

# Rafael Luque

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/9187411/rafael-luque-publications-by-year.pdf>

**Version:** 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Recent advances on catalytic deoxygenation of residues for bio-oil production: An overview. <i>Molecular Catalysis</i> , <b>2022</b> , 518, 112052	3.3	4
635	Low-dimensional heterostructures for advanced electrocatalysis: an experimental and computational perspective.. <i>Chemical Society Reviews</i> , <b>2022</b> ,	58.5	6
634	Bio-Construction of CuO Nanoparticles Using Texas Sage Plant Extract for catalytical degradation of Methylene blue Via Photocatalysis. <i>Journal of Molecular Structure</i> , <b>2022</b> , 1256, 132522	3.4	2
633	Efficient transfer hydrogenation of alkyl levulinates to $\gamma$ -Valerolactone catalyzed by simple $ZrTiO_2$ metal oxide systems. <i>Materials Today Chemistry</i> , <b>2022</b> , 24, 100745	6.2	1
632	Understanding flow chemistry for the production of active pharmaceutical ingredients.. <i>IScience</i> , <b>2022</b> , 25, 103892	6.1	2
631	Liquid hot water as sustainable biomass pretreatment technique for bioenergy production: A review. <i>Bioresource Technology</i> , <b>2022</b> , 344, 126207	11	25
630	Conversion of biomass-derived feedstocks into value-added chemicals over single-atom catalysts. <i>Green Chemistry</i> , <b>2022</b> , 24, 2267-2286	10	4
629	Silver and Gold Nanoparticles for Antimicrobial Purposes against Multi-Drug Resistance Bacteria.. <i>Materials</i> , <b>2022</b> , 15,	3.5	7
628	Artificial Coal: Facile and Green Production Method via Low-Temperature Hydrothermal Carbonization of Lignocellulose. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2022</b> , 10, 3335-3345	8.3	0
627	Catalyst-Based Synthesis of 2,5-Dimethylfuran from Carbohydrates as a Sustainable Biofuel Production Route. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2022</b> , 10, 3079-3115	8.3	8
626	Identification of Catalytic Active Sites for Durable Proton Exchange Membrane Fuel Cell: Catalytic Degradation and Poisoning Perspectives.. <i>Small</i> , <b>2022</b> , e2106279	11	4
625	Efficient Synthesis of Dihydropyrimidines Using a Highly Ordered Mesoporous Functionalized Pyridinium Organosilica. <i>Catalysts</i> , <b>2022</b> , 12, 350	4	
624	Computational Mechanism of Methyl Levulinate Conversion to $\gamma$ -Valerolactone on UiO-66 Metal Organic Frameworks.. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2022</b> , 10, 3567-3573	8.3	1
623	Effects on the Physicochemical Properties of Hydrochar Originating from Deep Eutectic Solvent (Urea and $ZnCl_2$ )-Assisted Hydrothermal Carbonization of Sewage Sludge. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2022</b> , 10, 4258-4268	8.3	0
622	Facile and straightforward synthesis of Hydrazone derivatives. <i>Journal of Nanomaterials</i> , <b>2022</b> , 2022, 1-6	3.2	0
621	Molecular Catalysis for the Chemistry of the future: a perspective. <i>Molecular Catalysis</i> , <b>2022</b> , 522, 112233	3.3	2
620	Low-amount palladium supported on Fe-Cu MOF: Synergetic effect between Pd, Cu and Fe in Sonogashira-Hagihara coupling reaction and reduction of organic dyes. <i>Molecular Catalysis</i> , <b>2022</b> , 522, 112199	3.3	2

619	Novel iron carbide based catalysts for biomass valorisation. <i>Journal of Cleaner Production</i> , <b>2022</b> , 347, 131279	10.3	0
618	Valorisation of nuts biowaste: Prospects in sustainable bio(nano)catalysts and environmental applications. <i>Journal of Cleaner Production</i> , <b>2022</b> , 347, 131220	10.3	13
617	Efficient and stable titania-based nanocatalytic materials for the reductive amination of furfural. <i>Materials Today Chemistry</i> , <b>2022</b> , 24, 100873	6.2	0
616	Carbohydrate-based nanostructured catalysts: applications in organic transformations. <i>Materials Today Chemistry</i> , <b>2022</b> , 24, 100869	6.2	3
615	Cu/cellulose-modified magnetite nanocomposites as a highly active and selective catalyst for ultrasound-promoted aqueous O-arylation Ullmann and sp-sp <sup>2</sup> Sonogashira cross-coupling reactions. <i>Sustainable Chemistry and Pharmacy</i> , <b>2022</b> , 27, 100672	3.9	1
614	Glycerol and Catalysis by Waste/Low-Cost Materials: A Review. <i>Catalysts</i> , <b>2022</b> , 12, 570	4	3
613	Humins as bio-based template for the synthesis of alumina foams. <i>Molecular Catalysis</i> , <b>2022</b> , 526, 112363	3.3	3
612	Trans-ferulic acid valorization into stilbene derivatives via tandem decarboxylation/Heck coupling using Pd/Al-SBA-15 materials. <i>Materials Today Chemistry</i> , <b>2022</b> , 25, 100971	6.2	1
611	Atomically Dispersed Heteronuclear Dual-Atom Catalysts: A New Rising Star in Atomic Catalysis.. <i>Small</i> , <b>2021</b> , e2106091	11	9
610	Heterogeneous Catalysis to Drive the Waste-to-Pharma Concept: From Furanics to Active Pharmaceutical Ingredients. <i>Molecules</i> , <b>2021</b> , 26,	4.8	1
609	Synthesis, Characterization and Photodegradation Studies of Copper Oxide/Graphene Nanocomposites. <i>Coatings</i> , <b>2021</b> , 11, 1452	2.9	0
608	UV-Light Mediated Biosynthesis of Silver Nanowires; Characterization, Dye Degradation Potential and Kinetic Studies. <i>Sustainability</i> , <b>2021</b> , 13, 13220	3.6	2
607	Metal-Organic Frameworks (MOFs) for Cancer Therapy. <i>Materials</i> , <b>2021</b> , 14,	3.5	10
606	Supported phosphine free bis-NHC palladium pincer complex: An efficient reusable nanocatalyst for Suzuki-Miyaura coupling reaction. <i>Molecular Catalysis</i> , <b>2021</b> , 515, 111928	3.3	2
605	Highly ordered mesoporous functionalized pyridinium protic ionic liquid framework as a highly efficient catalytic system in chemoselective thioacetalization of carbonyl compounds under solvent-free conditions. <i>Molecular Catalysis</i> , <b>2021</b> , 515, 111919	3.3	1
604	Visible-LED-light-driven photocatalytic synthesis of N-heterocycles mediated by a polyoxometalate-containing mesoporous zirconium metal-organic framework. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 303, 120815	21.8	2
603	Highly efficient and selective aqueous aerobic oxidation of sulfides to sulfoxides or sulfones catalyzed by tungstate-functionalized nanomaterial. <i>Molecular Catalysis</i> , <b>2021</b> , 515, 111931	3.3	2
602	Highly ordered mesoporous hybrid silica functionalized with ionic liquid framework supported copper and its application in the oxidation of alcohols. <i>Molecular Catalysis</i> , <b>2021</b> , 516, 111898	3.3	0

601	ZnO Nano-Flowers Assembled on Carbon Fiber Textile for High-Performance Supercapacitor Electrode. <i>Coatings</i> , <b>2021</b> , 11, 1337	2.9	6
600	Caffeine photocatalytic degradation using composites of NiO/TiO-F and CuO/TiO-F under UV irradiation. <i>Chemosphere</i> , <b>2021</b> , 288, 132506	8.4	4
599	Catalytic Hydrodenitrogenation of Pyridine under Hydrothermal Conditions: A Comprehensive Study. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 362-374	8.3	7
598	Metal-Organic Frameworks as Versatile Heterogeneous Solid Catalysts for Henry Reactions. <i>Molecules</i> , <b>2021</b> , 26,	4.8	11
597	Photocatalytic Cellulose-Paper: Deepening in the Sustainable and Synergic Combination of Sorption and Photodegradation. <i>ACS Omega</i> , <b>2021</b> , 6, 9577-9586	3.9	4
596	Mechanochemical Functionalization of Mesoporous Carbons for the Catalytic Transformation of trans-Ferulic Acid into Vanillin. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 4704-4710	8.3	3
595	Design of Fe-modified mesoporous nanostructures as efficient catalysts for microwave-assisted selective oxidations of sulfides. <i>Applied Catalysis A: General</i> , <b>2021</b> , 615, 118027	5.1	1
594	Mechanochemical Synthesis of Nickel-Modified Metal-Organic Frameworks for Reduction Reactions. <i>Catalysts</i> , <b>2021</b> , 11, 526	4	0
593	Catalytic wet hydrogen peroxide oxidation of isoeugenol to vanillin using microwave-assisted synthesized metal loaded catalysts. <i>Molecular Catalysis</i> , <b>2021</b> , 506, 111537	3.3	2
592	Editorial Catalysts: Special Issue on Heterogeneous Catalysis for Valorization of Lignocellulosic Biomass. <i>Catalysts</i> , <b>2021</b> , 11, 649	4	1
591	Exploiting the Potential of Biosilica from Rice Husk as Porous Support for Catalytically Active Iron Oxide Nanoparticles. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	3
590	Heterogeneous Photocatalysis. <i>ChemEngineering</i> , <b>2021</b> , 5, 26	2.6	2
589	Role of Biomass in the Production of Chemicals <b>2021</b> , 1-21		
588	Selectivity Control in the Oxidative Ring-Opening of Dimethylfuran Mediated by Zeolitic-Imidazolate Framework-8 Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 8090-8096	8.3	0
587	PdO Supported on TiO <sub>2</sub> for the Oxidative Condensation of Furfural with Ethanol: Insights on Reactivity and Product Selectivity. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 10100-10112	8.3	2
586	Selective continuous flow phenylacetylene hydrogenation over Pd-biogenic calcium carbonate. <i>Catalysis Today</i> , <b>2021</b> , 368, 181-186	5.3	3
585	Exploring the potential of biomass-templated Nb/ZnO nanocatalysts for the sustainable synthesis of N-heterocycles. <i>Catalysis Today</i> , <b>2021</b> , 368, 243-249	5.3	2
584	A green and reusable catalytic system based on silicopolyoxotungstovanadates incorporated in a polymeric material for the selective oxidation of sulfides to sulfones. <i>Microporous and Mesoporous Materials</i> , <b>2021</b> , 310, 110584	5.3	1

583	Heterogeneous catalysis under flow for the 21st century fine chemical industry. <i>Green Energy and Environment</i> , <b>2021</b> , 6, 161-166	5.7	16
582	Straightforward synthesis of a porous chromium-based porphyrinic metal-organic framework for visible-light triggered selective aerobic oxidation of benzyl alcohol to benzaldehyde. <i>Applied Catalysis A: General</i> , <b>2021</b> , 611, 117965	5.1	9
581	Thiol-functionalized PCN-222 MOF for fast and selective extraction of gold ions from aqueous media. <i>Separation and Purification Technology</i> , <b>2021</b> , 259, 118197	8.3	8
580	Improving the electrocatalytic performance of sustainable Co/carbon materials for the oxygen evolution reaction by ultrasound and microwave assisted synthesis. <i>Sustainable Energy and Fuels</i> , <b>2021</b> , 5, 720-731	5.8	10
579	MOF-derived cluster-shaped magnetic nanocomposite with hierarchical pores as an efficient and regenerative adsorbent for chlortetracycline removal. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 586, 433-444	9.3	10
578	Insulating rigid polyurethane foams from laurel tree pruning based polyol. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 49789	2.9	3
577	Continuous flow study of isoeugenol to vanillin: A bio-based iron oxide catalyst. <i>Catalysis Today</i> , <b>2021</b> , 368, 281-290	5.3	1
576	Biomass valorization: Catalytic approaches using benign-by-design nanomaterials. <i>Advances in Inorganic Chemistry</i> , <b>2021</b> , 77, 27-58	2.1	3
575	Metal doping of porous materials via a post-synthetic mechano-chemical approach: a general route to design low-loaded versatile catalytic systems. <i>Catalysis Science and Technology</i> , <b>2021</b> , 11, 2103-2109	5.5	1
574	Tuning CO binding strength via engineering the copper/borophene interface for highly efficient conversion of CO into ethanol. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 13192-13199	13	7
573	Nature-inspired hierarchical materials for sensing and energy storage applications. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 4856-4871	58.5	14
572	Sustainable production of pharmaceutical, nutraceutical and bioactive compounds from biomass and waste. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 11191-11207	58.5	23
571	Conversion of Lignocellulosic Biomass to Biofuels <b>2021</b> , 593-616		
570	Biocatalytic transformation of furfural into furfuryl alcohol using resting cells of <i>Bacillus cereus</i> . <i>Catalysis Today</i> , <b>2021</b> ,	5.3	6
569	Recent Applications of Heteropolyacids and Related Compounds in Heterocycle Synthesis. Contributions between 2010 and 2020. <i>Catalysts</i> , <b>2021</b> , 11, 291	4	3
568	Hierarchically Hollow MnO <sub>2</sub> @CeO <sub>2</sub> Heterostructures for NO Oxidation: Remarkably Promoted Activity and SO <sub>2</sub> Tolerance. <i>ACS Catalysis</i> , <b>2021</b> , 11, 10988-10996	13.1	8
567	Flower-like carbon cathode prepared via in situ assembly for Zn-ion hybrid supercapacitors. <i>Carbon</i> , <b>2021</b> , 180, 254-264	10.4	15
566	A Comparative Study of Cerium- and Ytterbium-Based GO/g-C <sub>3</sub> N <sub>4</sub> /Fe <sub>2</sub> O <sub>3</sub> Composites for Electrochemical and Photocatalytic Applications. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 9000	2.6	7

