

# Rafael Luque

## List of Publications by Citations

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**Version:** 2024-04-23

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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.

636  
papers

29,511  
citations

78  
h-index

149  
g-index

712  
ext. papers

34,248  
ext. citations

9.3  
avg, IF

7.87  
L-index

#	Paper	IF	Citations
636	Magnetically recoverable nanocatalysts. <i>Chemical Reviews</i> , <b>2011</b> , 111, 3036-75	68.1	1386
635	Supported metal nanoparticles on porous materials. Methods and applications. <i>Chemical Society Reviews</i> , <b>2009</b> , 38, 481-94	58.5	981
634	Food waste as a valuable resource for the production of chemicals, materials and fuels. Current situation and global perspective. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 426	35.4	726
633	Lignin depolymerisation strategies: towards valuable chemicals and fuels. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 7485-500	58.5	687
632	Transformations of biomass-derived platform molecules: from high added-value chemicals to fuels via aqueous-phase processing. <i>Chemical Society Reviews</i> , <b>2011</b> , 40, 5266-81	58.5	628
631	Sustainable preparation of supported metal nanoparticles and their applications in catalysis. <i>ChemSusChem</i> , <b>2009</b> , 2, 18-45	8.3	623
630	Ordered macro-microporous metal-organic framework single crystals. <i>Science</i> , <b>2018</b> , 359, 206-210	33.3	570
629	Benign by design: catalyst-free in-water, on-water green chemical methodologies in organic synthesis. <i>Chemical Society Reviews</i> , <b>2013</b> , 42, 5522-51	58.5	487
628	Nanostructured materials for photocatalysis. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 3868-3902	58.5	479
627	Biofuels: a technological perspective. <i>Energy and Environmental Science</i> , <b>2008</b> , 1, 542	35.4	468
626	Heterogeneous photocatalytic nanomaterials: prospects and challenges in selective transformations of biomass-derived compounds. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 765-78	58.5	439
625	Ni-based bimetallic heterogeneous catalysts for energy and environmental applications. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 3314-3347	35.4	413
624	Controllable design of tunable nanostructures inside metal-organic frameworks. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 4614-4630	58.5	380
623	Liquid phase oxidation chemistry in continuous-flow microreactors. <i>Chemical Society Reviews</i> , <b>2016</b> , 45, 83-117	58.5	344
622	Advances on biomass pretreatment using ionic liquids: An overview. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 3913	35.4	343
621	Tunable porous carbonaceous materials from renewable resources. <i>Chemical Society Reviews</i> , <b>2009</b> , 38, 3401-18	58.5	337
620	Green chemistry and the biorefinery: a partnership for a sustainable future. <i>Green Chemistry</i> , <b>2006</b> , 8, 853	10	261

619	Hydrodeoxygenation processes: advances on catalytic transformations of biomass-derived platform chemicals into hydrocarbon fuels. <i>Bioresource Technology</i> , <b>2015</b> , 178, 108-118	11	238
618	Unprecedented metal-free 3D porous carbonaceous electrodes for full water splitting. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 1210-1214	35.4	237
617	A review on sustainable microalgae based biofuel and bioenergy production: Recent developments. <i>Journal of Cleaner Production</i> , <b>2018</b> , 181, 42-59	10.3	234
616	Recent catalytic routes for the preparation and the upgrading of biomass derived furfural and 5-hydroxymethylfurfural. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 4273-4306	58.5	218
615	Solvent-free and catalysts-free chemistry: a benign pathway to sustainability. <i>ChemSusChem</i> , <b>2014</b> , 7, 24-44	8.3	215
614	Starbons: new starch-derived mesoporous carbonaceous materials with tunable properties. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 3782-6	16.4	211
613	Recent development of carbon electrode materials and their bioanalytical and environmental applications. <i>Chemical Society Reviews</i> , <b>2016</b> , 45, 715-52	58.5	205
612	Mechanochemical synthesis of advanced nanomaterials for catalytic applications. <i>Chemical Communications</i> , <b>2015</b> , 51, 6698-713	5.8	199
611	Microwave-assisted pyrolysis of biomass feedstocks: the way forward?. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 5481-5488	35.4	198
610	Biodiesel as feasible petrol fuel replacement: a multidisciplinary overview. <i>Energy and Environmental Science</i> , <b>2010</b> , 3, 1706	35.4	198
609	Metal-organic framework encapsulated Pd nanoparticles: towards advanced heterogeneous catalysts. <i>Chemical Science</i> , <b>2014</b> , 5, 3708-3714	9.4	190
608	Carbon-Increasing Catalytic Strategies for Upgrading Biomass into Energy-Intensive Fuels and Chemicals. <i>ACS Catalysis</i> , <b>2018</b> , 8, 148-187	13.1	188
607	Palladium nanoparticles on polysaccharide-derived mesoporous materials and their catalytic performance in C-C coupling reactions. <i>Green Chemistry</i> , <b>2008</b> , 10, 382-387	10	186
606	Biomass-Derived Porous Carbon Materials: Synthesis and Catalytic Applications. <i>ChemCatChem</i> , <b>2015</b> , 7, 1608-1629	5.2	173
605	Green chemistry, biofuels, and biorefinery. <i>Annual Review of Chemical and Biomolecular Engineering</i> , <b>2012</b> , 3, 183-207	8.9	170
604	Advances on waste valorization: new horizons for a more sustainable society. <i>Energy Science and Engineering</i> , <b>2013</b> , 1, 53-71	3.4	156
603	Waste-to-wealth: biowaste valorization into valuable bio(nano)materials. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 4791-4822	58.5	152
602	Functional metal-organic frameworks for catalytic applications. <i>Coordination Chemistry Reviews</i> , <b>2019</b> , 388, 268-292	23.2	151

