose biosensor based on enzymatic graphene oxide-functionalized tilted fiber grating. *Sensors and Actuators B: Chemical*, **2018**, 254, 1033-1039	8.5	87
248	Spatially orthogonal chemical functionalization of hierarchical pore network for catalytic cascade reactions. *Nature Materials*, **2016**, 15, 178-82	27	86
247	Reaction-driven surface restructuring and selectivity control in allylic alcohol catalytic aerobic oxidation over Pd. *Journal of the American Chemical Society*, **2011**, 133, 5724-7	16.4	86
246	The Origin of SO2 Promotion of Propane Oxidation over Pt/Al2O3 Catalysts. *Journal of Catalysis*, **1999**, 184, 491-498	7.3	86

245	Selectivity control in Pt-catalyzed cinnamaldehyde hydrogenation. *Scientific Reports*, **2015**, 5, 9425	4.9	85
244	Structure□reactivity correlations in sulphated-zirconia catalysts for the isomerisation of □pinene. *Journal of Catalysis*, **2003**, 215, 57-65	7.3	84
243	Anisotropic surface energetics and wettability of macroscopic form I paracetamol crystals. *Langmuir*, **2006**, 22, 2760-9	4	81
242	Conformal sulfated zirconia monolayer catalysts for the one-pot synthesis of ethyl levulinate from glucose. *Chemical Communications*, **2014**, 50, 11742-5	5.8	79
241	Structure-sensitive biodiesel synthesis over MgO nanocrystals. *Green Chemistry*, **2009**, 11, 265-268	10	78
240	Epitaxial growth and magnetic properties of half-metallic Fe3O4 on GaAs(100). *Physical Review B*, **2004**, 70,	3.3	77
239	On the active site in heterogeneous palladium selox catalysts. *Green Chemistry*, **2006**, 8, 549	10	75
238	Recent advances in the production of □valerolactone from biomass-derived feedstocks via heterogeneous catalytic transfer hydrogenation. *Journal of Chemical Technology and Biotechnology*, **2017**, 92, 1125-1135	3.5	74
237	Structure□reactivity correlations in the selective aerobic oxidation of cinnamyl alcohol: in situ XAFS. *Green Chemistry*, **2004**, 6, 37-42	10	73
236	Site-selective direct arylation of unprotected adenine nucleosides mediated by palladium and copper: insights into the reaction mechanism. *Tetrahedron*, **2008**, 64, 6125-6137	2.4	72
235	Catalytic upgrading of bio-oils by esterification. *Journal of Chemical Technology and Biotechnology*, **2015**, 90, 780-795	3.5	69
234	Glycerol Valorization: Dehydration to Acrolein Over Silica-Supported Niobia Catalysts. *Topics in Catalysis*, **2010**, 53, 1217-1223	2.3	65
233	On the active site in H3PW12O40/SiO2 catalysts for fine chemical synthesis. *Catalysis Letters*, **2005**, 102, 45-50	2.8	65
232	Better by design: nanoengineered macroporous hydrotalcites for enhanced catalytic biodiesel production. *Energy and Environmental Science*, **2012**, 5, 6145	35.4	64
231	Why is it possible to detect doped regions of semiconductors in low voltage SEM: a review and update. *Surface and Interface Analysis*, **2005**, 37, 901-911	1.5	64
230	Highly selective Pd/titanate nanotube catalysts for the double-bond migration reaction. *Journal of Catalysis*, **2007**, 245, 272-278	7.3	63
229	Support enhanced □pinene isomerization over HPW/SBA-15. *Applied Catalysis B: Environmental*, **2017**, 200, 10-18	21.8	61
228	Comparative study of phenol alkylation mechanisms using homogeneous and silica-supported boron trifluoride catalysts. *Journal of Molecular Catalysis A*, **2000**, 159, 309-314		61

227	A core-shell SO4/Mg-Al-Fe3O4 catalyst for biodiesel production. *Applied Catalysis B: Environmental*, **2019**, 259, 118093	21.8	59
226	Physicochemical properties of WO x /ZrO 2 catalysts for palmitic acid esterification. *Applied Catalysis B: Environmental*, **2015**, 162, 75-84	21.8	58