565	SBA-Pr-Is-TAP Functionalized Nanostructured Silica as a Highly Selective Fluorescent Chemosensor for Fe and CrO Ions in Aqueous Media. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	5
564	Integrating waste fish scale-derived gelatin and chitosan into edible nanocomposite film for perishable fruits. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 191, 1164-1174	7.9	9
563	Mechanistic insights into interfacial nano-synergistic effects in trimetallic Rh-on-NiCo on-CNTs for room temperature solvent-free hydrogenations. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 297, 120404	21.8	2
562	Innovative nanomaterials for energy storage: Moving toward nature-inspired systems. <i>Current Opinion in Green and Sustainable Chemistry</i> , <b>2021</b> , 32, 100520	7.9	2
561	Lewis acid (Ni <sup>2+</sup> , Co <sup>2+</sup> /3 <sup>+</sup> or Zn <sup>2+</sup> ) modified electron-deficient Ir <sup>4+</sup> in IrO <sub>2</sub> /CuO for promoting methane oxidation to ethanol and methanol. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 7094-7101	13	2
560	Magnetically recoverable catalysts for the preparation of pyridine derivatives: an overview.. <i>RSC Advances</i> , <b>2021</b> , 11, 17456-17477	3.7	12
559	Hard-templated metal-organic frameworks for advanced applications. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 2927-2953	58.5	61
558	Mechanochemically Synthesized PAN-Based Co-N-Doped Carbon Materials as Electrocatalyst for Oxygen Evolution Reaction. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	3
557	Electrophilicity in heterogeneous catalysis: role of surface and sub-surface modification. <i>Catalysis Science and Technology</i> , <b>2021</b> , 11, 4315-4326	5.5	5
556	Earth-abundant 3d-transition-metal catalysts for lignocellulosic biomass conversion. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 6042-6093	58.5	27
555	Cytosine Palladium Complex Supported on Ordered Mesoporous Silica as Highly Efficient and Reusable Nanocatalyst for One-Pot Oxidative Esterification of Aldehydes. <i>Catalysts</i> , <b>2021</b> , 11, 1482	4	
554	Reactive High-Valent Iron Intermediates in Enhancing Treatment of Water by Ferrate.. <i>Environmental Science &amp; Technology</i> , <b>2021</b> ,	10.3	6
553	Mechanochemical Preparation of N,S-Doped Graphene Oxide Using (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> for Supercapacitor Applications. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 18810-18815	8.3	8
552	Synthesis of Mesoporous ZnMAIO Substituted by Co and Ni Ions and Application in the Photodegradation of Rhodamine B. <i>Materials</i> , <b>2020</b> , 13,	3.5	10
551	Benign-by-design N-doped carbonaceous materials obtained from the hydrothermal carbonization of sewage sludge for supercapacitor applications. <i>Green Chemistry</i> , <b>2020</b> , 22, 3885-3895	10	39
550	Reductive catalytic routes towards sustainable production of hydrogen, fuels and chemicals from biomass derived polyols. <i>Renewable and Sustainable Energy Reviews</i> , <b>2020</b> , 127, 109852	16.2	36
549	Proteins-Based Nanocatalysts for Energy Conversion Reactions. <i>Topics in Current Chemistry</i> , <b>2020</b> , 378, 43	7.2	3
548	Benign-by-design nature-inspired bionanoconjugates for energy conversion and storage applications. <i>Current Opinion in Green and Sustainable Chemistry</i> , <b>2020</b> , 26, 100373	7.9	1



547	Turning Spent Coffee Grounds into Sustainable Precursors for the Fabrication of Carbon Dots. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	14
546	Facile synthesis of B/g-C <sub>3</sub> N <sub>4</sub> composite materials for the continuous-flow selective photo-production of acetone. <i>Green Chemistry</i> , <b>2020</b> , 22, 4975-4984	10	13
545	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
544	Efficient esterification of eugenol using a microwave-activated waste kaolin. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , <b>2020</b> , 130, 633-653	1.6	5
543	Acetylation of Eugenol on Functionalized Mesoporous Aluminosilicates Synthesized from Amazonian Flint Kaolin. <i>Catalysts</i> , <b>2020</b> , 10, 478	4	6
542	Nanomaterials and catalysis for green chemistry. <i>Current Opinion in Green and Sustainable Chemistry</i> , <b>2020</b> , 24, 48-55	7.9	25
541	Thermal and light irradiation effects on the electrocatalytic performance of hemoglobin modified CoO-g-CN nanomaterials for the oxygen evolution reaction. <i>Nanoscale</i> , <b>2020</b> , 12, 8477-8484	7.7	8
540	Synthesis and Characterization of Novel Pyridine Periodic Mesoporous Organosilicas and Its Catalytic Activity in the Knoevenagel Condensation Reaction. <i>Materials</i> , <b>2020</b> , 13,	3.5	11
539	Efficient and selective aqueous photocatalytic mono-dehydration of sugar alcohols using functionalized yttrium oxide nanocatalysts. <i>Green Chemistry</i> , <b>2020</b> , 22, 5333-5344	10	1
538	Electroanalytical methods and their hyphenated techniques for novel ion battery anode research. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 2618-2656	35.4	13
537	Hydrothermal carbonization of activated sewage sludge over ammonia-treated Fenton sludge to produce hydrochar for clean fuel use. <i>Green Chemistry</i> , <b>2020</b> , 22, 5077-5083	10	11
536	Microwave-Assisted Oxidation of Hydroxymethyl Furfural to Added-Value Compounds over a Ruthenium-Based Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 3091-3102	8.3	26
535	Insights into the Photodecomposition of Azidomethyl Methyl Sulfide: A S/S Conical Intersection on Nitrene Potential Energy Surfaces Leading to the Formation of -Methyl--sulfenylmethanimine. <i>Journal of Physical Chemistry A</i> , <b>2020</b> , 124, 1911-1921	2.8	5
534	Visible Light CO <sub>2</sub> Reduction to CH <sub>4</sub> Using Hierarchical Yolk@shell TiO <sub>2</sub> /Hx Modified with Plasmonic Au/Pd Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 3689-3696	8.3	29
533	Magnetically separable Fe-MIL-88B-NH carbonaceous nanocomposites for efficient removal of sulfamethoxazole from aqueous solutions. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 570, 163-172	9.3	15
532	Scrap waste automotive converters as efficient catalysts for the continuous-flow hydrogenations of biomass derived chemicals. <i>Green Chemistry</i> , <b>2020</b> , 22, 1414-1423	10	9
531	Lignocellulosics to biofuels: An overview of recent and relevant advances. <i>Current Opinion in Green and Sustainable Chemistry</i> , <b>2020</b> , 24, 21-25	7.9	13
530	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

529	Eggshell-templated synthesis of PbS/CaCO <sub>3</sub> nanocomposites for CO <sub>2</sub> -mediated efficient degradation of tetracycline under solar light irradiation. <i>Molecular Catalysis</i> , <b>2020</b> , 484, 110786	3.3	10
528	NIR-triggered photocatalytic/photothermal/photodynamic water remediation using eggshell-derived CaCO <sub>3</sub> /CuS nanocomposites. <i>Chemical Engineering Journal</i> , <b>2020</b> , 388, 124304	14.7	38
527	Insights into the Selective Oxidation of 5-Hydroxymethylfurfural to 5-Hydroxymethyl-2-furancarboxylic Acid Using Silver Oxide. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 8486-8495	8.3	23
526	Aza-Henry and aza-Knoevenagel reactions of nitriles for the synthesis of pyrido[1,2-a]indoles. <i>Chemical Communications</i> , <b>2020</b> , 56, 6527-6530	5.8	7
525	Photoactive CeO <sub>2</sub> /SBA-15 functionalized materials as efficient systems for mono-dehydration of sugar alcohols. <i>Molecular Catalysis</i> , <b>2020</b> , 487, 110844	3.3	1
524	Tuneable Acidity in Fluorinated Al-SBA-15 Materials for the Esterification of Valeric Acid to Alkyl Valerates. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 42	5	3
523	Recycling electronic waste: Prospects in green catalysts design. <i>Current Opinion in Green and Sustainable Chemistry</i> , <b>2020</b> , 25, 100357	7.9	3
522	Carbon dots as photocatalysts for organic synthesis: metal-free methylene-oxygen-bond photocleavage. <i>Green Chemistry</i> , <b>2020</b> , 22, 1145-1149	10	16
521	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
520	Uniphase ruthenium/iridium alloy-based electronic regulation for electronic structure/function study in methane oxidation to methanol. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 24024-24030	13	4
519	Production of 5-hydroxymethyl-2-furan carboxylic acid by <i>Serratia marcescens</i> from crude 5-hydroxymethylfurfural. <i>Biochemical Engineering Journal</i> , <b>2020</b> , 154, 107421	4.2	11
518	Kolbe Electrolysis of Biomass-Derived Fatty Acids Over Pt Nanocrystals in an Electrochemical Cell. <i>ChemCatChem</i> , <b>2020</b> , 12, 642-648	5.2	5
517	Ternary Hydrotalcites in the Multicomponent Synthesis of 4H-Pyrans. <i>Catalysts</i> , <b>2020</b> , 10, 70	4	6
516	Preparation of novel mesoporous Ca/P MCM-41-based materials for mechanochemical diphenyl sulfide oxidation. <i>Microporous and Mesoporous Materials</i> , <b>2020</b> , 297, 110017	5.3	7
515	Continuous flow synthesis of menthol via tandem cyclisation/hydrogenation of citronellal catalysed by scrap catalytic converters. <i>Green Chemistry</i> , <b>2020</b> , 22, 379-387	10	16
514	Characterization and Antioxidant Activity of Microwave-Extracted Phenolic Compounds from Biomass Residues. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 1513-1519	8.3	14
513	Heterogeneous (de)chlorination-enabled control of reactivity in the liquid-phase synthesis of furanic biofuel from cellulosic feedstock. <i>Green Chemistry</i> , <b>2020</b> , 22, 637-645	10	13
512	Enhanced visible-light-driven photocatalytic degradation of emerging water contaminants by a modified zinc oxide-based photocatalyst; In-vivo and in-vitro toxicity evaluation of wastewater and PCO-treated water. <i>Separation and Purification Technology</i> , <b>2020</b> , 243, 116430	8.3	9