601	Controllable Encapsulation of "Clean" Metal Clusters within MOFs through Kinetic Modulation: Towards Advanced Heterogeneous Nanocatalysts. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 5019-23	16.4	150
600	Solvothermal synthesis of metal nanocrystals and their applications. <i>Nano Today</i> , <b>2015</b> , 10, 240-267	17.9	149
599	Versatile mesoporous carbonaceous materials for acid catalysis. <i>Chemical Communications</i> , <b>2007</b> , 634-6	5.8	145
598	Mechanical pretreatments of lignocellulosic biomass: towards facile and environmentally sound technologies for biofuels production. <i>RSC Advances</i> , <b>2014</b> , 4, 48109-48127	3.7	143
597	Nanostructured Photocatalysts and Their Applications in the Photocatalytic Transformation of Lignocellulosic Biomass: An Overview. <i>Materials</i> , <b>2009</b> , 2, 2228-2258	3.5	141
596	Graphitic carbon nitride-based photocatalysts: Toward efficient organic transformation for value-added chemicals production. <i>Molecular Catalysis</i> , <b>2020</b> , 488, 110902	3.3	139
595	Efficient and selective hydrogenation of biomass-derived furfural to cyclopentanone using Ru catalysts. <i>Green Chemistry</i> , <b>2015</b> , 17, 4183-4188	10	133
594	Microwave-assisted depolymerisation of organosolv lignin via mild hydrogen-free hydrogenolysis: Catalyst screening. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 145, 43-55	21.8	133
593	Selective aerobic oxidation of biomass-derived HMF to 2,5-diformylfuran using a MOF-derived magnetic hollow Fe <sub>3</sub> O <sub>4</sub> nanocatalyst. <i>Green Chemistry</i> , <b>2016</b> , 18, 3152-3157	10	126
592	A highly stable and active magnetically separable Pd nanocatalyst in aqueous phase heterogeneously catalyzed couplings. <i>Green Chemistry</i> , <b>2013</b> , 15, 2132	10	125
591	Current and future trends in food waste valorization for the production of chemicals, materials and fuels: a global perspective. <i>Biofuels, Bioproducts and Biorefining</i> , <b>2014</b> , 8, 686-715	5.3	122
590	The Rise of Magnetically Recyclable Nanocatalysts. <i>ChemCatChem</i> , <b>2014</b> , 6, 3312-3313	5.2	119
589	Design and development of catalysts for Biomass-To-Liquid-Fischer-Tropsch (BTL-FT) processes for biofuels production. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 5186-5202	35.4	119
588	Development of Sulfonic-Acid-Functionalized Mesoporous Materials: Synthesis and Catalytic Applications. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 1614-1635	4.8	117
587	Zeolite and zeotype-catalysed transformations of biofuranic compounds. <i>Green Chemistry</i> , <b>2016</b> , 18, 5701-5735	10	113
586	Waste eggshell membrane-templated CuO-ZnO nanocomposites with enhanced adsorption, catalysis and antibacterial properties for water purification. <i>Chemical Engineering Journal</i> , <b>2019</b> , 369, 621-633	14.7	112
585	Biomass-Derived Carbonaceous Materials: Recent Progress in Synthetic Approaches, Advantages, and Applications. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 4564-4585	8.3	111
584	Benign-by-Design Solventless Mechanochemical Synthesis of Three-, Two-, and One-Dimensional Hybrid Perovskites. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 14972-14977	16.4	107