225	Platinum-Catalyzed Aqueous-Phase Hydrogenation of d-Glucose to d-Sorbitol. *ACS Catalysis*, **2016**, 6, 7409-7417	13.1	58
224	Anisotropic surface chemistry of aspirin crystals. *Journal of Pharmaceutical Sciences*, **2007**, 96, 2134-44	3.9	55
223	Covalent attachment of chiral manganese(III) salen complexes onto functionalised hexagonal mesoporous silica and application to the asymmetric epoxidation of alkenes. *Microporous and Mesoporous Materials*, **2006**, 91, 128-138	5.3	54
222	Hierarchically Ordered Nanoporous Pd/SBA-15 Catalyst for the Aerobic Selective Oxidation of Sterically Challenging Allylic Alcohols. *ACS Catalysis*, **2013**, 3, 2122-2129	13.1	53
221	Single atom Cu(I) promoted mesoporous titanias for photocatalytic Methyl Orange depollution and H2 production. *Applied Catalysis B: Environmental*, **2018**, 232, 501-511	21.8	52
220	Mesoporous Silicas as Versatile Supports to Tune the Palladium-Catalyzed Selective Aerobic Oxidation of Allylic Alcohols. *ChemCatChem*, **2013**, 5, 939-950	5.2	51
219	Catalytic hydrodeoxygenation of m-cresol over Ni 2 P/hierarchical ZSM-5. *Catalysis Today*, **2018**, 304, 72-79	5.3	50
218	Amine-Functionalised Hexagonal Mesoporous Silica as Support for Copper(II) Acetylacetonate Catalyst. *European Journal of Inorganic Chemistry*, **2006**, 2006, 1275-1283	2.3	50
217	Catalytic Hydrogenation and Hydrodeoxygenation of Furfural over Pt(111): A Model System for the Rational Design and Operation of Practical Biomass Conversion Catalysts. *Journal of Physical Chemistry C*, **2017**, 121, 8490-8497	3.8	49
216	Alumina-grafted SBA-15 as a high performance support for Pd-catalysed cinnamyl alcohol selective oxidation. *Catalysis Today*, **2014**, 229, 46-55	5.3	49
215	SO2-Promoted Chemisorption and Oxidation of Propane over Pt (111). *The Journal of Physical Chemistry*, **1995**, 99, 13755-13758		49
214	Mesoporous NiO/Al-SBA-15 catalysts for solvent-free deoxygenation of palm fatty acid distillate. *Microporous and Mesoporous Materials*, **2019**, 276, 13-22	5.3	47
213	Optimising catalytic properties of supported sulfonic acid catalysts. *Applied Catalysis A: General*, **2009**, 364, 95-100	5.1	46
212	Hydroxyl radical generation by cactus-like copper oxide nanoporous carbon catalysts for microcystin-LR environmental remediation. *Catalysis Science and Technology*, **2016**, 6, 530-544	5.5	45
211	Selective Oxidation of Crotyl Alcohol over Pd(111). *Journal of Physical Chemistry C*, **2007**, 111, 18844-18847	3.8	45
210	Hierarchical mesoporous Pd/ZSM-5 for the selective catalytic hydrodeoxygenation of m-cresol to methylcyclohexane. *Catalysis Science and Technology*, **2016**, 6, 2560-2564	5.5	44

209	In situ studies of structure–reactivity relations in biodiesel synthesis over nanocrystalline MgO. *Chemical Engineering Journal*, **2010**, 161, 332-339	14.7	44
208	Gold-catalyzed conversion of lignin to low molecular weight aromatics. *Chemical Science*, **2018**, 9, 8127-8133	9.4	44
207	Mesoporous sulfonic acid silicas for pyrolysis bio-oil upgrading via acetic acid esterification. *Green Chemistry*, **2016**, 18, 1387-1394	10	43
206	CO adsorption over Pd nanoparticles: A general framework for IR simulations on nanoparticles. *Surface Science*, **2016**, 646, 210-220	1.8	43
205	Kinetic Modeling Studies of Heterogeneously Catalyzed Biodiesel Synthesis Reactions. *Industrial & Engineering Chemistry Research*, **2011**, 50, 4818-4830	3.9	43
204	Evidence for the Surface-Catalyzed Suzuki–Miyaura Reaction over Palladium Nanoparticles: An Operando XAS Study. *Angewandte Chemie*, **2010**, 122, 1864-1868	3.6	42