511	Electrochemical valorization of carboxylates in aqueous solution for the production of biofuels, fine chemicals, and hydrogen. <i>Green Chemistry</i> , <b>2020</b> , 22, 525-531	10	7
510	[3+2] Anionic Cycloaddition of Isocyanides to Acyclic Enamines and Enaminones: A New, Simple, and Convenient Method for the Synthesis of 2,4-Disubstituted Pyrroles. <i>European Journal of Organic Chemistry</i> , <b>2020</b> , 2020, 1108-1113	3.2	12
509	Microwave-Assisted Lignin Solubilization in Protic Ionic Compounds Containing 2,3,4,5-Tetraphenyl-1H-imidazolium and Inorganic Anions. <i>Waste and Biomass Valorization</i> , <b>2020</b> , 11, 6585-6593	3.2	3
508	Calcified Shrimp Waste Supported Pd NPs as an Efficient Catalyst toward Benzene Destruction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 486-497	8.3	13
507	Improving Electrochemical Hydrogen Evolution of Ag@CN Nanocomposites by Synergistic Effects with Rich Proteins. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 2207-2215	9.5	14
506	Immobilization of (tartrate-salen)Mn(III) polymer complexes into SBA-15 for catalytic asymmetric epoxidation of alkenes. <i>Molecular Catalysis</i> , <b>2020</b> , 495, 111146	3.3	3
505	Nitrogen- and Sulfur-Doped Carbon Obtained from Direct Hydrothermal Carbonization of Cellulose and Ammonium Sulfate for Supercapacitor Applications. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 15809-15814	8.3	13
504	Hydrothermal carbonization of sewage sludge: effect of inorganic salts on hydrochar's physicochemical properties. <i>Green Chemistry</i> , <b>2020</b> , 22, 7010-7022	10	17
503	Core-shell iron oxide@catechol-polymer@palladium/copper nanocomposites as efficient and sustainable catalysts in cross-coupling reactions. <i>Molecular Catalysis</i> , <b>2020</b> , 493, 111042	3.3	1
502	Evaluation of acid properties of mechanochemically synthesized supported niobium oxide catalysts in the alkylation of toluene. <i>Molecular Catalysis</i> , <b>2020</b> , 493, 111092	3.3	2
501	Photocatalytic Production of Vanillin over CeOx and ZrO2 Modified Biomass-Templated Titania. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 17085-17093	3.9	6
500	Highly ordered mesoporous functionalized pyridinium protic ionic liquids framework as efficient system in esterification reactions for biofuels production. <i>Molecular Catalysis</i> , <b>2020</b> , 498, 111238	3.3	5
499	Aqueous Room Temperature Mono-Dehydration of Sugar Alcohols Using Functionalized Yttrium Oxide Nanocatalysts. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 532	5	1
498	Etherification of 5-hydroxymethylfurfural using a heteropolyacid supported on a silica matrix. <i>Molecular Catalysis</i> , <b>2020</b> , 494, 111125	3.3	5
497	Tungstate ion (WO4 <sup>2-</sup> ) confined in hydrophilic/hydrophobic nanomaterials functionalized brüsted acidic ionic liquid as highly active catalyst in the selective aerobic oxidation of alcohols in water. <i>Molecular Catalysis</i> , <b>2020</b> , 497, 111202	3.3	3
496	Novel Microwave-Synthesized Biomass-Derived Furanics as Effective Sustainable Antifouling Agents. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 16391-16396	8.3	0
495	Spent tea leaves templated synthesis of highly active and durable cobalt-based trifunctional versatile electrocatalysts for hydrogen and oxygen evolution and oxygen reduction reactions. <i>Green Chemistry</i> , <b>2020</b> , 22, 6967-6980	10	22
494	Low-cost and sustainable (nano)catalysts derived from bone waste: catalytic applications and biofuels production. <i>Biofuels, Bioproducts and Biorefining</i> , <b>2020</b> , 14, 1197-1227	5.3	8

493	Solventless Amide Synthesis Catalyzed by Biogenic CaCO <sub>3</sub> Materials. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 13139-13146	8.3	4
492	Microwave-assisted catalytic upgrading of bio-based furfuryl alcohol to alkyl levulinate over commercial non-metal activated carbon. <i>Molecular Catalysis</i> , <b>2020</b> , 480, 110630	3.3	17
491	Sustainable and recyclable heterogenous palladium catalysts from rice husk-derived biosilicates for Suzuki-Miyaura cross-couplings, aerobic oxidations and stereoselective cascade carbocyclizations. <i>Scientific Reports</i> , <b>2020</b> , 10, 6407	4.9	5
490	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
489	Functionalized CeO <sub>2</sub> /SBA-15 Materials as Efficient Catalysts for Aqueous Room Temperature Mono-dehydration of Sugar Alcohols. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 6371-6380	8.3	5
488	Simplifying levulinic acid conversion towards a sustainable biomass valorisation. <i>Green Chemistry</i> , <b>2020</b> , 22, 2929-2934	10	4
487	State-of-the-Art of Eggshell Waste in Materials Science: Recent Advances in Catalysis, Pharmaceutical Applications, and Mechanochemistry. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 612567	5.8	10
486	Waste-to-wealth: biowaste valorization into valuable bio(nano)materials. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 4791-4822	58.5	152
485	Zeolite-Based Catalysts: A Valuable Approach toward Ester Bond Formation. <i>Catalysts</i> , <b>2019</b> , 9, 758	4	23
484	Spent Coffee Grounds-Templated Magnetic Nanocatalysts for Mild Oxidations. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 17030-17038	8.3	10
483	Acetylation of Eugenol over 12-Molybdophosphoric Acid Anchored in Mesoporous Silicate Support Synthesized from Kaolin. <i>Materials</i> , <b>2019</b> , 12,	3.5	10
482	Mechanochemical extraction of antioxidant phenolic compounds from Mediterranean and medicinal <i>Laurus nobilis</i> : A comparative study with other traditional and green novel techniques. <i>Industrial Crops and Products</i> , <b>2019</b> , 141, 111805	5.9	20
481	Mimicking the bioelectrocatalytic function of recombinant CotA laccase through electrostatically self-assembled bioconjugates. <i>Nanoscale</i> , <b>2019</b> , 11, 1549-1554	7.7	7
480	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
479	Impact of shaping Aquivion PFSA on its catalytic performances. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 1231-1237	5.5	3
478	Continuous flow synthesis of amines from the cascade reactions of nitriles and carbonyl-containing compounds promoted by Pt-modified titania catalysts. <i>Green Chemistry</i> , <b>2019</b> , 21, 300-306	10	14
477	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
476	Nanostructured materials for photocatalysis. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 3868-3902	58.5	479

475	Mechanistic insights into the microwave-assisted cinnamyl alcohol oxidation using supported iron and palladium catalysts. <i>Molecular Catalysis</i> , <b>2019</b> , 474, 110409	3.3	8
474	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
473	Preparation of mesoporous stannosilicates SnTUD-1 and catalytic activity in levulinic acid esterification. <i>Microporous and Mesoporous Materials</i> , <b>2019</b> , 287, 159-166	5.3	16
472	Bentonites Modified with Phosphomolybdic Heteropolyacid (HPMo) for Biowaste to Biofuel Production. <i>Materials</i> , <b>2019</b> , 12,	3.5	31
471	Post-synthetic Mechanochemical Incorporation of Al-Species into the Framework of Porous Materials: Toward More Sustainable Redox Chemistries. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 9537-9543	8.3	10
470	Industrial Food Waste Valorization: A General Overview <b>2019</b> , 253-277		12
469	Ecotoxicological assessment and electrochemical remediation of doxorubicin. <i>Ecotoxicology and Environmental Safety</i> , <b>2019</b> , 179, 143-150	7	11
468	Valorization of Humins-Extracted 5-Methoxymethylfurfural: Toward High Added Value Furanics via Continuous Flow Catalytic Hydrogenation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 16065-16070	3.9	10
467	Valorization of Mining Waste in the Synthesis of Organofunctionalized Aluminosilicates for the Esterification of Waste from Palm Oil Deodorization. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 7543-7551	8.3	11
466	Boosting the electrochemical oxygen reduction activity of hemoglobin on fructose@graphene-oxide nanoplatfoms. <i>Chemical Communications</i> , <b>2019</b> , 55, 4671-4674	5.8	14
465	Efficient Liquid-Assisted Grinding Selective Aqueous Oxidation of Sulfides Using Supported Heteropolyacid Catalysts. <i>ChemCatChem</i> , <b>2019</b> , 11, 2537-2545	5.2	5
464	Sewage Sludge-Derived Materials as Efficient Catalysts for the Selective Production of Vanillin from Isoeugenol. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 7519-7526	8.3	14
463	Mechanochemically Synthesized Supported Magnetic Fe-Nanoparticles as Catalysts for Efficient Vanillin Production. <i>Catalysts</i> , <b>2019</b> , 9, 290	4	7
462	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
461	Applications of Dimethyl Carbonate for the Chemical Upgrading of Biosourced Platform Chemicals. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 6471-6479	8.3	50
460	Citrate-Stabilized Gold Nanoparticles as High-Performance Electrocatalysts: The Role of Size in the Electroreduction of Oxygen. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 9807-9812	3.8	28
459	Sustainable Production of Carbon Nanoparticles from Olive Pit Biomass: Understanding Proton Transfer in the Excited State on Carbon Dots. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 10493-10500	8.3	16
458	PtCu@ highly excavated octahedral nanostructures built with nanodendrites for superior alcohol electrooxidation. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 8568-8572	13	19

457	Continuous Flow Synthesis of High Valuable N-Heterocycles via Catalytic Conversion of Levulinic Acid. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 103	5	15
456	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
455	Stability and Activity of Zn/MCM-41 Materials in Toluene Alkylation: Microwave Irradiation vs Continuous Flow. <i>Catalysts</i> , <b>2019</b> , 9, 136	4	3
454	Thermo-Photocatalysis: Environmental and Energy Applications. <i>ChemSusChem</i> , <b>2019</b> , 12, 2098-2116	8.3	69
453	Functional metal-organic frameworks for catalytic applications. <i>Coordination Chemistry Reviews</i> , <b>2019</b> , 388, 268-292	23.2	151
452	Nanoparticles within functional frameworks and their applications in photo(electro)catalysis <b>2019</b> , 109-138		3
451	Direct C-S bond formation via C-O bond activation of phenols in a crossover Pd/Cu dual-metal catalysis system. <i>Organic and Biomolecular Chemistry</i> , <b>2019</b> , 17, 4491-4497	3.9	15
450	Versatile Sulfathiazole-Functionalized Magnetic Nanoparticles as Catalyst in Oxidation and Alkylation Reactions. <i>Catalysts</i> , <b>2019</b> , 9, 348	4	8
449	Highly Excavated Octahedral Nanostructures Integrated from Ultrathin Mesoporous PtCu Nanosheets: Construction of Three-Dimensional Open Surfaces for Enhanced Electrocatalysis. <i>Small</i> , <b>2019</b> , 15, e1804407	11	15
448	Versatile Protein-Templated TiO <sub>2</sub> Nanocomposite for Energy Storage and Catalytic Applications. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 5329-5337	8.3	18
447	Heterogeneously Catalyzed Synthesis of Imidazolones via Cycloisomerizations of Propargylic Ureas Using Ag and Au/Al SBA-15 Systems. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 5568-5575	8.3	16
446	Continuous-Flow Hydrogenation of Methyl Levulinate Promoted by Zr-Based Mesoporous Materials. <i>Catalysts</i> , <b>2019</b> , 9, 142	4	16
445	Engineered bi-functional hydrophilic/hydrophobic yolk@shell architectures: A rational strategy for non-time dependent ultra selective photocatalytic oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 240, 72-78	21.8	22
444	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
443	Mechanochemical synthesis of three double perovskites: CsAgBiBr, (CHNH)TlBiBr and CsAgSbBr. <i>Nanoscale</i> , <b>2019</b> , 11, 16650-16657	7.7	35
442	g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> composite catalysts for the photo-oxidation of toluene: Chemical and charge handling effects. <i>Chemical Engineering Journal</i> , <b>2019</b> , 378, 122228	14.7	27
441	Mechanochemical Synthesis of CuO/MgAlO and MgFeO Spinel for Vanillin Production from Isoeugenol and Vanillyl Alcohol. <i>Molecules</i> , <b>2019</b> , 24,	4.8	15
440	Tailoring the ORR and HER electrocatalytic performances of gold nanoparticles through metal-ligand interfaces. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 20425-20434	13	29

