

Juan A. Melero

List of Publications by Year in descending order

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160
papers

10,304
citations

30070

54
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36028

97
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165
all docs

165
docs citations

165
times ranked

9911
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Syntheses of Ordered SBA-15 Mesoporous Silica Containing Sulfonic Acid Groups. <i>Chemistry of Materials</i> , 2000, 12, 2448-2459.	6.7	912
2	Heterogeneous acid catalysts for biodiesel production: current status and future challenges. <i>Green Chemistry</i> , 2009, 11, 1285.	9.0	463
3	Advances in the Synthesis and Catalytic Applications of Organosulfonic-Functionalized Mesostructured Materials. <i>Chemical Reviews</i> , 2006, 106, 3790-3812.	47.7	443
4	Biomass as renewable feedstock in standard refinery units. Feasibility, opportunities and challenges. <i>Energy and Environmental Science</i> , 2012, 5, 7393.	30.8	393
5	Direct syntheses of ordered SBA-15 mesoporous materials containing arenesulfonic acid groups. <i>Journal of Materials Chemistry</i> , 2002, 12, 1664-1670.	6.7	311
6	Anomalous crystallization mechanism in the synthesis of nanocrystalline ZSM-5. <i>Microporous and Mesoporous Materials</i> , 2000, 39, 135-147.	4.4	263
7	Acidic Mesoporous Silica for the Acetylation of Glycerol: Synthesis of Bioadditives to Petrol Fuel. <i>Energy & Fuels</i> , 2007, 21, 1782-1791.	5.1	246
8	Efficient Isomerization of Glucose to Fructose over Zeolites in Consecutive Reactions in Alcohol and Aqueous Media. <i>Journal of the American Chemical Society</i> , 2013, 135, 5246-5249.	13.7	195
9	Acid-catalyzed etherification of bio-glycerol and isobutylene over sulfonic mesostructured silicas. <i>Applied Catalysis A: General</i> , 2008, 346, 44-51.	4.3	178
10	Biodiesel production from crude palm oil using sulfonic acid-modified mesostructured catalysts. <i>Chemical Engineering Journal</i> , 2010, 161, 323-331.	12.7	175
11	Acetalisation of bio-glycerol with acetone to produce solketal over sulfonic mesostructured silicas. <i>Green Chemistry</i> , 2010, 12, 899.	9.0	165
12	Bifunctional SO_4/ZrO_2 catalysts for 5-hydroxymethylfurfural (5-HMF) production from glucose. <i>Catalysis Science and Technology</i> , 2014, 4, 333-342.	4.1	153
13	Heterogeneous photo-Fenton degradation of phenolic aqueous solutions over iron-containing SBA-15 catalyst. <i>Applied Catalysis B: Environmental</i> , 2005, 60, 181-190.	20.2	151
14	Supercritical Fluid Extraction of a Nonionic Surfactant Template from SBA-15 Materials and Consequences on the Porous Structure. <i>Langmuir</i> , 2003, 19, 3966-3973.	3.5	146
15	Progress in the design of zeolite catalysts for biomass conversion into biofuels and bio-based chemicals. <i>Catalysis Reviews - Science and Engineering</i> , 2018, 60, 1-70.	12.9	145
16	Oxygenated compounds derived from glycerol for biodiesel formulation: Influence on EN 14214 quality parameters. <i>Fuel</i> , 2010, 89, 2011-2018.	6.4	144
17	Hydrothermally Stable, Conformal, Sulfated Zirconia Monolayer Catalysts for Glucose Conversion to 5-HMF. <i>ACS Catalysis</i> , 2015, 5, 4345-4352.	11.2	137
18	Heterogeneous catalytic wet peroxide oxidation systems for the treatment of an industrial pharmaceutical wastewater. <i>Water Research</i> , 2009, 43, 4010-4018.	11.3	135