203	Efficient one-pot production of γ-valerolactone from xylose over Zr-Al-Beta zeolite: rational optimization of catalyst synthesis and reaction conditions. *Green Chemistry*, **2017**, 19, 5114-5121	10	41
202	Influence of alkyl chain length on sulfated zirconia catalysed batch and continuous esterification of carboxylic acids by light alcohols. *Green Chemistry*, **2016**, 18, 5529-5535	10	41
201	Tailored mesoporous silica supports for Ni catalysed hydrogen production from ethanol steam reforming. *Catalysis Communications*, **2017**, 91, 76-79	3.2	40
200	In-situ XPS Study on the Reducibility of Pd-Promoted Cu/CeO2 Catalysts for the Oxygen-assisted Water-gas-shift Reaction. *Topics in Catalysis*, **2008**, 49, 89-96	2.3	40
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198	Coupling of Heck and hydrogenation reactions in a continuous compact reactor. *Journal of Catalysis* , **2009**, 267, 114-120	7.3	38
197	Synthesis of a novel supported solid acid BF3 catalyst. *Chemical Communications*, **1998**, 2135-2136	5.8	38
196	High-Pressure XPS of Crotyl Alcohol Selective Oxidation over Metallic and Oxidized Pd(111). *ACS Catalysis*, **2012**, 2, 2235-2241	13.1	37
195	In situ studies of titania-supported Au shell–Pd core nanoparticles for the selective aerobic oxidation of crotyl alcohol. *Catalysis Today*, **2010**, 157, 243-249	5.3	37
194	On the influence of Si:Al ratio and hierarchical porosity of FAU zeolites in solid acid catalysed esterification pretreatment of bio-oil. *Biomass Conversion and Biorefinery*, **2017**, 7, 331-342	2.3	36
193	Heterogeneous catalysis in an oscillatory baffled flow reactor. *Catalysis Science and Technology*, **2013**, 3, 2373	5.5	36
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191	Silver carbonate nanoparticles stabilised over alumina nanoneedles exhibiting potent antibacterial properties. *Chemical Communications*, **2008**, 4013-5	5.8	36
190	Atmospheric plasma treatment of porous polymer constructs for tissue engineering applications. *Macromolecular Bioscience*, **2007**, 7, 315-27	5.5	36
189	Hydrogen evolution enhancement of ultra-low loading, size-selected molybdenum sulfide nanoclusters by sulfur enrichment. *Applied Catalysis B: Environmental*, **2018**, 235, 84-91	21.8	35
188	Acetic Acid Ketonization over FeO/SiO for Pyrolysis Bio-Oil Upgrading. *ChemCatChem*, **2017**, 9, 1648-1654	5.2	35
187	Nb2O5/SBA-15 catalyzed propanoic acid esterification. *Applied Catalysis B: Environmental*, **2017**, 205, 498-504	21.8	34
186	The surface chemistry of nanocrystalline MgO catalysts for FAME production: An in situ XPS study of H2O, CH3OH and CH3OAc adsorption. *Surface Science*, **2016**, 646, 170-178	1.8	34
185	Zr-Containing Hybrid Organic□Inorganic Mesoporous Materials: Hydrophobic Acid Catalysts for Biodiesel Production.. *ChemCatChem*, **2013**, 5, 994-1001	5.2	34
184	Unravelling mass transport in hierarchically porous catalysts. *Journal of Materials Chemistry A*, **2019**, 7, 11814-11825	13	33
183	Size-Dependent Visible Light Photocatalytic Performance of Cu2O Nanocubes. *ChemCatChem*, **2018**, 10, 3554-3563	5.2	33
182	Carbon nanotube-supported metal catalysts for NOx reduction using hydrocarbon reductants. Part 1: Catalyst preparation, characterization and NOx reduction characteristics. *Applied Catalysis B: Environmental*, **2011**, 102, 1-8	21.8	33
181	A spatially orthogonal hierarchically porous acid□base catalyst for cascade and antagonistic reactions. *Nature Catalysis*, **2020**, 3, 921-931	36.5	31