439	Enhanced visible light photocatalytic degradation of acetaminophen with Ag <sub>2</sub> S-ZnO@rGO core-shell microsphere as a novel catalyst: Catalyst preparation and characterization and mechanistic catalytic experiments. <i>Separation and Purification Technology</i> , <b>2019</b> , 229, 115803	8.3	19
438	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
437	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
436	Advances in mechanochemical processes for biomass valorization. <i>BMC Chemical Engineering</i> , <b>2019</b> , 1,	3.5	10
435	Sonochemically-Promoted Preparation of Silica-Anchored Cyclodextrin Derivatives for Efficient Copper Catalysis. <i>Molecules</i> , <b>2019</b> , 24,	4.8	8
434	Efficient Ru-based scrap waste automotive converter catalysts for the continuous-flow selective hydrogenation of cinnamaldehyde. <i>Green Chemistry</i> , <b>2019</b> , 21, 4712-4722	10	12
433	Technology and Process Design for Phenols Recovery from Industrial Chicory () Leftovers. <i>Molecules</i> , <b>2019</b> , 24,	4.8	5
432	Solvent-Free Preparation of 1,8-Dioxo-Octahydroxanthenes Employing Iron Oxide Nanomaterials. <i>Materials</i> , <b>2019</b> , 12,	3.5	11
431	Effect of Bay Leaves Essential Oil Concentration on the Properties of Biodegradable Carboxymethyl Cellulose-Based Edible Films. <i>Materials</i> , <b>2019</b> , 12,	3.5	14
430	Fe-Containing MOFs as Seeds for the Preparation of Highly Active Fe/Al-SBA-15 Catalysts in the NAlkylation of Aniline. <i>Molecules</i> , <b>2019</b> , 24,	4.8	3
429	Editors' ChoiceStability of Unstable Perovskites: Recent Strategies for Making Stable Perovskite Solar Cells. <i>ECS Journal of Solid State Science and Technology</i> , <b>2019</b> , 8, Q111-Q117	2	9
428	Mesoporous Hierarchically Hollow Flower-Like CoAl-LDH@N,S-doped Graphene@Pd Nanoarchitectures for Heck Couplings. <i>Catalysis Letters</i> , <b>2019</b> , 149, 2984-2993	2.8	9
427	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
426	Ultrastable CoxSiyOz Nanowires by Glancing Angle Deposition with Magnetron Sputtering as Novel Electrocatalyst for Water Oxidation. <i>ChemCatChem</i> , <b>2019</b> , 11, 6111-6115	5.2	8
425	CoreShell [emailprotected] Nanothorns on Carbon Fiber Paper Electrodes for Carboxylic Acid Valorization via Kolbe Electrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 18061-18066	8.3	6
424	Reconstruction of humins formation mechanism from decomposition products: A GC-MS study based on catalytic continuous flow depolymerizations. <i>Molecular Catalysis</i> , <b>2019</b> , 479, 110564	3.3	11
423	Continuous flow transfer hydrogenation of biomass derived methyl levulinate over Zr containing zeolites: Insights into the role of the catalyst acidity. <i>Molecular Catalysis</i> , <b>2019</b> , 477, 110522	3.3	9
422	The Dark Side of Biomass Valorization: A Laboratory Experiment To Understand Humin Formation, Catalysis, and Green Chemistry. <i>Journal of Chemical Education</i> , <b>2019</b> , 96, 3030-3037	2.4	7



421 Nanocatalysis for Green Chemistry **2019**, 83-109

420 Chapter 1: Introduction to Nanocatalysts. *RSC Catalysis Series*, **2019**, 1-36

0.3 3

419 Waste-derived Materials: Opportunities in Photocatalysis. *Topics in Current Chemistry*, **2019**, 378, 3

7.2 12

418 Recent Advances in the Catalytic Production of Platform Chemicals from Holocellulosic Biomass. *ChemCatChem*, **2019**, 11, 2022-2042

5.2 44

417 Controllable Design of Polypyrrole-Iron Oxide Nanocoral Architectures for Supercapacitors with Ultrahigh Cycling Stability. *ACS Applied Energy Materials*, **2019**, 2, 2161-2168

6.1 12

416 Modulating the oxophilic properties of inorganic nanomaterials for electrocatalysis of small carbonaceous molecules. *Nano Today*, **2019**, 29, 100802

17.9 13

415 One-Pot Cu/TiO Nanoparticles Synthesis for Trans-Ferulic Acid Conversion into Vanillin. *Molecules*, **2019**, 24,

4.8 6

414 International Perspectives on Green and Sustainable Chemistry Education via Systems Thinking. *Journal of Chemical Education*, **2019**, 96, 2794-2804

2.4 14

413 Polysaccharide-based superporous hydrogel embedded with copper nanoparticles: a green and versatile catalyst for the synthesis of 1,2,3-triazoles. *Catalysis Science and Technology*, **2019**, 9, 136-145

5.5 21

412 Benign-by-design advanced nanomaterials for environmental and energy-related applications. *Current Opinion in Green and Sustainable Chemistry*, **2019**, 15, 98-102

7.9 5

411 Unprecedented Wiring Efficiency of Sulfonated Graphitic Carbon Nitride Materials: Toward High-Performance Amperometric Recombinant CotA Laccase Biosensors. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 1474-1484

8.3 15

410 Development of Sulfonic-Acid-Functionalized Mesoporous Materials: Synthesis and Catalytic Applications. *Chemistry - A European Journal*, **2019**, 25, 1614-1635

4.8 117

409 NH<sub>4</sub>F Modified Al-SBA-15 Materials for Esterification of Valeric Acid to Alkyl Valerates. *Proceedings (mdpi)*, **2019**, 3, 4

0.3

408 Mechanochemical Preparation of Novel Polysaccharide-Supported Nb<sub>2</sub>O<sub>5</sub> Catalysts. *Catalysts*, **2019**, 9, 38

4 4

407 Mesoporous SBA-15/PIDA as a Dendrimer Zwitterionic Amino Acid-Type Organocatalyst for Three-Component Indazolophthalazine Synthesis. *Catalysis Letters*, **2019**, 149, 591-600

2.8 17

406 Sustainable Protocol for the Reduction of Nitroarenes by Heterogeneous Au@SBA-15 with NaBH under Flow Conditions. *ChemSusChem*, **2019**, 12, 3178-3184

8.3 17

405 Multifunctional magnetic Fe<sub>3</sub>O<sub>4</sub>/nitrogen-doped porous carbon nanocomposites for removal of dyes and sensing applications. *Applied Surface Science*, **2019**, 467-468, 89-97

6.7 30

404 Selective heavy metal removal and water purification by microfluidically-generated chitosan microspheres: Characteristics, modeling and application. *Journal of Hazardous Materials*, **2019**, 364, 192-205

12.8 67



403	A Sustainable Approach for the Synthesis of Catalytically Active Peroxidase-Mimic ZnS Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 1300-1307	8.3	14
402	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
401	Aqueous synthesis of 1,8-dioxo-octahydroxanthenes using supported cobalt nanoparticles as a highly efficient and recyclable nanocatalyst. <i>Catalysis Communications</i> , <b>2019</b> , 120, 95-100	3.2	15
400	Environmental Catalysis: Present and Future. <i>ChemCatChem</i> , <b>2019</b> , 11, 18-38	5.2	61
399	Mechanochemically modified aluminosilicates for efficient oxidation of vanillyl alcohol. <i>Catalysis Communications</i> , <b>2019</b> , 118, 65-69	3.2	17
398	Non-porous carbonaceous materials derived from coffee waste grounds as highly sustainable anodes for lithium-ion batteries. <i>Journal of Cleaner Production</i> , <b>2019</b> , 207, 411-417	10.3	50
397	Facile mechanochemical modification of g-C3N4 for selective photo-oxidation of benzyl alcohol. <i>Chemical Engineering Science</i> , <b>2019</b> , 194, 78-84	4.4	37
396	Microalgae cultivation and metabolites production: a comprehensive review. <i>Biofuels, Bioproducts and Biorefining</i> , <b>2018</b> , 12, 304-324	5.3	44
395	Encapsulation of metal nanostructures into metal-organic frameworks. <i>Dalton Transactions</i> , <b>2018</b> , 47, 3663-3668	4.3	33
394	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
393	Electrochemical characterization of a novel nimesulide anti-inflammatory drug analog: LQFM-091. <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 818, 92-96	4.1	1
392	Continuous Flow Alcoholysis of Furfuryl Alcohol to Alkyl Levulinates Using Zeolites. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 6901-6909	8.3	39
391	Hierarchical concave layered triangular PtCu alloy nanostructures: rational integration of dendritic nanostructures for efficient formic acid electrooxidation. <i>Nanoscale</i> , <b>2018</b> , 10, 9369-9375	7.7	22
390	Sunlight-Driven Hydrogen Production Using an Annular Flow Photoreactor and g-C3N4-Based Catalysts. <i>ChemPhotoChem</i> , <b>2018</b> , 2, 870-877	3.3	14
389	Highly efficient direct oxygen electro-reduction by partially unfolded laccases immobilized on waste-derived magnetically separable nanoparticles. <i>Nanoscale</i> , <b>2018</b> , 10, 3961-3968	7.7	28
388	Understanding Microwave-Assisted Lignin Solubilization in Protic Ionic Liquids with Multiaromatic Imidazolium Cations. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 4122-4129	8.3	20
387	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
386	Catalytic Versatility of Novel Sulfonamide Functionalized Magnetic Composites. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 4586-4593	8.3	9

385	Self-catalyzed surface grafting of Mn <sub>3</sub> O <sub>4</sub> nanoparticles with polylactide and its magnetic properties. <i>Journal of Polymer Research</i> , <b>2018</b> , 25, 1	2.7	3
384	Ordered macro-microporous metal-organic framework single crystals. <i>Science</i> , <b>2018</b> , 359, 206-210	33.3	570
383	Functionalized Ionic Liquid-based Catalytic Systems with Diversified Performance Enhancements <b>2018</b> , 35-58		
382	Heterogeneous Room Temperature Catalysis [Nanomaterials <b>2018</b> , 59-88		1
381	Mechanochemically Enhanced Organic Transformations <b>2018</b> , 155-182		
380	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
379	Introduction to Room-Temperature Catalysis <b>2018</b> , 1-34		
378	Alternative Perovskites for Photovoltaics. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703120	21.8	52
377	Designer hydrogenated wrinkled yolk@shell TiO <sub>2</sub> architectures towards advanced visible light photocatalysts for selective alcohol oxidation. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 8962-8968	13	23
376	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
375	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
374	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
373	3D Porous Carbonaceous Electrodes for Electrocatalytic Applications. <i>Joule</i> , <b>2018</b> , 2, 76-93	27.8	72
372	A chitosan modified Pt/SiO <sub>2</sub> catalyst for the synthesis of 3-poly(ethylene glycol) propyl ether-heptamethyltrisiloxane applied as agricultural synergistic agent. <i>Catalysis Communications</i> , <b>2018</b> , 104, 118-122	3.2	13
371	Microwave assisted benzyl alcohol oxidation using iron particles on furfuryl alcohol derived supports. <i>Catalysis Communications</i> , <b>2018</b> , 104, 67-70	3.2	8
370	Development of a Polyphenol Oxidase Biosensor from Jenipapo Fruit Extract ( <i>Genipa americana</i> L.) and Determination of Phenolic Compounds in Textile Industrial Effluents. <i>Biosensors</i> , <b>2018</b> , 8,	5.9	12
369	Unprecedented Proline-Based Heterogeneous Organocatalyst for Selective Production of Vanillin. <i>Catalysts</i> , <b>2018</b> , 8, 167	4	10
368	Autocatalysis Synthesis of Poly(benzoxazine-co-resol)-Based Polymer and Carbon Spheres. <i>Macromolecules</i> , <b>2018</b> , 51, 5494-5500	5.5	21