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19	Effective pharmaceutical wastewater degradation by Fenton oxidation with zero-valent iron. <i>Applied Catalysis B: Environmental</i> , 2013, 136-137, 64-69.	20.2	133
20	Production of Biofuels via the Catalytic Cracking of Mixtures of Crude Vegetable Oils and Nonedible Animal Fats with Vacuum Gas Oil. <i>Energy & Fuels</i> , 2010, 24, 707-717.	5.1	132
21	Efficient conversion of levulinic acid into alkyl levulinates catalyzed by sulfonic mesostructured silicas. <i>Applied Catalysis A: General</i> , 2013, 466, 116-122.	4.3	132
22	Nanocomposite Fe ₂ O ₃ /SBA-15: An efficient and stable catalyst for the catalytic wet peroxidation of phenolic aqueous solutions. <i>Chemical Engineering Journal</i> , 2007, 131, 245-256.	12.7	126
23	Degradation of phenolic aqueous solutions by high frequency sono-Fenton systems (US ² /Fe ₂ O ₃ /SBA-15/H ₂ O ₂). <i>Applied Catalysis B: Environmental</i> , 2009, 90, 380-388.	20.2	121
24	Etherification of biodiesel-derived glycerol with ethanol for fuel formulation over sulfonic modified catalysts. <i>Bioresource Technology</i> , 2012, 103, 142-151.	9.6	119
25	Iron species incorporated over different silica supports for the heterogeneous photo-Fenton oxidation of phenol. <i>Applied Catalysis B: Environmental</i> , 2007, 70, 452-460.	20.2	114
26	Zero valent iron (ZVI) mediated Fenton degradation of industrial wastewater: Treatment performance and characterization of final composites. <i>Chemical Engineering Journal</i> , 2015, 269, 298-305.	12.7	113
27	Integrated heterogeneous sono-photo Fenton processes for the degradation of phenolic aqueous solutions. <i>Ultrasonics Sonochemistry</i> , 2009, 16, 417-424.	8.2	110
28	Aqueous-sensitive reaction sites in sulfonic acid-functionalized mesoporous silicas. <i>Journal of Catalysis</i> , 2008, 254, 205-217.	6.2	109
29	Heterogeneous photo-Fenton oxidation of benzoic acid in water: Effect of operating conditions, reaction by-products and coupling with biological treatment. <i>Applied Catalysis B: Environmental</i> , 2008, 85, 24-32.	20.2	108
30	Coupling membrane separation and photocatalytic oxidation processes for the degradation of pharmaceutical pollutants. <i>Water Research</i> , 2013, 47, 5647-5658.	11.3	103
31	Mineralization of phenol by a heterogeneous ultrasound/Fe-SBA-15/H ₂ O ₂ process: Multivariate study by factorial design of experiments. <i>Applied Catalysis B: Environmental</i> , 2006, 66, 198-207.	20.2	102
32	Biodiesel Production with Heterogeneous Sulfonic Acid-Functionalized Mesostructured Catalysts. <i>Energy & Fuels</i> , 2009, 23, 539-547.	5.1	102
33	Enhancement of the advanced Fenton process (Fe ⁰ /H ₂ O ₂) by ultrasound for the mineralization of phenol. <i>Applied Catalysis B: Environmental</i> , 2012, 113-114, 100-106.	20.2	99
34	Conformal sulfated zirconia monolayer catalysts for the one-pot synthesis of ethyl levulinate from glucose. <i>Chemical Communications</i> , 2014, 50, 11742-11745.	4.1	88
35	Treatment of Phenolic Effluents by Catalytic Wet Hydrogen Peroxide Oxidation over Fe ₂ O ₃ /SBA-15 Extruded Catalyst in a Fixed-Bed Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 4396-4405.	3.7	86
36	Comparative life cycle assessment (LCA) study of heterogeneous and homogenous Fenton processes for the treatment of pharmaceutical wastewater. <i>Journal of Cleaner Production</i> , 2016, 124, 21-29.	9.3	85