583	Incorporation of chemical functionalities in the framework of mesoporous silica. <i>Chemical Communications</i> , <b>2011</b> , 47, 9024-35	5.8	106
582	Towards a bio-based industry: benign catalytic esterifications of succinic acid in the presence of water. <i>Chemistry - A European Journal</i> , <b>2007</b> , 13, 6914-9	4.8	105
581	A novel highly active biomaterial supported palladium catalyst. <i>Green Chemistry</i> , <b>2005</b> , 7, 552	10	103
580	Seed-mediated growth of MOF-encapsulated Pd@Ag core-shell nanoparticles: toward advanced room temperature nanocatalysts. <i>Chemical Science</i> , <b>2016</b> , 7, 228-233	9.4	102
579	A Tuneable Bifunctional Water-Compatible Heterogeneous Catalyst for the Selective Aqueous Hydrogenation of Phenols. <i>Advanced Synthesis and Catalysis</i> , <b>2011</b> , 353, 3107-3113	5.6	101
578	Catalytic insights into the production of biomass-derived side products methyl levulinate, furfural and humins. <i>Catalysis Today</i> , <b>2018</b> , 302, 2-15	5.3	100
577	Highly active and selective supported iron oxide nanoparticles in microwave-assisted N-alkylations of amines with alcohols. <i>Green Chemistry</i> , <b>2010</b> , 12, 1281	10	100
576	Macroporous materials: microfluidic fabrication, functionalization and applications. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 855-914	58.5	99
575	Valorisation of orange peel residues: waste to biochemicals and nanoporous materials. <i>ChemSusChem</i> , <b>2012</b> , 5, 1694-7	8.3	98
574	Mechanochemistry: Toward Sustainable Design of Advanced Nanomaterials for Electrochemical Energy Storage and Catalytic Applications. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 9530-9544	8.3	97
573	Magnetically separable nanoferrite-anchored glutathione: aqueous homocoupling of arylboronic acids under microwave irradiation. <i>Green Chemistry</i> , <b>2010</b> , 12, 1540	10	97
572	Catalytic transformations of biomass-derived acids into advanced biofuels. <i>Catalysis Today</i> , <b>2012</b> , 195, 162-168	5.3	96
571	Metallacarboranes and their interactions: theoretical insights and their applicability. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 3445-63	58.5	96
570	Glycerol transformations on polysaccharide derived mesoporous materials. <i>Applied Catalysis B: Environmental</i> , <b>2008</b> , 82, 157-162	21.8	95
569	Phytosterols from <i>Dunaliella tertiolecta</i> and <i>Dunaliella salina</i> : a potentially novel industrial application. <i>Bioresource Technology</i> , <b>2010</b> , 101, 4144-50	11	93
568	An overview of novel technologies to valorise coke oven gas surplus. <i>Fuel Processing Technology</i> , <b>2013</b> , 110, 150-159	7.2	92
567	Nanocatalysis in continuous flow: supported iron oxide nanoparticles for the heterogeneous aerobic oxidation of benzyl alcohol. <i>Green Chemistry</i> , <b>2013</b> , 15, 1530	10	92
566	Significant promoting effects of Lewis acidity on Au-Pd systems in the selective oxidation of aromatic hydrocarbons. <i>Chemical Communications</i> , <b>2012</b> , 48, 8431-3	5.8	89