367	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
366	Facile surfactant-free synthesis of polybenzoxazine-based polymer and nitrogen-doped carbon nanospheres. <i>Polymer Chemistry</i> , <b>2018</b> , 9, 4324-4331	4.9	24
365	Black hollow TiO <sub>2</sub> nanocubes: Advanced nanoarchitectures for efficient visible light photocatalytic applications. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 238, 177-183	21.8	49
364	Novel (NH <sub>4</sub> ) <sub>4</sub> [NiMo <sub>6</sub> O <sub>24</sub> H <sub>6</sub> ]·5H <sub>2</sub> O/TiO <sub>2</sub> composite system: Photo-oxidation of toluene under UV and sunlight-type illumination. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 238, 381-392	21.8	12
363	Biomass Promises: A Bumpy Road to a Renewable Economy. <i>Current Green Chemistry</i> , <b>2018</b> , 5, 47-59	1.3	13
362	Integrated Mechanochemical/Microwave-Assisted Approach for the Synthesis of Biogenic Silica-Based Catalysts from Rice Husk Waste. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 11555-11562	8.2	13
361	Efficient Mechanochemical Bifunctional Nanocatalysts for the Conversion of Isoeugenol to Vanillin. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 77	5	19
360	Ultrasound-Assisted Esterification of Valeric Acid to Alkyl Valerates Promoted by Biosilicified Lipases. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 197	5	11
359	Microwave-assisted valorization of pig bristles: towards visible light photocatalytic chalcocite composites. <i>Green Chemistry</i> , <b>2018</b> , 20, 3001-3007	10	14
358	A comprehensive study on the continuous flow synthesis of supported iron oxide nanoparticles on porous silicates and their catalytic applications. <i>Reaction Chemistry and Engineering</i> , <b>2018</b> , 3, 757-768	4.9	6
357	Novel Applications of Microbial Fuel Cells in Sensors and Biosensors. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 1184	2.6	51
356	Case Study 1: Magnetic Pd Catalysts for Benzyl Alcohol Oxidation to Benzaldehyde <b>2018</b> , 237-250		
355	Stress-Transfer-Induced In Situ Formation of Ultrathin Nickel Phosphide Nanosheets for Efficient Hydrogen Evolution. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 13266-13269	3.6	17
354	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
353	TiO <sub>2</sub> @C Nanostructured Electrodes for the Anodic Removal of Cocaine. <i>Electroanalysis</i> , <b>2018</b> , 30, 2094-2098	2	2
352	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
351	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
350	Cytosine Palladium Hybrid Complex Immobilized on SBA-15 as Efficient Heterogeneous Catalyst for the Aqueous Suzuki-Miyaura Coupling. <i>ChemistrySelect</i> , <b>2018</b> , 3, 6102-6106	1.8	5

349	Metal-Free Reduction of Nitrobenzene to Aniline in Subcritical Water. <i>Journal of Organic Chemistry</i> , <b>2018</b> , 83, 7431-7437	4.2	10
348	Batch versus Continuous Flow Performance of Supported Mono- and Bimetallic Nickel Catalysts for Catalytic Transfer Hydrogenation of Furfural in Isopropanol. <i>ChemCatChem</i> , <b>2018</b> , 10, 3459-3468	5.2	32
347	Comparative Study of Supported Monometallic Catalysts in the Liquid-Phase Hydrogenation of Furfural: Batch Versus Continuous Flow. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 9831-9844	8.3	40
346	Electrochemical remediation of amoxicillin: detoxification and reduction of antimicrobial activity. <i>Chemico-Biological Interactions</i> , <b>2018</b> , 291, 162-170	5	2
345	Hydrotalcites in Organic Synthesis: Multicomponent Reactions. <i>Current Organic Synthesis</i> , <b>2018</b> , 15, 1073-1090	3	3
344	Mechanochemical synthesis of supported cobalt oxide nanoparticles on mesoporous materials as versatile bifunctional catalysts. <i>Microporous and Mesoporous Materials</i> , <b>2018</b> , 272, 129-136	5.3	28
343	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
342	Advances in Nanocatalyst Design for Biofuel Production. <i>ChemCatChem</i> , <b>2018</b> , 10, 1968-1981	5.2	40
341	Synthesis of carbon-based fluorescent polymers driven by catalytically active magnetic bioconjugates. <i>Green Chemistry</i> , <b>2018</b> , 20, 225-229	10	25
340	Continuous-Flow Synthesis of Supported Magnetic Iron Oxide Nanoparticles for Efficient Isoeugenol Conversion into Vanillin. <i>ChemSusChem</i> , <b>2018</b> , 11, 389-396	8.3	24
339	Zeolite catalyzed palmitic acid esterification. <i>Microporous and Mesoporous Materials</i> , <b>2018</b> , 262, 133-139	5.3	44
338	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
337	Microwave-assisted preparation of Ag/Ag <sub>2</sub> S carbon hybrid structures from pig bristles as efficient HER catalysts. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 21516-21523	13	34
336	Facile synthesis of monodisperse bulk boron- and nitrogen-doped carbon nano/microspheres. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 23780-23786	13	8
335	<b>2018</b> ,		3
334	Benign-by-Design Orange Peel-Templated Nanocatalysts for Continuous Flow Conversion of Levulinic Acid to N-Heterocycles. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 16637-16644	8.3	25
333	Sustainability Analysis of Microalgae Production Systems: A Review on Resource with Unexploited High-Value Reserves. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 14031-14049	10.3	40
332	Copper Tridentate Schiff Base Complex Supported on SBA-15 as Efficient Nanocatalyst for Three-Component Reactions under Solventless Conditions. <i>Materials</i> , <b>2018</b> , 11,	3.5	10

331	Novel Bifunctional Mesoporous Catalysts Based on Preyssler Heteropolyacids for Green Pyrrole Derivative Synthesis. <i>Catalysts</i> , <b>2018</b> , 8, 419	4	7
330	Nanostructured TiO <sub>2</sub> /Carbon Paste Based Sensor for Determination of Methyldopa. <i>Pharmaceuticals</i> , <b>2018</b> , 11,	5.2	8
329	Remediation of Nodularin-R via Electrochemical Removal Using Nanostructured PdO-TiO <sub>2</sub> @Carbon Anodes. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 17376-17381	8.3	0
328	Simple synthesis of nitrogen-doped porous carbon from Chinese steamed bread flour and its catalytic application for hydrogen evolution reaction. <i>Electrochimica Acta</i> , <b>2018</b> , 290, 30-37	6.7	11
327	Sol-Gel Immobilisation of Lipases: Towards Active and Stable Biocatalysts for the Esterification of Valeric Acid. <i>Molecules</i> , <b>2018</b> , 23,	4.8	14
326	Highly Active Catalytic Ruthenium/TiO Nanomaterials for Continuous Production of $\epsilon$ -Valerolactone. <i>ChemSusChem</i> , <b>2018</b> , 11, 2604-2611	8.3	17
325	Efficient combined sorption/photobleaching of dyes promoted by cellulose/titania-based nanocomposite films. <i>Journal of Cleaner Production</i> , <b>2018</b> , 194, 167-173	10.3	29
324	Mechanochemical synthesis of one-dimensional (1D) hybrid perovskites incorporating polycyclic aromatic spacers: highly fluorescent cation-based materials. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 7677-7682	7.1	10
323	Encapsulated Laccases as Effective Electrocatalysts for Oxygen Reduction Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 11058-11062	8.3	16
322	Macroporous materials: microfluidic fabrication, functionalization and applications. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 855-914	58.5	99
321	Application of Wet Nanostructured Bacterial Cellulose as a Novel Hydrogel Bioanode for Microbial Fuel Cells. <i>ChemElectroChem</i> , <b>2017</b> , 4, 648-654	4.3	41
320	Covalently Bonded PIDA on SBA-15 as Robust Pd Support: Water-Tolerant Designed Catalysts for Aqueous Suzuki Couplings. <i>ChemistrySelect</i> , <b>2017</b> , 2, 329-334	1.8	27
319	Mechanochemically synthesized Ag-based nanohybrids with unprecedented low toxicity in biomedical applications. <i>Environmental Research</i> , <b>2017</b> , 154, 204-211	7.9	12
318	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
317	Efficient electrochemical remediation of microcystin-LR in tap water using designer TiO <sub>2</sub> @carbon electrodes. <i>Scientific Reports</i> , <b>2017</b> , 7, 41326	4.9	14
316	Super-microporous silica-supported platinum catalyst for highly regioselective hydrosilylation. <i>Catalysis Communications</i> , <b>2017</b> , 97, 51-55	3.2	13
315	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
314	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

313	Solventless mechanochemical preparation of novel magnetic bioconjugates. <i>Chemical Communications</i> , <b>2017</b> , 53, 7635-7637	5.8	20
312	Controllable design of tunable nanostructures inside metal-organic frameworks. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 4614-4630	58.5	380
311	Nanostructured Porous Materials: Synthesis and Catalytic Applications <b>2017</b> , 119-144		
310	Study on the pyrolysis products of two different hardwood lignins in the presence of NiO contained-zeolites. <i>Biomass and Bioenergy</i> , <b>2017</b> , 103, 29-34	5.3	15
309	Towards the photophysical studies of humin by-products. <i>Chemical Communications</i> , <b>2017</b> , 53, 7015-7017	5.8	11
308	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
307	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
306	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
305	Controlled Growth of Monodisperse Ferrite Octahedral Nanocrystals for Biomass-Derived Catalytic Applications. <i>ACS Catalysis</i> , <b>2017</b> , 7, 2948-2955	13.1	32
304	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
303	Efficient and Environmentally Friendly Microwave-Assisted Synthesis of Catalytically Active Magnetic Metallic Ni Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 11584-11587	8.3	21
302	Selective Oxidation of Isoeugenol to Vanillin over Mechanochemically Synthesized Aluminosilicate Supported Transition Metal Catalysts. <i>ChemistrySelect</i> , <b>2017</b> , 2, 9546-9551	1.8	11
301	Ultrasound-promoted organocatalytic enamine-azide [3 + 2] cycloaddition reactions for the synthesis of ((arylselanyl)phenyl-1-1,2,3-triazol-4-yl)ketones. <i>Beilstein Journal of Organic Chemistry</i> , <b>2017</b> , 13, 694-702	2.5	14
300	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
299	Benign-by-design preparation of humin-based iron oxide catalytic nanocomposites. <i>Green Chemistry</i> , <b>2017</b> , 19, 4423-4434	10	46
298	Et <sub>2</sub> NH-Mediated 1,3-Dipolar Cycloaddition: Synthesis of 1-(2-(Organylselanyl)pyridin-3-yl)-1H-1,2,3-triazole-4-carboxylate Derivatives. <i>ChemistrySelect</i> , <b>2017</b> , 2, 6645-6649	1.8	4
297	Mechanochemical design of hemoglobin-functionalised magnetic nanomaterials for energy storage devices. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 16404-16411	13	15
296	Cytosine-functionalized SBA-15 mesoporous nanomaterials: Synthesis, characterization and catalytic applications. <i>Microporous and Mesoporous Materials</i> , <b>2017</b> , 253, 64-70	5.3	25



295	Photocatalytic, photoelectrochemical, and antibacterial activity of benign-by-design mechanochemically synthesized metal oxide nanomaterials. <i>Catalysis Today</i> , <b>2017</b> , 284, 3-10	5.3	20
294	Advances on Waste Valorization: New Horizons for a More Sustainable Society <b>2017</b> , 23-66		1
293	Wheat bran valorisation: Towards photocatalytic nanomaterials for benzyl alcohol photo-oxidation. <i>Journal of Environmental Management</i> , <b>2017</b> , 203, 768-773	7.9	8
292	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
291	Mechanochemical synthesis of graphene oxide-supported transition metal catalysts for the oxidation of isoeugenol to vanillin. <i>Beilstein Journal of Organic Chemistry</i> , <b>2017</b> , 13, 1439-1445	2.5	18
290	New bio-nanocomposites based on iron oxides and polysaccharides applied to oxidation and alkylation reactions. <i>Beilstein Journal of Organic Chemistry</i> , <b>2017</b> , 13, 1982-1993	2.5	11
289	BPPO-Based Anion Exchange Membranes for Acid Recovery via Diffusion Dialysis. <i>Materials</i> , <b>2017</b> , 10,	3.5	21
288	Highly ordered Nanomaterial Functionalized Copper Schiff Base Framework: Synthesis, Characterization, and Hydrogen Peroxide Decomposition Performance. <i>Catalysts</i> , <b>2017</b> , 7, 216	4	5
287	Naturally nano: synthesis of versatile bio-inspired monodisperse microspheres from Bacillus spores and their applications. <i>Green Chemistry</i> , <b>2016</b> , 18, 186-196	10	19
286	Liquid phase oxidation chemistry in continuous-flow microreactors. <i>Chemical Society Reviews</i> , <b>2016</b> , 45, 83-117	58.5	344
285	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
284	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
283	Advances on Waste Valorization: New Horizons for a More Sustainable Society <b>2016</b> , 37-77		
282	Tunable microwave-assisted aqueous conversion of seaweed-derived agarose for the selective production of 5-hydroxymethyl furfural/levulinic acid. <i>Green Chemistry</i> , <b>2016</b> , 18, 5971-5977	10	32
281	Green Applied Solutions: Customized Waste Valorization Solutions for a Sustainable Future <b>2016</b> , 283-294		
280	Benign-by-design catalysts and processes for biomass conversion. <i>Current Opinion in Green and Sustainable Chemistry</i> , <b>2016</b> , 2, 6-9	7.9	8
279	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
278	Trends in Food and Agricultural Waste Valorization <b>2016</b> , 1-10		1