180	Recent advances in CO2 hydrogenation to value-added products □ Current challenges and future directions. *Progress in Energy and Combustion Science*, **2021**, 85, 100905	33.6	31
179	Optimization of ruthenium based catalysts for the aqueous phase hydrogenation of furfural to furfuryl alcohol. *Applied Catalysis A: General*, **2018**, 563, 177-184	5.1	30
178	Selective oxidation of allylic alcohols over highly ordered Pd/meso-Al2O3 catalysts. *Catalysis Communications*, **2014**, 44, 40-45	3.2	30
177	Oxidative dehydrogenation of ethane: catalytic and mechanistic aspects and future trends. *Chemical Society Reviews*, **2021**, 50, 4564-4605	58.5	30
176	Efficient deoxygenation of waste cooking oil over CoO-LaO-doped activated carbon for the production of diesel-like fuel.. *RSC Advances*, **2020**, 10, 4996-5009	3.7	29
175	Catalyst design for biorefining. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2016**, 374,	3	29
174	Acidity-Reactivity Relationships in Catalytic Esterification over Ammonium Sulfate-Derived Sulfated Zirconia. *Catalysts*, **2017**, 7, 204	4	29

173	An XPS study of pulsed plasma polymerised allyl alcohol film growth on polyurethane. *Applied Surface Science*, **2006**, 252, 8203-8211	6.7	29
172	Delaminated CoAl-Layered Double Hydroxide@TiO2 Heterojunction Nanocomposites for Photocatalytic Reduction of CO2. *Particle and Particle Systems Characterization*, **2018**, 35, 1700317	3.1	29
171	High activity magnetic core-mesoporous shell sulfonic acid silica nanoparticles for carboxylic acid esterification. *Catalysis Communications*, **2017**, 92, 56-60	3.2	28
170	Template free mild hydrothermal synthesis of core□shell Cu2O(Cu)@CuO visible light photocatalysts for N-acetyl-para-aminophenol degradation. *Journal of Materials Chemistry A*, **2019**, 7, 20767-20777	13	27
169	Alkali- and nitrate-free synthesis of highly active MgAl hydrotalcite-coated alumina for FAME production. *Catalysis Science and Technology*, **2014**, 4, 861-870	5.5	27
168	Operando synchronous DRIFTS/MS/XAS as a powerful tool for guiding the design of Pd catalysts for the selective oxidation of alcohols. *Catalysis Today*, **2013**, 205, 76-85	5.3	27
167	Surfactant- and template-free hydrothermal assembly of Cu2O visible light photocatalysts for trimethoprim degradation. *Applied Catalysis B: Environmental*, **2021**, 284, 119741	21.8	27
166	Can surface energy measurements predict the impact of catalyst hydrophobicity upon fatty acid esterification over sulfonic acid functionalised periodic mesoporous organosilicas?. *Catalysis Today*, **2014**, 234, 167-173	5.3	26
165	Efficient alkyne homocoupling catalysed by copper immobilized on functionalized silica. *Applied Organometallic Chemistry*, **2013**, 27, 23-27	3.1	26
164	Cs Promoted Triglyceride Transesterification Over MgO Nanocatalysts. *Topics in Catalysis*, **2010**, 53, 737-745	2.5	26
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161	Structure-Reactivity Relations in Ruthenium Catalysed Furfural Hydrogenation. *ChemCatChem*, **2019**, 11, 3927-3932	5.2	25
160	Zirconia catalysed acetic acid ketonisation for pre-treatment of biomass fast pyrolysis vapours. *Catalysis Science and Technology*, **2018**, 8, 1134-1141	5.5	25
159	Facile route to conformal hydrotalcite coatings over complex architectures: a hierarchically ordered nanoporous base catalyst for FAME production. *Green Chemistry*, **2015**, 17, 2398-2405	10	25
158	In situ synthesis and catalytic activity in CO oxidation of metal nanoparticles supported on porous nanocrystalline silicon. *Journal of Catalysis*, **2010**, 271, 59-66	7.3	25
157	Porous crystalline frameworks for thermocatalytic CO2 reduction: an emerging paradigm. *Energy and Environmental Science*, **2021**, 14, 320-352	35.4	25