565	Designed multimetallic Pd nanospheres with enhanced electrocatalytic activity for ethylene glycol and glycerol oxidation. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 3097-3102	35.4	88
564	Efficient aqueous hydrogenation of biomass platform molecules using supported metal nanoparticles on Starbons. <i>Chemical Communications</i> , <b>2009</b> , 5305-7	5.8	87
563	Mild ultrasound-assisted synthesis of TiO <sub>2</sub> supported on magnetic nanocomposites for selective photo-oxidation of benzyl alcohol. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 183, 107-112	21.8	85
562	Applications of ionic liquids in the removal of contaminants from refinery feedstocks: an industrial perspective. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 2414-2447	35.4	85
561	Aryl alkynylation versus alkyne homocoupling: unprecedented selectivity switch in Cu, phosphine and solvent-free heterogeneous Pd-catalysed couplings. <i>Tetrahedron</i> , <b>2005</b> , 61, 9860-9868	2.4	85
560	A covalent organic framework-based route to the encapsulation of metal nanoparticles in N-rich hollow carbon spheres. <i>Chemical Science</i> , <b>2016</b> , 7, 6015-6020	9.4	80
559	Magnetically separable nanocomposites with photocatalytic activity under visible light for the selective transformation of biomass-derived platform molecules. <i>Green Chemistry</i> , <b>2011</b> , 13, 2750	10	80
558	Continuous flow transformations of glycerol to valuable products: an overview. <i>Sustainable Chemical Processes</i> , <b>2014</b> , 2,		78
557	Algal biofuels: the eternal promise?. <i>Energy and Environmental Science</i> , <b>2010</b> , 3, 254	35.4	78
556	Catalytic Transfer Hydrogenolysis of Lignin-Derived Aromatic Ethers Promoted by Bimetallic Pd/Ni Systems. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 9269-9276	8.3	77
555	Heterogeneously Catalysed Mild Hydrogenolytic Depolymerisation of Lignin Under Microwave Irradiation with Hydrogen-Donating Solvents. <i>ChemCatChem</i> , <b>2013</b> , 5, 977-985	5.2	77
554	Fractionation of organosolv lignin from olive tree clippings and its valorization to simple phenolic compounds. <i>ChemSusChem</i> , <b>2013</b> , 6, 529-36	8.3	77
553	Chemical transformations of succinic acid recovered from fermentation broths by a novel direct vacuum distillation-crystallisation method. <i>Green Chemistry</i> , <b>2009</b> , 11, 193-200	10	76
552	Stress-Transfer-Induced In Situ Formation of Ultrathin Nickel Phosphide Nanosheets for Efficient Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 13082-13085	16.4	75
551	Microwave facile preparation of highly active and dispersed SBA-12 supported metal nanoparticles. <i>Green Chemistry</i> , <b>2008</b> , 10, 853	10	75
550	Palladium Nanoparticles Supported in the Nanospaces of Imidazolium-Based Bifunctional PMOs: The Role of Plugs in Selectivity Changeover in Aerobic Oxidation of Alcohols. <i>ACS Catalysis</i> , <b>2015</b> , 5, 4189-4200	13.1	74
549	Efficient microwave-assisted production of furfural from C5 sugars in aqueous media catalysed by Brønsted acidic ionic liquids. <i>Catalysis Science and Technology</i> , <b>2012</b> , 2, 1828	5.5	74
548	Fe/Al synergy in Fe <sub>2</sub> O <sub>3</sub> nanoparticles supported on porous aluminosilicate materials: excelling activities in oxidation reactions. <i>Chemical Communications</i> , <b>2010</b> , 46, 7825-7	5.8	74