277	Silver-Nanoparticle-Catalyzed Dearomatization of Indoles toward 3-Spiroindolenines via a 5-exo-dig Spirocyclization. <i>ACS Catalysis</i> , <b>2016</b> , 6, 8156-8161	13.1	41
276	Benign-by-Design Solventless Mechanochemical Synthesis of Three-, Two-, and One-Dimensional Hybrid Perovskites. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 15196-15201	3.6	17
275	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
274	Insights into the Microwave-Assisted Mild Deconstruction of Lignin Feedstocks Using NiO-Containing ZSM-5 Zeolites. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 4305-4313	8.3	19
273	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
272	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
271	Controllable Encapsulation of Clean Metal Clusters within MOFs through Kinetic Modulation: Towards Advanced Heterogeneous Nanocatalysts. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 5103-5107	3.6	38
270	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
269	Concave and duck web-like platinum nanopentagons with enhanced electrocatalytic properties for formic acid oxidation. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 807-812	13	20
268	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
267	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
266	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
265	Electroconductive Composites from Polystyrene Block Copolymers and Cu-Alumina Filler. <i>Materials</i> , <b>2016</b> , 9,	3.5	2
264	Efficient Enzyme-Free Biomimetic Sensors for Natural Phenol Detection. <i>Molecules</i> , <b>2016</b> , 21,	4.8	5
263	Design of Anion Exchange Membranes and Electrodialysis Studies for Water Desalination. <i>Materials</i> , <b>2016</b> , 9,	3.5	22
262	Solvent-Free Esterification of Carboxylic Acids Using Supported Iron Oxide Nanoparticles as an Efficient and Recoverable Catalyst. <i>Materials</i> , <b>2016</b> , 9,	3.5	18
261	Mechanochemical Synthesis of TiO <sub>2</sub> Nanocomposites as Photocatalysts for Benzyl Alcohol Photo-Oxidation. <i>Nanomaterials</i> , <b>2016</b> , 6,	5.4	37
260	Encapsulated Laccases for the Room-Temperature Oxidation of Aromatics: Towards Synthetic Low-Molecular-Weight Lignins. <i>ChemSusChem</i> , <b>2016</b> , 9, 756-62	8.3	13

259	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
258	Insights into the activity, selectivity and stability of heterogeneous catalysts in the continuous flow hydroconversion of furfural. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 4705-4711	5.5	37
257	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
256	Zeolite and zeotype-catalysed transformations of biofuranic compounds. <i>Green Chemistry</i> , <b>2016</b> , 18, 5701-5735	10	113
255	Food Supply Chain Waste: Emerging Opportunities <b>2016</b> , 667-680		1
254	Control of plugging in bifunctional periodic mesoporous organosilica with imidazolium framework (BFPMO) via stepwise addition of silica precursors. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 6575-6585	13	19
253	Microwave-assisted hydroarylation of styrenes catalysed by transition metal oxide nanoparticles supported on mesoporous aluminosilicates. <i>Journal of Molecular Catalysis A</i> , <b>2015</b> , 407, 32-37		8
252	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
251	CHAPTER 3: Porous Carbonaceous Materials in Catalytic Applications. <i>RSC Green Chemistry</i> , <b>2015</b> , 82-102	0.9	2
250	Integrated enzymatic catalysis for biomass deconstruction: a partnership for a sustainable future. <i>Sustainable Chemical Processes</i> , <b>2015</b> , 3,		9
249	Biomass-Derived Porous Carbon Materials: Synthesis and Catalytic Applications. <i>ChemCatChem</i> , <b>2015</b> , 7, 1608-1629	5.2	173
248	Solvothermal synthesis of metal nanocrystals and their applications. <i>Nano Today</i> , <b>2015</b> , 10, 240-267	17.9	149
247	Supported gold nanoparticles as efficient and reusable heterogeneous catalyst for cycloisomerization reactions. <i>Green Chemistry</i> , <b>2015</b> , 17, 3314-3318	10	35
246	Bioinspired Porous ZnO Nanomaterials from Fungal Polysaccharides: Advanced Materials with Unprecedented Low Toxicity in Vitro for Human Cells. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 2716-2725	8.3	13
245	Microfluidic synthesis of high-performance monodispersed chitosan microparticles for methyl orange adsorption. <i>RSC Advances</i> , <b>2015</b> , 5, 78352-78360	3.7	20
244	Graphene oxide-catalysed oxidation reaction of unsaturated compounds under microwave irradiation. <i>Catalysis Communications</i> , <b>2015</b> , 72, 133-137	3.2	12
243	Oxidative esterification of alcohols and aldehydes using supported iron oxide nanoparticle catalysts. <i>Catalysis Communications</i> , <b>2015</b> , 59, 101-103	3.2	19
242	Novel nanoparticle/enzyme biosilicified nanohybrids for advanced heterogeneously catalyzed protocols. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 1840-1846	5.5	11

241	Waste to wealth: a sustainable aquaponic system based on residual nitrogen photoconversion. <i>RSC Advances</i> , <b>2015</b> , 5, 3917-3921	3.7	11
240	A comprehensive study on the effect of preparation methods for Au-core@shell silica materials in room temperature oxidative amide formation. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 789-796	13	4
239	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
238	Supported cobalt oxide nanoparticles as efficient catalyst in esterification and amidation reactions. <i>Catalysis Communications</i> , <b>2015</b> , 59, 122-126	3.2	18
237	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
236	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
235	Mechanistic insights into the hydroconversion of cinnamaldehyde using mechanochemically-synthesized Pd/Al-SBA-15 catalysts. <i>Green Chemistry</i> , <b>2015</b> , 17, 565-572	10	18
234	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
233	Mechanochemical preparation of advanced catalytically active bifunctional Pd-containing nanomaterials for aqueous phase hydrogenation. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 2085-2091	5.5	10
232	Innovative combined dry fractionation technologies for rice straw valorization to biofuels. <i>Green Chemistry</i> , <b>2015</b> , 17, 926-936	10	35
231	Applications of Microwave Chemistry in Various Catalyzed Organic Reactions <b>2015</b> , 171-192		
230	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
229	Leaching-Free Supported Gold Nanoparticles Catalyzing Cycloisomerizations under Microflow Conditions. <i>Advanced Synthesis and Catalysis</i> , <b>2015</b> , 357, 3141-3147	5.6	20
228	Surfactant-Exfoliated Highly Dispersive Pd-Supported Graphene Oxide Nanocomposite as a Catalyst for Aerobic Aqueous Oxidations of Alcohols. <i>ChemCatChem</i> , <b>2015</b> , 7, 1678-1683	5.2	47
227	Catalytic Biomass Processing: Prospects in Future Biorefineries. <i>Current Green Chemistry</i> , <b>2015</b> , 2, 90-95	1.3	15
226	Microwave-Assisted Conversion of Levulinic Acid to $\gamma$ -Valerolactone Using Low-Loaded Supported Iron Oxide Nanoparticles on Porous Silicates. <i>Applied Sciences (Switzerland)</i> , <b>2015</b> , 5, 532-543	2.6	23
225	An Efficient and Recyclable Nanoparticle-Supported Cobalt Catalyst for Quinoxaline Synthesis. <i>Molecules</i> , <b>2015</b> , 20, 20709-18	4.8	7
224	Removal of Congo Red from Aqueous Solution by Anion Exchange Membrane (EBTAC): Adsorption Kinetics and Thermodynamics. <i>Materials</i> , <b>2015</b> , 8, 4147-4161	3.5	39

223	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
222	Hierarchical zeolites and their catalytic performance in selective oxidative processes. <i>ChemSusChem</i> , <b>2015</b> , 8, 1328-33	8.3	18
221	An Efficient Synthesis of Coumarin Derivatives Using a SBA-15 Supported Cobalt(II) Nanocatalyst. <i>Catalysis Letters</i> , <b>2015</b> , 145, 1621-1625	2.8	18
220	An Efficient and Green Synthesis of Benzimidazole Derivatives Using SBA-15 Supported Cobalt Nanocatalysts. <i>Catalysis Letters</i> , <b>2015</b> , 145, 1566-1570	2.8	22
219	Continuous-Flow Hydroisomerization of C <sub>5</sub> -C <sub>7</sub> Alkanes Using Mechanochemically Synthesized Supported Pt and Pd/SBA-15 Materials. <i>Journal of Flow Chemistry</i> , <b>2015</b> , 5, 11-16	3.3	4
218	The role of mesoporosity and Si/Al ratio in the catalytic etherification of glycerol with benzyl alcohol using ZSM-5 zeolites. <i>Journal of Molecular Catalysis A</i> , <b>2015</b> , 406, 40-45		17
217	Selectivity matters: Graphene oxide-mediated oxidative coupling of benzylamine to N-benzylidene-1-phenylmethanamine under microwave irradiation. <i>Journal of Molecular Catalysis A</i> , <b>2015</b> , 406, 19-22		10
216	Room-Temperature Organocatalytic Cycloaddition of Azides with $\alpha$ -Keto Sulfoxes: Toward Sulfonyl-1,2,3-triazoles. <i>Organic Letters</i> , <b>2015</b> , 17, 6206-9	6.2	55
215	Catalysis at room temperature: perspectives for future green chemical processes. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , <b>2015</b> , 4, 316-338	4.7	8
214	Continuous Flow Preparation of Iron Oxide Nanoparticles Supported on Porous Silicates. <i>ChemCatChem</i> , <b>2015</b> , 7, 276-282	5.2	4
213	A Platinum Highly Concave Cube with one Leg on each Vertex as an Advanced Nanocatalyst for Electrocatalytic Applications. <i>ChemCatChem</i> , <b>2015</b> , 7, 1064-1069	5.2	22
212	In situ photogalvanic acceleration of optofluidic kinetics: a new paradigm for advanced photocatalytic technologies. <i>RSC Advances</i> , <b>2015</b> , 5, 791-796	3.7	1
211	Mechanochemical synthesis of advanced nanomaterials for catalytic applications. <i>Chemical Communications</i> , <b>2015</b> , 51, 6698-713	5.8	199
210	Sustainable Biomaterials: Current Trends, Challenges and Applications. <i>Molecules</i> , <b>2015</b> , 21, E48	4.8	18
209	Unprecedented photocatalytic activity of carbonized leather skin residues containing chromium oxide phases. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 150-151, 432-437	21.8	9
208	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
207	Mechanochemical synthesis of maghemite/silica nanocomposites: advanced materials for aqueous room-temperature catalysis. <i>ChemSusChem</i> , <b>2014</b> , 7, 1876-80	8.3	23
206	Solventless oxidative coupling of amines to imines by using transition-metal-free metal-organic frameworks. <i>ChemSusChem</i> , <b>2014</b> , 7, 1684-8	8.3	52