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37	Efficient production of 5-ethoxymethylfurfural from fructose by sulfonic mesostructured silica using DMSO as co-solvent. <i>Catalysis Today</i> , 2017, 279, 305-316.	4.4	84
38	Activity and resistance of iron-containing amorphous, zeolitic and mesostructured materials for wet peroxide oxidation of phenol. <i>Water Research</i> , 2005, 39, 1741-1750.	11.3	82
39	Assessment of Fe ₂ O ₃ /SiO ₂ catalysts for the continuous treatment of phenol aqueous solutions in a fixed bed reactor. <i>Catalysis Today</i> , 2010, 149, 334-340.	4.4	81
40	Zr-SBA-15 acid catalyst: Optimization of the synthesis and reaction conditions for biodiesel production from low-grade oils and fats. <i>Catalysis Today</i> , 2012, 195, 44-53.	4.4	79
41	Catalytic wet peroxide oxidation of phenolic solutions over a LaTi _{1-x} Cu _x O ₃ perovskite catalyst. <i>Applied Catalysis B: Environmental</i> , 2004, 47, 281-294.	20.2	76
42	One-pot cascade transformation of xylose into γ -valerolactone (GVL) over bifunctional Brønsted-Lewis Zr-Al-beta zeolite. <i>Green Chemistry</i> , 2016, 18, 5777-5781.	9.0	76
43	Toxicity assessment of pharmaceutical compounds on mixed culture from activated sludge using respirometric technique: The role of microbial community structure. <i>Science of the Total Environment</i> , 2018, 630, 809-819.	8.0	70
44	ZrO ₂ -SBA-15 catalysts for the one-pot cascade synthesis of GVL from furfural. <i>Catalysis Science and Technology</i> , 2018, 8, 4485-4493.	4.1	69
45	Zr-SBA-15 as an efficient acid catalyst for FAME production from crude palm oil. <i>Catalysis Today</i> , 2011, 167, 46-55.	4.4	68
46	Wet Peroxide Oxidation of Phenolic Solutions over Different Iron-Containing Zeolitic Materials. <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 3921-3928.	3.7	64
47	Heterogeneous photo-Fenton treatment for the reduction of pharmaceutical contamination in Madrid rivers and ecotoxicological evaluation by a miniaturized fern spores bioassay. <i>Chemosphere</i> , 2010, 80, 381-388.	8.2	64
48	Zr-SBA-15 Lewis Acid Catalyst: Activity in Meerwein Ponndorf Verley Reduction. <i>Catalysts</i> , 2015, 5, 1911-1927.	3.5	63
49	Synthesis and catalytic activity of organic-inorganic hybrid Ti-SBA-15 materials. <i>Journal of Materials Chemistry</i> , 2007, 17, 377-385.	6.7	62
50	Friedel Crafts acylation of aromatic compounds over arenesulfonic containing mesostructured SBA-15 materials. <i>Catalysis Communications</i> , 2004, 5, 131-136.	3.3	61
51	Nanocomposite of crystalline Fe ₂ O ₃ and CuO particles and mesostructured SBA-15 silica as an active catalyst for wet peroxide oxidation processes. <i>Catalysis Communications</i> , 2006, 7, 478-483.	3.3	59
52	Biological removal of pharmaceutical and personal care products by a mixed microbial culture: Sorption, desorption and biodegradation. <i>Biochemical Engineering Journal</i> , 2013, 81, 108-119.	3.6	58
53	Municipal sewage sludge to biodiesel by simultaneous extraction and conversion of lipids. <i>Energy Conversion and Management</i> , 2015, 103, 111-118.	9.2	58
54	Biological removal of pharmaceutical compounds using white-rot fungi with concomitant FAME production of the residual biomass. <i>Journal of Environmental Management</i> , 2016, 180, 228-237.	7.8	58