547	Sustainable preparation of a novel glycerol-free biofuel by using pig pancreatic lipase: Partial 1,3-regiospecific alcoholysis of sunflower oil. <i>Process Biochemistry</i> , <b>2009</b> , 44, 334-342	4.8	74
546	Valorisation of food residues: waste to wealth using green chemical technologies. <i>Sustainable Chemical Processes</i> , <b>2013</b> , 1,		73
545	3D Porous Carbonaceous Electrodes for Electrocatalytic Applications. <i>Joule</i> , <b>2018</b> , 2, 76-93	27.8	72
544	Catalytic applications of a versatile magnetically separable FeMo (Nanocat-FeMo) nanocatalyst. <i>Green Chemistry</i> , <b>2013</b> , 15, 682	10	72
543	Synthesis of acidic Al-MCM-48: influence of the Si/Al ratio, degree of the surfactant hydroxyl exchange, and post-treatment in NHF solution. <i>Journal of Catalysis</i> , <b>2005</b> , 230, 327-338	7.3	72
542	Ruthenium-bickel-bickel hydroxide nanoparticles for room temperature catalytic hydrogenation. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 7869-7875	13	70
541	Para-hydrogen induced polarisation effects in liquid phase hydrogenations catalysed by supported metal nanoparticles. <i>Dalton Transactions</i> , <b>2009</b> , 5074-6	4.3	70
540	A Simple and Efficient Route to Active and Dispersed Silica Supported Palladium Nanoparticles. <i>Catalysis Letters</i> , <b>2008</b> , 124, 204-214	2.8	70
539	Efficient microwave oxidation of alcohols using low-loaded supported metallic iron nanoparticles. <i>ChemSusChem</i> , <b>2008</b> , 1, 746-50	8.3	70
538	Thermo-Photocatalysis: Environmental and Energy Applications. <i>ChemSusChem</i> , <b>2019</b> , 12, 2098-2116	8.3	69
537	Efficient one-pot fructose to DFF conversion using sulfonated magnetically separable MOF-derived Fe <sub>3</sub> O <sub>4</sub> (111) catalysts. <i>Green Chemistry</i> , <b>2017</b> , 19, 647-655	10	68
536	Activity of Gallium and Aluminum SBA-15 materials in the Friedel-Crafts alkylation of toluene with benzyl chloride and benzyl alcohol. <i>Applied Catalysis A: General</i> , <b>2008</b> , 349, 148-155	5.1	68
535	SnTUD-1: a solid acid catalyst for three component coupling reactions at room temperature. <i>Green Chemistry</i> , <b>2013</b> , 15, 2158	10	67
534	Efficient and Highly Selective Aqueous Oxidation of Sulfides to Sulfoxides at Room Temperature Catalysed by Supported Iron Oxide Nanoparticles on SBA-15. <i>Advanced Synthesis and Catalysis</i> , <b>2011</b> , 353, 2060-2066	5.6	67
533	Catalytic performance of carbonaceous materials in the esterification of succinic acid. <i>Catalysis Communications</i> , <b>2008</b> , 9, 1709-1714	3.2	67
532	Selective heavy metal removal and water purification by microfluidically-generated chitosan microspheres: Characteristics, modeling and application. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 364, 192-205	12.8	67
531	Efficient hydrogenation of carbonyl compounds using low-loaded supported copper nanoparticles under microwave irradiation. <i>Applied Catalysis A: General</i> , <b>2010</b> , 379, 38-44	5.1	66
530	Enhancing photocatalytic performance of TiO <sub>2</sub> in H <sub>2</sub> evolution via Ru co-catalyst deposition. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 238, 434-443	21.8	65

529	Development and characterization of novel poly(ether ether ketone)/ZnO bionanocomposites. <i>Journal of Materials Chemistry B</i> , <b>2014</b> , 2, 3065-3078	7.3	64
528	A dry milling approach for the synthesis of highly active nanoparticles supported on porous materials. <i>ChemSusChem</i> , <b>2011</b> , 4, 1561-5	8.3	64
527	Tunable mesoporous materials optimised for aqueous phase esterifications. <i>Green Chemistry</i> , <b>2007</b> , 9, 992	10	64
526	Hibiscus Rosasinensis L. aqueous extract-assisted valorization of lignin: Preparation of magnetically reusable Pd NPs@FeO-lignin for Cr(VI) reduction and Suzuki-Miyaura reaction in eco-friendly media. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 148, 265-275	7.9	63
525	Facile preparation of a nanostructured functionalized catalytically active organosalt. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 770-777	13	63
524	Starbons: New Starch-Derived Mesoporous Carbonaceous Materials with Tunable Properties. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 3866-3870	3.6	62
523	Unprecedented Selective Oxidation of Styrene Derivatives using a Supported Iron Oxide Nanocatalyst in Aqueous Medium. <i>Advanced Synthesis and Catalysis</i> , <b>2012</b> , 354, 1707-1711	5.6	61
522	Microwave efficient S-arylation of thiols with aryl iodides using supported metal nanoparticles. <i>Chemical Communications</i> , <b>2009</b> , 1410-2	5.8	61
521	Environmental Catalysis: Present and Future. <i>ChemCatChem</i> , <b>2019</b> , 11, 18-38	5.2	61
520	Hard-templated metal-organic frameworks for advanced applications. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 2927-2953	58.5	61
519	Benign-by-design nature-inspired nanosystems in biofuels production and catalytic applications. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 112, 195-252	16.2	60
518	Water-tolerant Ru-Starbon $\square$ materials for the hydrogenation of organic acids in aqueous ethanol. <i>Catalysis Communications</i> , <b>2010</b> , 11, 928-931	3.2	60
517	Effect of Phosphate Precursor and Organic Additives on the Structural and Catalytic Properties of Amorphous Mesoporous AlPO <sub>4</sub> Materials. <i>Chemistry of Materials</i> , <b>2003</b> , 15, 3352-3364	9.6	60
516	Enhanced catalytic benzene oxidation over a novel waste-derived Ag/eggshell catalyst. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 8832-8844	13	59
515	Efficient tandem aqueous room temperature oxidative amidations catalysed by supported Pd nanoparticles on graphene oxide. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 4124-4133	5.5	59
514	Continuous flow nanocatalysis: reaction pathways in the conversion of levulinic acid to valuable chemicals. <i>Green Chemistry</i> , <b>2013</b> , 15, 2786	10	58
513	Recent Advances in the Synthesis and Electrocatalytic Applications of Platinum-Based Bimetallic Alloy Nanostructures. <i>ChemCatChem</i> , <b>2015</b> , 7, 3206-3228	5.2	58
512	Functionalized chitosan biosorbents with ultra-high performance, mechanical strength and tunable selectivity for heavy metals in wastewater treatment. <i>Chemical Engineering Journal</i> , <b>2017</b> , 325, 350-359	14.7	57