205	Solvent-free and catalysts-free chemistry: a benign pathway to sustainability. <i>ChemSusChem</i> , <b>2014</b> , 7, 24-44	8.3	215
204	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
203	Facile preparation of a nanostructured functionalized catalytically active organosalt. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 770-777	13	63
202	Catalytic conversion of starch into valuable furan derivatives using supported metal nanoparticles on mesoporous aluminosilicate materials. <i>Catalysis Science and Technology</i> , <b>2014</b> , 4, 428-434	5.5	23
201	Efficient aromatic C-H bond activation using aluminosilicate-supported metal nanoparticles. <i>Catalysis Communications</i> , <b>2014</b> , 48, 73-77	3.2	12
200	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
199	Catalytic chemical processes for biomass conversion: Prospects for future biorefineries. <i>Pure and Applied Chemistry</i> , <b>2014</b> , 86, 843-857	2.1	6
198	Insights into the Active Species of Nanoparticle-Functionalized Hierarchical Zeolites in Alkylation Reactions. <i>ChemCatChem</i> , <b>2014</b> , 6, 3530-3539	5.2	14
197	An efficient renewable-derived surfactant for aqueous esterification reactions. <i>RSC Advances</i> , <b>2014</b> , 4, 5152	3.7	13
196	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
195	Improving the esterification activity of <i>Pseudomonas fluorescens</i> and <i>Burkholderia cepacia</i> lipases via cross-linked cyclodextrin immobilization. <i>RSC Advances</i> , <b>2014</b> , 4, 45772-45777	3.7	5
194	Mesoporous Zr-SBA-16 catalysts for glycerol valorization processes: towards biorenewable formulations. <i>Catalysis Science and Technology</i> , <b>2014</b> , 4, 2287-2292	5.5	20
193	Selective glycerol transformations to high value-added products catalysed by aluminosilicate-supported iron oxide nanoparticles. <i>Catalysis Science and Technology</i> , <b>2014</b> , 4, 4242-4249	5.5	38
192	Metal-organic framework encapsulated Pd nanoparticles: towards advanced heterogeneous catalysts. <i>Chemical Science</i> , <b>2014</b> , 5, 3708-3714	9.4	190
191	The Rise of Magnetically Recyclable Nanocatalysts. <i>ChemCatChem</i> , <b>2014</b> , 6, 3312-3313	5.2	119
190	Al-SBA-15 catalysed cross-esterification and acetalisation of biomass-derived platform chemicals. <i>Green Chemistry</i> , <b>2014</b> , 16, 4985-4993	10	40
189	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
188	Solventless acetylation of alcohols and phenols catalyzed by supported iron oxide nanoparticles. <i>Catalysis Communications</i> , <b>2014</b> , 45, 129-132	3.2	19



187	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
186	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
185	Lignin depolymerisation strategies: towards valuable chemicals and fuels. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 7485-500	58.5	687
184	MAGBONS: Novel Magnetically Separable Carbonaceous Nanohybrids from Porous Polysaccharides. <i>ChemCatChem</i> , <b>2014</b> , 6, 2847-2853	5.2	6
183	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
182	Microwave-induced low temperature pyrolysis of macroalgae for unprecedented hydrogen-enriched syngas production. <i>RSC Advances</i> , <b>2014</b> , 4, 38144-38151	3.7	17
181	Nanoparticle tracking analysis of gold nanomaterials stabilized by various capping agents. <i>RSC Advances</i> , <b>2014</b> , 4, 17114	3.7	16
180	Photocatalytic activity, surface area and phase modification of mesoporous SiO <sub>2</sub> /TiO <sub>2</sub> prepared by a one-step hydrothermal procedure. <i>Ceramics International</i> , <b>2014</b> , 40, 11525-11532	5.1	51
179	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
178	Green Technologies for the Environment. <i>ACS Symposium Series</i> , <b>2014</b> , 1-6	0.4	
177	Microwave-assisted oxidation of benzyl alcohols using supported cobalt based nanomaterials under mild reaction conditions. <i>Green Processing and Synthesis</i> , <b>2014</b> , 3, 133-139	3.9	3
176	Nanotechnology management for a safer work environment. <i>Pure and Applied Chemistry</i> , <b>2014</b> , 86, 1159-1168		
175	Continuous flow transformations of glycerol to valuable products: an overview. <i>Sustainable Chemical Processes</i> , <b>2014</b> , 2,		78
174	Bio(chemo)technological strategies for biomass conversion into bioethanol and key carboxylic acids. <i>Green Chemistry</i> , <b>2014</b> , 16, 2386	10	52
173	Silica Sulfuric Acid and Related Solid-supported Catalysts as Versatile Materials for Greener Organic Synthesis. <i>Current Organic Synthesis</i> , <b>2014</b> , 11, 526-544	1.9	19
172	A comprehensive study on the activity and deactivation of immobilized Lecitase Ultra in esterifications of food waste streams to monoacylglycerols. <i>ChemSusChem</i> , <b>2013</b> , 6, 872-9	8.3	19
171	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
170	Valorisation of food residues: waste to wealth using green chemical technologies. <i>Sustainable Chemical Processes</i> , <b>2013</b> , 1,		73

169	Activity of amino-functionalised mesoporous solid bases in microwave-assisted condensation reactions. <i>Catalysis Communications</i> , <b>2013</b> , 33, 1-6	3.2	11
168	Unprecedented oxidative properties of mesoporous silica materials: Towards microwave-assisted oxidation of lignin model compounds. <i>Catalysis Communications</i> , <b>2013</b> , 31, 1-4	3.2	27
167	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
166	Microcystin-LR removal from aqueous solutions using a magnetically separable N-doped TiO <sub>2</sub> nanocomposite under visible light irradiation. <i>Chemical Communications</i> , <b>2013</b> , 49, 10118-20	5.8	45
165	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
164	Catalytic applications of a versatile magnetically separable FeMo (Nanocat-FeMo) nanocatalyst. <i>Green Chemistry</i> , <b>2013</b> , 15, 682	10	72
163	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
162	Continuous flow valorization of fatty acid waste using silica-immobilized lipases. <i>Green Chemistry</i> , <b>2013</b> , 15, 518	10	31
161	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
160	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
159	Efficient and recyclable carbon-supported Pd nanocatalysts for the SuzukiMiyaura reaction in aqueous-based media: Microwave vs conventional heating. <i>Applied Catalysis A: General</i> , <b>2013</b> , 468, 59-67 <sup>5.1</sup>		26
158	Versatile low-loaded mechanochemically synthesized supported iron oxide nanoparticles for continuous flow alkylations. <i>RSC Advances</i> , <b>2013</b> , 3, 16292	3.7	16
157	Microwave-Assisted Heterogeneously Catalyzed Processes <b>2013</b> , 811-842		3
156	Aqueous oxidation of alcohols catalysed by recoverable iron oxide nanoparticles supported on aluminosilicates. <i>Green Chemistry</i> , <b>2013</b> , 15, 1232	10	36
155	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
154	Evaluation of biomass-derived stabilising agents for colloidal silver nanoparticles via nanoparticle tracking analysis (NTA). <i>RSC Advances</i> , <b>2013</b> , 3, 7119	3.7	9
153	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
152	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

151	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
150	Natural porous agar materials from macroalgae. <i>Carbohydrate Polymers</i> , <b>2013</b> , 92, 1555-60	10.3	20
149	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
148	The Role of Heterogeneous Catalysis in the Biorefinery of the Future <b>2013</b> , 557-576		5
147	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
146	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
145	Molecular-level understanding of the carbonisation of polysaccharides. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 9351-7	4.8	30
144	Laser-driven heterogeneous catalysis: efficient amide formation catalysed by Au/SiO <sub>2</sub> systems. <i>Green Chemistry</i> , <b>2013</b> , 15, 2043	10	52
143	Current barriers and future challenges <b>2013</b> , 168-181		
142	Simple Preparation of Novel Metal-Containing Mesoporous Starches. <i>Materials</i> , <b>2013</b> , 6, 1891-1902	3.5	8
141	CO <sub>2</sub> Separation and Capture Properties of Porous Carbonaceous Materials from Leather Residues. <i>Materials</i> , <b>2013</b> , 6, 4641-4653	3.5	22
140	From Waste to Healing Biopolymers: Biomedical Applications of Bio-Collagenic Materials Extracted from Industrial Leather Residues in Wound Healing. <i>Materials</i> , <b>2013</b> , 6, 1599-1607	3.5	14
139	Introduction to Production of Valuable Compounds from Biomass and Waste Valorization Using Nanomaterials <b>2013</b> , 1-4		
138	Wheat-based biorefining strategy for fermentative production and chemical transformations of succinic acid. <i>Biofuels, Bioproducts and Biorefining</i> , <b>2012</b> , 6, 88-104	5.3	39
137	Microwave-assisted mild-temperature preparation of neodymium-doped titania for the improved photodegradation of water contaminants. <i>Applied Catalysis A: General</i> , <b>2012</b> , 441-442, 47-53	5.1	34
136	Investigations on microalgal oil production from <i>Arthrospira platensis</i> : towards more sustainable biodiesel production. <i>RSC Advances</i> , <b>2012</b> , 2, 11267	3.7	14
135	Microwave-assisted pyrolysis of biomass feedstocks: the way forward?. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 5481-5488	35.4	198
134	Carbonaceous residues from biomass gasification as catalysts for biodiesel production. <i>Journal of Natural Gas Chemistry</i> , <b>2012</b> , 21, 246-250		33

133	Low temperature microwave-assisted vs conventional pyrolysis of various biomass feedstocks. <i>Journal of Natural Gas Chemistry</i> , <b>2012</b> , 21, 270-274		40
132	Catalytic transformations of biomass-derived acids into advanced biofuels. <i>Catalysis Today</i> , <b>2012</b> , 195, 162-168	5.3	96
131	Helical Al- and Ce-MCM-41 materials as novel catalyst for acid and redox processes. <i>Applied Catalysis A: General</i> , <b>2012</b> , 435-436, 1-9	5.1	13
130	Efficient room-temperature O-silylation of alcohols using a SBA-15-supported cobalt(II) nanocatalyst. <i>Chemistry and Biodiversity</i> , <b>2012</b> , 9, 1823-8	2.5	6
129	Valorisation of orange peel residues: waste to biochemicals and nanoporous materials. <i>ChemSusChem</i> , <b>2012</b> , 5, 1694-7	8.3	98
128	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
127	Biofuels as Suitable Replacement for Fossil Fuels <b>2012</b> , 451-478		
126	Insights into the microwave-assisted preparation of supported iron oxide nanoparticles on silica-type mesoporous materials. <i>Green Chemistry</i> , <b>2012</b> , 14, 393-402	10	27
125	Versatile dual hydrogenation/oxidation nanocatalysts for the aqueous transformation of biomass-derived platform molecules. <i>Green Chemistry</i> , <b>2012</b> , 14, 1434	10	44
124	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
123	Facile preparation of controllable size monodisperse anatase titania nanoparticles. <i>Chemical Communications</i> , <b>2012</b> , 48, 1860-2	5.8	41
122	Tailor-made biopolymers from leather waste valorisation. <i>Green Chemistry</i> , <b>2012</b> , 14, 308	10	27
121	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
120	Metallacarboranes and their interactions: theoretical insights and their applicability. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 3445-63	58.5	96
119	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
118	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
117	Maximizing the Accessibility of Active Species in Weakly Acidic Zr-SBA-15 Materials. <i>ChemCatChem</i> , <b>2012</b> , 4, 379-386	5.2	14
116	Green chemistry, biofuels, and biorefinery. <i>Annual Review of Chemical and Biomolecular Engineering</i> , <b>2012</b> , 3, 183-207	8.9	170

115	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
114	Continuous-Flow Processes in Heterogeneously Catalyzed Transformations of Biomass Derivatives into Fuels and Chemicals. <i>Challenges</i> , <b>2012</b> , 3, 114-132	3.4	36
113	Introduction to advanced biodiesel production <b>2012</b> , 1-9		0
112	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
111	Advances on biomass pretreatment using ionic liquids: An overview. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 3913	35.4	343
110	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
109	Co(salen)/SBA-15 catalysed oxidation of a EO-4 phenolic dimer under microwave irradiation. <i>Catalysis Communications</i> , <b>2011</b> , 12, 993-995	3.2	43
108	Starbon <sup>®</sup> acids in alkylation and acetylation reactions: Effect of the Brønsted-Lewis acidity. <i>Catalysis Communications</i> , <b>2011</b> , 12, 1471-1476	3.2	25
107	Heteronuclear (Co-Ca, Co-Ba) 2,3-pyridinedicarboxylate complexes: synthesis, structure and physico-chemical properties. <i>Dalton Transactions</i> , <b>2011</b> , 40, 463-71	4.3	21
106	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
105	Novel organogelators based on amine-derived hexaazatrinaphthylene. <i>Organic and Biomolecular Chemistry</i> , <b>2011</b> , 9, 6524-7	3.9	7
104	Editorial [Hot topic: C-C and C-X Couplings in Organic Synthesis Part 2. C-C Couplings (Guest Editor: Rafael Luque)]. <i>Current Organic Synthesis</i> , <b>2011</b> , 8, 1-1	1.9	2
103	Efficient and straightforward preparation of a building block for Olfiteubrevin G synthesis via chemically diversified oriented synthesis. <i>Tetrahedron Letters</i> , <b>2011</b> , 52, 7004-7007	2	6
102	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
101	Biodiesel-Like Biofuels from Simultaneous Transesterification/Esterification of Waste Oils with a Biomass-Derived Solid Acid Catalyst. <i>ChemCatChem</i> , <b>2011</b> , 3, 594-597	5.2	52
100	Magnetically recoverable nanocatalysts. <i>Chemical Reviews</i> , <b>2011</b> , 111, 3036-75	68.1	1386
99	Incorporation of chemical functionalities in the framework of mesoporous silica. <i>Chemical Communications</i> , <b>2011</b> , 47, 9024-35	5.8	106
98	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