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55	Efficient one-pot production of γ -valerolactone from xylose over Zr-Al-Beta zeolite: rational optimization of catalyst synthesis and reaction conditions. <i>Green Chemistry</i> , 2017, 19, 5114-5121.	9.0	57
56	Sulfonic Acid-Functionalized Catalysts for the Valorization of Glycerol via Transesterification with Methyl Acetate. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 5898-5906.	3.7	56
57	Exploring the effects of ZVI addition on resource recovery in the anaerobic digestion process. <i>Chemical Engineering Journal</i> , 2018, 335, 703-711.	12.7	56
58	Direct synthesis of titanium-substituted mesostructured materials using non-ionic surfactants and titanocene dichloride. <i>Microporous and Mesoporous Materials</i> , 2005, 86, 364-373.	4.4	54
59	Production of biodiesel from waste cooking oil in a continuous packed bed reactor with an agglomerated Zr-SBA-15/bentonite catalyst. <i>Applied Catalysis B: Environmental</i> , 2014, 145, 197-204.	20.2	53
60	Etherification of benzyl alcohols with 1-hexanol over organosulfonic acid mesostructured materials. <i>Journal of Molecular Catalysis A</i> , 2006, 256, 29-36.	4.8	50
61	Techno-economical assessment of coupling Fenton/biological processes for the treatment of a pharmaceutical wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 485-494.	6.7	49
62	Preparation of titanium molecular species supported on mesostructured silica by different grafting methods. <i>Journal of Molecular Catalysis A</i> , 2002, 182-183, 215-225.	4.8	48
63	Rational Optimization of Reaction Conditions for the One-Pot Transformation of Furfural to γ -Valerolactone over Zr-Al-Beta Zeolite: Toward the Efficient Utilization of Biomass. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 11592-11599.	3.7	47
64	Crystallization mechanism of Fe-MFI from wetness impregnated Fe ₂ O ₃ ·SiO ₂ amorphous xerogels: Role of iron species in Fenton-like processes. <i>Microporous and Mesoporous Materials</i> , 2004, 74, 11-21.	4.4	45
65	Catalytic upgrading of furfuryl alcohol to bio-products: Catalysts screening and kinetic analysis. <i>Applied Catalysis A: General</i> , 2017, 537, 74-82.	4.3	45
66	Dehydration of Xylose to Furfural in Alcohol Media in the Presence of Solid Acid Catalysts. <i>ChemCatChem</i> , 2016, 8, 2089-2099.	3.7	44
67	Low-grade oils and fats: Effect of several impurities on biodiesel production over sulfonic acid heterogeneous catalysts. <i>Bioresource Technology</i> , 2011, 102, 9571-9578.	9.6	43
68	Synthesis, characterization and catalytic activity of highly dispersed Mo-SBA-15. <i>Applied Catalysis A: General</i> , 2007, 331, 84-94.	4.3	42
69	Fries rearrangement of phenyl acetate over sulfonic modified mesostructured SBA-15 materials. <i>Applied Catalysis A: General</i> , 2005, 289, 143-152.	4.3	41
70	Zr-Containing Hybrid Organic-Inorganic Mesoporous Materials: Hydrophobic Acid Catalysts for Biodiesel Production.. <i>ChemCatChem</i> , 2013, 5, 994-1001.	3.7	40
71	Dehydration of sorbitol to isosorbide in melted phase with propyl-sulfonic functionalized SBA-15: Influence of catalyst hydrophobization. <i>Applied Catalysis A: General</i> , 2017, 531, 151-160.	4.3	40
72	Experimental and modeling study on removal of pharmaceutically active compounds in rotating biological contactors. <i>Journal of Hazardous Materials</i> , 2014, 274, 473-482.	12.4	37