156	Octyl Co-grafted PrSO3H/SBA-15: Tunable Hydrophobic Solid Acid Catalysts for Acetic Acid Esterification. *ChemCatChem*, **2017**, 9, 2231-2238	5.2	24

155	Printing approaches to inorganic semiconductor photocatalyst fabrication. *Journal of Materials Chemistry A*, **2019**, 7, 10858-10878	13	24
154	Bifunctional Organorhodium Solid Acid Catalysts for Methanol Carbonylation. *ACS Catalysis*, **2012**, 2, 1368-1376	13.1	24
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152	Chemical reactions of double bonds in activated carbon: microwave and bromination methods. *Chemical Communications*, **2004**, 2736-7	5.8	24
151	Use of a Supported Aluminium Chloride Catalyst for the Production of Hydrocarbon Resins1. *Organic Process Research and Development*, **2001**, 5, 249-253	3.9	24
150	Niobic acid nanoparticle catalysts for the aqueous phase transformation of glucose and fructose to 5-hydroxymethylfurfural. *Catalysis Science and Technology*, **2016**, 6, 7334-7341	5.5	24
149	MoS2 and WS2 nanocone arrays: Impact of surface topography on the hydrogen evolution electrocatalytic activity and mass transport. *Applied Materials Today*, **2018**, 11, 70-81	6.6	23
148	An energy-efficient route to the rapid synthesis of organically-modified SBA-15 via ultrasonic template removal. *Green Chemistry*, **2014**, 16, 197-202	10	23
147	Tunable Pt nanocatalysts for the aerobic selox of cinnamyl alcohol. *Nanoscale*, **2013**, 5, 5412-9	7.7	23
146	In situ Aberration Corrected-Transmission Electron Microscopy of Magnesium Oxide Nanocatalysts for Biodiesels. *Catalysis Letters*, **2009**, 132, 182-188	2.8	23
145	Electrocoating of carbon fibres: A route for interface control in carbon fibre reinforced poly methylmethacrylate?. *Composites Science and Technology*, **2005**, 65, 1564-1573	8.6	23
144	Acceptorless Amine Dehydrogenation and Transamination Using Pd-Doped Hydrotalcites. *ACS Catalysis*, **2019**, 9, 1055-1065	13.1	23
143	Inducing synergy in bimetallic RhNi catalysts for CO2 methanation by galvanic replacement. *Applied Catalysis B: Environmental*, **2020**, 277, 119029	21.8	22
142	Synthesis and Characterization of Silica-Supported l-Lysine-Based Dendritic Branches. *Langmuir*, **2002**, 18, 8660-8665	4	22
141	Impact of Macroporosity on Catalytic Upgrading of Fast Pyrolysis Bio-Oil by Esterification over Silica Sulfonic Acids. *ChemSusChem*, **2017**, 10, 3506-3511	8.3	21
140	Redox-Controlled Crotyl Alcohol Selective Oxidation: In Situ Oxidation and Reduction Dynamics of Catalytic Pd Nanoparticles via Synchronous XANES/MS. *ACS Catalysis*, **2012**, 2, 2242-2246	13.1	21
139	The influence of precursor source and thermal parameters upon the formation of beta-phase molybdenum nitride. *Journal of Alloys and Compounds*, **2009**, 479, 851-854	5.7	21
138	Physical and biological properties of a novel siloxane adhesive for soft tissue applications. *Journal of Biomaterials Science, Polymer Edition*, **2005**, 16, 449-72	3.5	21

137	Sol-gel synthesis of SBA-15: Impact of HCl on surface chemistry. *Microporous and Mesoporous Materials*, **2018**, 271, 196-202	5.3	21
136	Efficient 1,4-Addition of Enones and Boronic Acids Catalyzed by a Ni/Zn Hydroxyl Double Salt-Intercalated Anionic Rhodium(III) Complex. *ACS Catalysis*, **2014**, 4, 4040-4046	13.1	20
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130	Rearrangement of α-pinene oxide using a surface catalysed spinning disc reactor (SDR). *Green Chemistry*, **2004**, 6, 533-537	10	19
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