511	Valorisation of corncob residues to functionalised porous carbonaceous materials for the simultaneous esterification/transesterification of waste oils. <i>Green Chemistry</i> , <b>2011</b> , 13, 3162	10	57
510	Industrial Applications of C-C Coupling Reactions. <i>Current Organic Synthesis</i> , <b>2010</b> , 7, 614-627	1.9	57
509	Catalyzed Microwave-Assisted Preparation of Carbon Quantum Dots from Lignocellulosic Residues. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 7200-7205	8.3	56
508	Microwave assisted oxidation of a lignin model phenolic monomer using Co(salen)/SBA-15. <i>Catalysis Communications</i> , <b>2009</b> , 10, 1010-1013	3.2	56
507	Efficient and selective copper-grafted nanoporous silica in aqueous conversion of aldehydes to amides. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 199-205	5.5	55
506	Facile surfactant-free synthesis and characterization of Fe <sub>3</sub> O <sub>4</sub> @3-aminophenol/formaldehyde core-shell magnetic microspheres. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 519-524	13	55
505	To be or not to be metal-free: trends and advances in coupling chemistries. <i>Organic and Biomolecular Chemistry</i> , <b>2014</b> , 12, 10-35	3.9	55
504	Efficient and simple reactive milling preparation of photocatalytically active porous ZnO nanostructures using biomass derived polysaccharides. <i>Green Chemistry</i> , <b>2014</b> , 16, 2876-2885	10	55
503	Room-Temperature Organocatalytic Cycloaddition of Azides with $\beta$ -Keto Sulfones: Toward Sulfonyl-1,2,3-triazoles. <i>Organic Letters</i> , <b>2015</b> , 17, 6206-9	6.2	55
502	A review of progress in (bio)catalytic routes from/to renewable succinic acid. <i>Biofuels, Bioproducts and Biorefining</i> , <b>2017</b> , 11, 908-931	5.3	54
501	Heterogeneously catalyzed strategies for the deconstruction of high density polyethylene: plastic waste valorisation to fuels. <i>Green Chemistry</i> , <b>2015</b> , 17, 146-156	10	53
500	From alkyl aromatics to aromatic esters: efficient and selective C-H activation promoted by a bimetallic heterogeneous catalyst. <i>ChemSusChem</i> , <b>2012</b> , 5, 1892-6	8.3	53
499	A silica supported cobalt (II) Salen complex as efficient and reusable catalyst for the selective aerobic oxidation of ethyl benzene derivatives. <i>Catalysis Communications</i> , <b>2011</b> , 12, 510-513	3.2	53
498	Production of a new second generation biodiesel with a low cost lipase derived from <i>Thermomyces lanuginosus</i> : Optimization by response surface methodology. <i>Catalysis Today</i> , <b>2011</b> , 167, 107-112	5.3	53
497	Microwave-assisted synthesis of oligothiophene semiconductors in aqueous media using silica and chitosan supported Pd catalysts. <i>Green Chemistry</i> , <b>2008</b> , 10, 517	10	53
496	Continuous Flow Conversion of Biomass-Derived Methyl Levulinate into $\gamma$ -Valerolactone Using Functional Metal Organic Frameworks. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 6746-6752	8.3	52
495	Alternative Perovskites for Photovoltaics. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703120	21.8	52
494	Waste Eggshell-Derived Dual-Functional CuO/ZnO/Eggshell Nanocomposites: (Photo)catalytic Reduction and Bacterial Inactivation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 15762-15771	8.3	52