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73	Understanding the role of mediators in the efficiency of advanced oxidation processes using white-rot fungi. <i>Chemical Engineering Journal</i> , 2019, 359, 1427-1435.	12.7	37
74	Synthesis of Sn ⁴⁺ -silicalite from hydrothermal conversion of SiO ₂ -SnO ₂ xerogels. <i>Microporous and Mesoporous Materials</i> , 2009, 119, 176-185.	4.4	36
75	Treatment of an agrochemical wastewater by integration of heterogeneous catalytic wet hydrogen peroxide oxidation and rotating biological contactors. <i>Chemical Engineering Journal</i> , 2013, 226, 409-415.	12.7	36
76	Xylose Isomerization with Zeolites in a Two-Step Alcohol-Water Process. <i>ChemSusChem</i> , 2015, 8, 1088-1094.	6.8	36
77	Biological and Bioelectrochemical Systems for Hydrogen Production and Carbon Fixation Using Purple Phototrophic Bacteria. <i>Frontiers in Energy Research</i> , 2018, 6, .	2.3	36
78	Photocatalytic promoted oxidation of phenolic mixtures: An insight into the operating and mechanistic aspects. <i>Water Research</i> , 2007, 41, 4672-4684.	11.3	35
79	Sulfonic acid heterogeneous catalysts for dehydration of C6-monosaccharides to 5-hydroxymethylfurfural in dimethyl sulfoxide. <i>Chinese Journal of Catalysis</i> , 2014, 35, 644-655.	14.0	34
80	From levulinic acid biorefineries to γ -valerolactone (GVL) using a bi-functional Zr-Al-Beta catalyst. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 1834-1843.	3.7	32
81	Low-cost Fe/SiO ₂ catalysts for continuous Fenton processes. <i>Catalysis Today</i> , 2017, 280, 176-183.	4.4	31
82	Up-scale challenges on biopolymer production from waste streams by Purple Phototrophic Bacteria mixed cultures: A critical review. <i>Bioresource Technology</i> , 2021, 327, 124820.	9.6	31
83	Immobilization of active and stable goethite coated-films by a dip-coating process and its application for photo-Fenton systems. <i>Chemical Engineering Journal</i> , 2012, 203, 212-222.	12.7	29
84	Zr-USY zeolite: Efficient catalyst for the transformation of xylose into bio-products. <i>Catalysis Today</i> , 2018, 304, 80-88.	4.4	29
85	Production of Sorbitol via Catalytic Transfer Hydrogenation of Glucose. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1843.	2.5	29
86	Comprehensive characterization of an oily sludge from a petrol refinery: A step forward for its valorization within the circular economy strategy. <i>Journal of Environmental Management</i> , 2021, 285, 112124.	7.8	28
87	On the Sn(II) and Sn(IV) incorporation into the AFI-structured AlPO ₄ -based framework: the first significantly acidic SnAPO-5. <i>Journal of Materials Chemistry</i> , 2009, 19, 6833.	6.7	27
88	Highly Ti-loaded MCM-41: Effect of the metal precursor and loading on the titanium distribution and on the catalytic activity in different oxidation processes. <i>Microporous and Mesoporous Materials</i> , 2010, 132, 112-120.	4.4	27
89	Nanocrystalline ZSM-5: A catalyst with high activity and selectivity for epoxide rearrangement reactions. <i>Journal of Molecular Catalysis A</i> , 2010, 318, 68-74.	4.8	27
90	Biodiesel Production Over Arenesulfonic Acid-Modified Mesostructured Catalysts: Optimization of Reaction Parameters Using Response Surface Methodology. <i>Topics in Catalysis</i> , 2010, 53, 795-804.	2.8	26

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91	Continuous production of biodiesel from low grade feedstock in presence of Zr-SBA-15: Catalyst performance and resistance against deactivation. <i>Catalysis Today</i> , 2014, 234, 174-181.	4.4	25
92	Transformation of Glucose into Sorbitol on Raney Nickel Catalysts in the Absence of Molecular Hydrogen: Sugar Disproportionation vs Catalytic Hydrogen Transfer. <i>Topics in Catalysis</i> , 2019, 62, 570-578.	2.8	25
93	Glycerol valorization: conversion to lactic acid by heterogeneous catalysis and separation by ion exchange chromatography. <i>Biofuels, Bioproducts and Biorefining</i> , 2020, 14, 357-370.	3.7	25
94	Sn-Al-USY for the valorization of glucose to methyl lactate: switching from hydrolytic to retro-aldol activity by alkaline ion exchange. <i>Green Chemistry</i> , 2019, 21, 5876-5885.	9.0	24
95	Life-cycle sustainability of biomass-derived sorbitol: Proposing technological alternatives for improving the environmental profile of a bio-refinery platform molecule. <i>Journal of Cleaner Production</i> , 2020, 250, 119568.	9.3	24
96	Understanding the role of Al/Zr ratio in Zr-Al-Beta zeolite: Towards the one-pot production of GVL from glucose. <i>Catalysis Today</i> , 2021, 367, 228-238.	4.4	24
97	Stable Continuous Production of γ -Valerolactone from Biomass-Derived Levulinic Acid over Zr-Al-Beta Zeolite Catalyst. <i>Catalysts</i> , 2020, 10, 678.	3.5	23
98	Bifunctional properties of Al-TS-1 synthesized by wetness impregnation of amorphous Al ₂ O ₃ -TiO ₂ -SiO ₂ solids prepared by the sol-gel method. <i>Catalysis Letters</i> , 1996, 41, 69-78.	2.6	22
99	Novel approach for the treatment of the organic fraction of municipal solid waste: Coupling thermal hydrolysis with anaerobic digestion and photo-fermentation. <i>Science of the Total Environment</i> , 2020, 714, 136845.	8.0	22
100	Influence of preoxidizing treatments on the preparation of iron-containing activated carbons for catalytic wet peroxide oxidation of phenol. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 880-886.	3.2	21
101	Chemical surface modified activated carbon cloth for catalytic wet peroxide oxidation of phenol. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 1182-1188.	3.2	21
102	Acid-catalyzed production of biodiesel over arenesulfonic SBA-15: Insights into the role of water in the reaction network. <i>Renewable Energy</i> , 2015, 75, 425-432.	8.9	21
103	Contamination of N-poor wastewater with emerging pollutants does not affect the performance of purple phototrophic bacteria and the subsequent resource recovery potential. <i>Journal of Hazardous Materials</i> , 2020, 385, 121617.	12.4	21
104	Study on the Ti and Al coinorporation into the MFI zeolitic structure. <i>Journal of Materials Chemistry</i> , 1998, 8, 2269-2276.	6.7	20
105	Direct synthesis of organically modified Ti-SBA-15 materials. <i>Journal of Molecular Catalysis A</i> , 2008, 291, 75-84.	4.8	20
106	Storage stability and corrosion studies of renewable raw materials and petrol mixtures: A key issue for their co-processing in refinery units. <i>Fuel</i> , 2010, 89, 554-562.	6.4	20
107	Resource Recovery Potential From Lignocellulosic Feedstock Upon Lysis With Ionic Liquids. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 119.	4.1	20
108	Comparative Life Cycle Assessment of Glucose Production from Maize Starch and Woody Biomass Residues as a Feedstock. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2946.	2.5	19

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109	Defective UiO-66(Zr) as an efficient catalyst for the synthesis of bio jet-fuel precursors via aldol condensation of furfural and MIBK. <i>Journal of Catalysis</i> , 2021, 401, 27-39.	6.2	19
110	Liquid phase rearrangement of long straight-chain epoxides over amorphous, mesostructured and zeolitic catalysts. <i>Applied Catalysis A: General</i> , 2004, 269, 137-146.	4.3	18
111	Agglomeration of Ti-SBA-15 with clays for liquid phase olefin epoxidation in a continuous fixed bed reactor. <i>Chemical Engineering Journal</i> , 2008, 139, 631-641.	12.7	18
112	Exploring the inhibition boundaries of mixed cultures of purple phototrophic bacteria for wastewater treatment in anaerobic conditions. <i>Water Research</i> , 2020, 183, 116057.	11.3	18
113	Ru-ZrO ₂ -SBA-15 as efficient and robust catalyst for the aqueous phase hydrogenation of glucose to sorbitol. <i>Molecular Catalysis</i> , 2020, 484, 110802.	2.0	18
114	Advances in biodiesel production. , 2012, , .		18
115	New insights in the deactivation of sulfonic modified SBA-15 catalysts for biodiesel production from low-grade oleaginous feedstock. <i>Applied Catalysis A: General</i> , 2014, 488, 111-118.	4.3	17
116	Maximizing the Accessibility of Active Species in Weakly Acidic Zr-SBA-15 Materials. <i>ChemCatChem</i> , 2012, 4, 379-386.	3.7	16
117	Mechanism of CIT-6 and VPI-8 Crystallization from Zincosilicate Gels. <i>Chemistry - A European Journal</i> , 2002, 8, 5153-5160.	3.3	15
118	Synthesis and characterisation of (hydroxypropyl)-2-aminomethyl pyridine containing hybrid polymer-silica SBA-15 materials supporting Mo(vi) centres and their use as heterogeneous catalysts for oct-1-ene epoxidation. <i>Journal of Materials Chemistry</i> , 2011, 21, 6725.	6.7	15
119	Food waste valorization by purple phototrophic bacteria and anaerobic digestion after thermal hydrolysis. <i>Biomass and Bioenergy</i> , 2020, 142, 105803.	5.7	15
120	Unraveling PHA production from urban organic waste with purple phototrophic bacteria via organic overload. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 166, 112687.	16.4	15
121	Effect of the solvent in the liquid phase rearrangement of 1,2-epoxyoctane over Al-MCM-41 and Al-TS-1 catalysts. <i>Journal of Molecular Catalysis A</i> , 2004, 222, 167-174.	4.8	14
122	Effect of the Al-MCM-41 properties on the catalytic liquid phase rearrangement of 1,2-epoxyoctane. <i>Applied Catalysis A: General</i> , 2007, 319, 171-180.	4.3	14
123	Wastewater sludges pretreated by different oxidation systems at mild conditions to promote the biogas formation in anaerobic processes. <i>Environmental Science and Pollution Research</i> , 2016, 23, 24393-24401.	5.3	14
124	Isosorbide Production from Sorbitol over Heterogeneous Acid Catalysts: Screening and Kinetic Study. <i>Topics in Catalysis</i> , 2017, 60, 1027-1039.	2.8	14
125	Crystallization mechanism of Al-Ti-beta zeolite synthesized from amorphous wetness impregnated xerogels. <i>Journal of Materials Chemistry</i> , 1999, 9, 2899-2905.	6.7	13
126	Crystallization mechanism of Al-TS-1 synthesised from amorphous wetness-impregnated Al ₂ O ₃ -TiO ₂ -SiO ₂ xerogels: role of aluminium species. <i>Journal of Materials Chemistry</i> , 2001, 11, 1519-1525.	6.7	13