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489	A seawater-based biorefining strategy for fermentative production and chemical transformations of succinic acid. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 1471	35.4	52
488	Evidences of the in situ generation of highly active Lewis acid species on Zr-SBA-15. <i>Applied Catalysis A: General</i> , <b>2009</b> , 371, 85-91	5.1	52
487	Recent advances in sulfonated resin catalysts for efficient biodiesel and bio-derived additives production. <i>Progress in Energy and Combustion Science</i> , <b>2018</b> , 65, 136-162	33.6	52
486	Novel Applications of Microbial Fuel Cells in Sensors and Biosensors. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 1184	2.6	51
485	Dual-colored carbon dot encapsulated metal-organic framework for ratiometric detection of glutathione. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 297, 126775	8.5	51
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482	Layer-Wise Titania Growth Within Dimeric Organic Functional Group Viologen Periodic Mesoporous Organosilica as Efficient Photocatalyst for Oxidative Formic Acid Decomposition. <i>ChemCatChem</i> , <b>2019</b> , 11, 4803-4809	5.2	50
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480	Upgrading of marine (fish and crustaceans) biowaste for high added-value molecules and bio(nano)-materials. <i>Chemical Society Reviews</i> , <b>2020</b> ,	58.5	49
479	Encapsulation of ultrafine metal-oxide nanoparticles within mesopores for biomass-derived catalytic applications. <i>Chemical Science</i> , <b>2018</b> , 9, 1854-1859	9.4	49
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472	Highly efficient thermally stable perovskite solar cells via Cs:NiO /CuSCN double-inorganic hole extraction layer interface engineering. <i>Materials Today</i> , <b>2019</b> , 26, 8-18	21.8	44
471	Microalgae cultivation and metabolites production: a comprehensive review. <i>Biofuels, Bioproducts and Biorefining</i> , <b>2018</b> , 12, 304-324	5.3	44
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469	Chemical transformations of glucose to value added products using Cu-based catalytic systems. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 12165-72	3.6	44
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467	Recent Advances in the Catalytic Production of Platform Chemicals from Holocellulosic Biomass. <i>ChemCatChem</i> , <b>2019</b> , 11, 2022-2042	5.2	44
466	Zeolite catalyzed palmitic acid esterification. <i>Microporous and Mesoporous Materials</i> , <b>2018</b> , 262, 133-139	5.3	44
465	Co(salen)/SBA-15 catalysed oxidation of a 2D-4 phenolic dimer under microwave irradiation. <i>Catalysis Communications</i> , <b>2011</b> , 12, 993-995	3.2	43
464	Microwave-assisted catalysis by iron oxide nanoparticles on MCM-41: Effect of the support morphology. <i>Applied Catalysis A: General</i> , <b>2013</b> , 453, 383-390	5.1	42
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448	Design of chitosan-dithiocarbamate magnetically separable catalytic nanocomposites for greener aqueous oxidations at room temperature. <i>Molecular Catalysis</i> , <b>2017</b> , 434, 7-15	3.3	38
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444	Solventless mechanochemical synthesis of magnetic functionalized catalytically active mesoporous SBA-15 nanocomposites. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 387-393	13	38
443	Catalytically active self-assembled silica-based nanostructures containing supported nanoparticles. <i>Green Chemistry</i> , <b>2010</b> , 12, 1995	10	37
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438	Aqueous oxidation of alcohols catalysed by recoverable iron oxide nanoparticles supported on aluminosilicates. <i>Green Chemistry</i> , <b>2013</b> , 15, 1232	10	36
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436	Supported gold nanoparticles as efficient and reusable heterogeneous catalyst for cycloisomerization reactions. <i>Green Chemistry</i> , <b>2015</b> , 17, 3314-3318	10	35