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127	Intensified-Fenton process for the treatment of phenol aqueous solutions. <i>Water Science and Technology</i> , 2015, 71, 359-365.	2.5	13
128	Temperature Effect on Pretreatment of the Activated Carbon Support (Pt/AC and Pd/AC) for Glycerin into Lactic Acid. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 14643-14657.	3.7	13
129	Study of highly furfural-containing refinery wastewater streams using a conventional homogeneous Fenton process. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104894.	6.7	13
130	Application of a Fenton process for the pretreatment of an iron-containing oily sludge: A sustainable management for refinery wastes. <i>Journal of Environmental Management</i> , 2022, 304, 114244.	7.8	13
131	Liquid-phase isophorone oxide rearrangement over mesoporous Al-MCM-41 materials. <i>Journal of Catalysis</i> , 2005, 236, 122-128.	6.2	12
132	Treatment of an agrochemical wastewater by combined coagulation and Fenton oxidation. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 1189-1196.	3.2	12
133	Mo(VI) Complexes Immobilized on SBA-15 as an Efficient Catalyst for 1-Octene Epoxidation. <i>Catalysts</i> , 2017, 7, 215.	3.5	12
134	Sustainable Catalytic Conversion of Biomass for the Production of Biofuels and Bioproducts. <i>Catalysts</i> , 2020, 10, 581.	3.5	12
135	Catalytic wet hydrogen peroxide oxidation of a petrochemical wastewater. <i>Water Science and Technology</i> , 2010, 61, 1829-1836.	2.5	11
136	Integrated sustainable process for polyhydroxyalkanoates production from lignocellulosic waste by purple phototrophic bacteria. <i>GCB Bioenergy</i> , 2021, 13, 862-875.	5.6	11
137	Sulfonic Mesostructured SBA-15 Silicas for the Solvent-Free Production of Bio-Jet Fuel Precursors via Aldol Dimerization of Levulinic Acid. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 5952-5962.	6.7	11
138	Catalytic wet peroxidation of phenol in a fixed bed reactor. <i>Water Science and Technology</i> , 2007, 55, 75-81.	2.5	9
139	Extrusion of Fe ₂ O ₃ /SBA-15 mesoporous material for application as heterogeneous Fenton-like catalyst. <i>AIMS Environmental Science</i> , 2015, 2, 154-168.	1.4	9
140	Self-condensation of levulinic acid into bio-jet fuel precursors over acid zeolites: Elucidating the role of nature, strength and density of acid sites. <i>Applied Catalysis A: General</i> , 2022, 631, 118480.	4.3	9
141	Synthesis of MTBE from isobutane using a single catalytic system based on titanium-containing ZSM-5 zeolite. <i>Chemical Communications</i> , 1996, , 1145.	4.1	7
142	Simple and efficient treatment of high-strength industrial waste water using commercial zero-valent iron. <i>Chemical Papers</i> , 2016, 70, .	2.2	7
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