435	Innovative combined dry fractionation technologies for rice straw valorization to biofuels. <i>Green Chemistry</i> , <b>2015</b> , 17, 926-936	10	35
434	Mechanochemical synthesis of three double perovskites: CsAgBiBr, (CHNH)TlBiBr and CsAgSbBr. <i>Nanoscale</i> , <b>2019</b> , 11, 16650-16657	7.7	35
433	Iron oxide functionalised MIL-101 materials in aqueous phase selective oxidations. <i>Applied Catalysis A: General</i> , <b>2013</b> , 455, 261-266	5.1	35
432	Towards industrial furfural conversion: Selectivity and stability of palladium and platinum catalysts under continuous flow regime. <i>Catalysis Today</i> , <b>2018</b> , 308, 32-37	5.3	34
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428	Heterogeneous Pd catalyst for mild solvent-free oxidation of benzyl alcohol. <i>Journal of Molecular Catalysis A</i> , <b>2016</b> , 425, 61-67		34
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424	A review on greywater reuse: quality, risks, barriers and global scenarios. <i>Reviews in Environmental Science and Biotechnology</i> , <b>2019</b> , 18, 77-99	13.9	33
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4 <sup>20</sup>	Activity of continuous flow synthesized Pd-based nanocatalysts in the flow hydroconversion of furfural. <i>Tetrahedron</i> , <b>2017</b> , 73, 5599-5604	2.4	31
4 <sup>19</sup>	An efficient route to 1,8-dioxo-octahydroxanthenes and -decahydroacridines using a sulfated zirconia catalyst. <i>Catalysis Communications</i> , <b>2017</b> , 97, 138-145	3.2	31
4 <sup>18</sup>	Bentonites Modified with Phosphomolybdic Heteropolyacid (HPMo) for Biowaste to Biofuel Production. <i>Materials</i> , <b>2019</b> , 12,	3.5	31
4 <sup>17</sup>	Continuous Flow Selective Hydrogenation of 5-Hydroxymethylfurfural to 2,5-Dimethylfuran Using Highly Active and Stable CuPd/Reduced Graphene Oxide. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 14210-14216	8.3	31
4 <sup>16</sup>	Continuous flow valorization of fatty acid waste using silica-immobilized lipases. <i>Green Chemistry</i> , <b>2013</b> , 15, 518	10	31
4 <sup>15</sup>	High alkylation activities of ball-milled synthesized low-load supported iron oxide nanoparticles on mesoporous aluminosilicates. <i>Catalysis Today</i> , <b>2012</b> , 187, 65-69	5.3	31
4 <sup>14</sup>	Heterogeneously catalysed Strecker-type reactions using supported Co(II) catalysts: microwave vs. conventional heating. <i>Green Chemistry</i> , <b>2011</b> , 13, 3282	10	31
4 <sup>13</sup>	Molecular-level understanding of the carbonisation of polysaccharides. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 9351-7	4.8	30
4 <sup>12</sup>	Multifunctional magnetic Fe <sub>3</sub> O <sub>4</sub> /nitrogen-doped porous carbon nanocomposites for removal of dyes and sensing applications. <i>Applied Surface Science</i> , <b>2019</b> , 467-468, 89-97	6.7	30
4 <sup>11</sup>	Catalytically active designer crown-jewel Pd-based nanostructures encapsulated in metal-organic frameworks. <i>Chemical Communications</i> , <b>2017</b> , 53, 1184-1187	5.8	29
4 <sup>10</sup>	Visible Light CO <sub>2</sub> Reduction to CH <sub>4</sub> Using Hierarchical Yolk@shell TiO <sub>2</sub> /Hx Modified with Plasmonic AuPd Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 3689-3696	8.3	29
4 <sup>09</sup>	Tailoring the ORR and HER electrocatalytic performances of gold nanoparticles through metal@gand interfaces. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 20425-20434	13	29
4 <sup>08</sup>	Cooking with Active Oxygen and Solid Alkali: A Promising Alternative Approach for Lignocellulosic Biorefineries. <i>ChemSusChem</i> , <b>2017</b> , 10, 3982-3993	8.3	29
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4 <sup>06</sup>	Supported cobalt complex-catalysed conjugate addition of indoles, amines and thiols to $\alpha$ -unsaturated compounds. <i>Green Chemistry</i> , <b>2010</b> , 12, 786	10	29
4 <sup>05</sup>	Preparation of highly active and dispersed platinum nanoparticles on mesoporous Al-MCM-48 and their activity in the hydroisomerisation of n-octane. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 5988-95	4.8	29
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