97	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
96	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
95	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
94	Spontaneous orthogonal self-assembly of a synergetic gelator system. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 3847-9	4.8	21
93	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
92	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
91	Al-promoted increase of surface area and adsorption capacity in ordered mesoporous silica materials with a cubic structure. <i>Chemical Communications</i> , <b>2011</b> , 47, 12337-9	5.8	5
90	A versatile supported cobalt(II) complex for heterogeneously catalysed processes: conventional vs. microwave irradiation protocols. <i>Catalysis Science and Technology</i> , <b>2011</b> , 1, 1051	5.5	10
89	Production of glycerol-free and alternative biodiesels <b>2011</b> , 160-176		
88	Introduction: an overview of biofuels and production technologies <b>2011</b> , 3-12		2
87	Industrial Applications of C-C Coupling Reactions. <i>Current Organic Synthesis</i> , <b>2010</b> , 7, 614-627	1.9	57
86	Towards Greener and More Efficient C-C and C-Heteroatom Couplings: Present and Future. <i>Current Organic Synthesis</i> , <b>2010</b> , 7, 568-586	1.9	16
85	Biofuels for Transport: Prospects and Challenges <b>2010</b> , 171-210		3
84	Supported cobalt complex-catalysed conjugate addition of indoles, amines and thiols to $\alpha,\beta$ -unsaturated compounds. <i>Green Chemistry</i> , <b>2010</b> , 12, 786	10	29
83	Algal biofuels: the eternal promise?. <i>Energy and Environmental Science</i> , <b>2010</b> , 3, 254	35.4	78
82	Biodiesel as feasible petrol fuel replacement: a multidisciplinary overview. <i>Energy and Environmental Science</i> , <b>2010</b> , 3, 1706	35.4	198
81	Catalytically active self-assembled silica-based nanostructures containing supported nanoparticles. <i>Green Chemistry</i> , <b>2010</b> , 12, 1995	10	37
80	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



79	Fe/Al synergy in Fe(2)O(3) nanoparticles supported on porous aluminosilicate materials: excelling activities in oxidation reactions. <i>Chemical Communications</i> , <b>2010</b> , 46, 7825-7	5.8	74
78	Water-tolerant Ru-Starbon□ materials for the hydrogenation of organic acids in aqueous ethanol. <i>Catalysis Communications</i> , <b>2010</b> , 11, 928-931	3.2	60
77	Magnetically separable nanoferrite-anchored glutathione: aqueous homocoupling of arylboronic acids under microwave irradiation. <i>Green Chemistry</i> , <b>2010</b> , 12, 1540	10	97
76	Effect of Olive Oil on the Skin <b>2010</b> , 1125-1132		2
75	Introducing catalytic activity in helical nanostructures: microwave assisted oxathioacetalisation catalysed by Al-containing helical mesoporous silicas. <i>Chemical Communications</i> , <b>2010</b> , 46, 5163-5	5.8	16
74	One-step microwave-assisted asymmetric cyclisation/hydrogenation of citronellal to menthols using supported nanoparticles on mesoporous materials. <i>Organic and Biomolecular Chemistry</i> , <b>2010</b> , 8, 2845-9	3.9	24
73	Amino acids from Mytilus galloprovincialis (L.) and Rapana venosa molluscs accelerate skin wounds healing via enhancement of dermal and epidermal neoforation. <i>Protein Journal</i> , <b>2010</b> , 29, 81-92	3.9	27
72	Biomaterials supported CdS nanocrystals. <i>Materials Chemistry and Physics</i> , <b>2010</b> , 124, 52-54	4.4	7
71	Designer Nanomaterials for the Production of Energy and High Value-Added Chemicals <b>2010</b> , 23-64		
70	Phytosterols from Dunaliella tertiolecta and Dunaliella salina: a potentially novel industrial application. <i>Bioresource Technology</i> , <b>2010</b> , 101, 4144-50	11	93
69	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
68	A comprehensive study of reaction parameters in the enzymatic production of novel biofuels integrating glycerol into their composition. <i>Bioresource Technology</i> , <b>2010</b> , 101, 6657-62	11	34
67	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
66	Tunable shapes in supported metal nanoparticles: From nanoflowers to nanocubes. <i>Materials Chemistry and Physics</i> , <b>2009</b> , 117, 408-413	4.4	11
65	Sustainable preparation of supported metal nanoparticles and their applications in catalysis. <i>ChemSusChem</i> , <b>2009</b> , 2, 18-45	8.3	623
64	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
63	Gas-phase Beckmann rearrangement of cyclododecanone oxime on Al,B-MCM-41 mesoporous materials. <i>Journal of Materials Science</i> , <b>2009</b> , 44, 6741-6746	4.3	3
62	Modified SBA-1 materials for the Knoevenagel condensation under microwave irradiation. <i>Microporous and Mesoporous Materials</i> , <b>2009</b> , 118, 87-92	5.3	24

61	Efficient hydrogenation of alkenes using a highly active and reusable immobilised Ru complex on AlPO <sub>4</sub> . <i>Journal of Molecular Catalysis A</i> , <b>2009</b> , 308, 41-45		18
60	Efficient preparation of silver nanoparticles supported on hybrid films and their activity in the oxidation of styrene under microwave irradiation. <i>Applied Catalysis A: General</i> , <b>2009</b> , 363, 122-128	5.1	26
59	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
58	Supported metal nanoparticles on porous materials. Methods and applications. <i>Chemical Society Reviews</i> , <b>2009</b> , 38, 481-94	58.5	981
57	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
56	Selective epoxidation of alkenes using highly active V-SBA-15 materials: microwave vs. conventional heating. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 8603		15
55	Palladium metal nanoparticles on organically modified thin hybrid films. <i>Catalysis Communications</i> , <b>2009</b> , 10, 395-400	3.2	17
54	Microwave-assisted preparation of amides using a stable and reusable mesoporous carbonaceous solid acid. <i>Green Chemistry</i> , <b>2009</b> , 11, 459	10	40
53	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
52	Nanotubular self-assembly of n-dodecylamine-TEOS-water-acetonitrile mixtures. <i>Chemical Communications</i> , <b>2009</b> , 4581-3	5.8	22
51	Microwave-assisted versatile hydrogenation of carbonyl compounds using supported metal nanoparticles. <i>Organic and Biomolecular Chemistry</i> , <b>2009</b> , 7, 4821-4	3.9	23
50	Tuneable porous carbonaceous materials from renewable resources. <i>Chemical Society Reviews</i> , <b>2009</b> , 38, 3401-18	58.5	337
49	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
48	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
47	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
46	Efficient solvent- and metal-free Sonogashira protocol catalysed by 1,4-diazabicyclo(2.2.2) octane (DABCO). <i>Organic and Biomolecular Chemistry</i> , <b>2009</b> , 7, 1627-32	3.9	44
45	Biofuels: a technological perspective. <i>Energy and Environmental Science</i> , <b>2008</b> , 1, 542	35.4	468
44	Catalytic performance of carbonaceous materials in the esterification of succinic acid. <i>Catalysis Communications</i> , <b>2008</b> , 9, 1709-1714	3.2	67

43	Microwave facile preparation of highly active and dispersed SBA-12 supported metal nanoparticles. <i>Green Chemistry</i> , <b>2008</b> , 10, 853	10	75
42	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
41	Microwave-assisted synthesis of oligothiophene semiconductors in aqueous media using silica and chitosan supported Pd catalyts. <i>Green Chemistry</i> , <b>2008</b> , 10, 517	10	53
40	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
39	Preparation of Mesoporous Organically Modified Titanium Materials and their Activity in the Oxidation of Cyclohexene. <i>Catalysis Letters</i> , <b>2008</b> , 126, 179-187	2.8	6
38	Physico-chemical characterisation of lipids from <i>Mytilus galloprovincialis</i> (L.) and <i>Rapana venosa</i> and their healing properties on skin burns. <i>Lipids</i> , <b>2008</b> , 43, 829-41	1.6	34
37	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
36	Efficient microwave oxidation of alcohols using low-loaded supported metallic iron nanoparticles. <i>ChemSusChem</i> , <b>2008</b> , 1, 746-50	8.3	70
35	Microwave oxidation of alkenes and alcohols using highly active and stable mesoporous organotitanium silicates. <i>Journal of Molecular Catalysis A</i> , <b>2008</b> , 293, 17-24		23
34	Controlling selectivity in catalysis: Selective greener oxidation of cyclohexene under microwave conditions. <i>Applied Catalysis A: General</i> , <b>2008</b> , 341, 154-159	5.1	49
33	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
32	Glycerol transformations on polysaccharide derived mesoporous materials. <i>Applied Catalysis B: Environmental</i> , <b>2008</b> , 82, 157-162	21.8	95
31	A microwave approach to the selective synthesis of ε-caprolactam. <i>Green Chemistry</i> , <b>2007</b> , 9, 1109	10	14
30	EPR Spin Probe Investigation into the Synthesis of Mesoporous Silica from the Water/Acetonitrile/n-Dodecylamine System. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 14500-14507	3.8	5
29	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
28	Catalytic performance of Al-MCM-41 materials in the N-alkylation of aniline. <i>Journal of Molecular Catalysis A</i> , <b>2007</b> , 269, 190-196		42
27	Ga-MCM-41 synthesis and catalytic activity in the liquid-phase isomerisation of α-pinene. <i>Microporous and Mesoporous Materials</i> , <b>2007</b> , 103, 333-340	5.3	18
26	Novel mesoporous silicoaluminophosphates as highly active and selective materials in the Beckmann rearrangement of cyclohexanone and cyclododecanone oximes. <i>Journal of Catalysis</i> , <b>2007</b> , 252, 1-10	7.3	23

25	Versatile mesoporous carbonaceous materials for acid catalysis. <i>Chemical Communications</i> , <b>2007</b> , 634-6	5.8	145
24	Tunable mesoporous materials optimised for aqueous phase esterifications. <i>Green Chemistry</i> , <b>2007</b> , 9, 992	10	64
23	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
22	Starbons: New Starch-Derived Mesoporous Carbonaceous Materials with Tunable Properties. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 3866-3870	3.6	62
21	Catechol O-methylation with dimethyl carbonate over different acidBase catalysts. <i>New Journal of Chemistry</i> , <b>2006</b> , 30, 1228-1234	3.6	22
20	Green chemistry and the biorefinery: a partnership for a sustainable future. <i>Green Chemistry</i> , <b>2006</b> , 8, 853	10	261
19	Structural and Catalytic Properties of Amorphous Mesoporous AlPO <sub>4</sub> Materials Prepared in the Presence of 2,4-Pentanedione and 2,5-Hexanedione as Aluminium Chelating Agents. <i>Studies in Surface Science and Catalysis</i> , <b>2006</b> , 162, 315-322	1.8	
18	Influence of the acidBase properties in Si-MCM-41 and B-MCM-41 mesoporous materials on the activity and selectivity of ε-caprolactam synthesis. <i>Applied Catalysis A: General</i> , <b>2006</b> , 299, 224-234	5.1	41
17	Structured mesoporous organosilicas from an acetonitrileWater template system. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 3946		12
16	A novel highly active biomaterial supported palladium catalyst. <i>Green Chemistry</i> , <b>2005</b> , 7, 552	10	103
15	Cyclohexene conversion and toluene methylation with dimethyl carbonate over Al-MCM-41 catalysts. <i>Studies in Surface Science and Catalysis</i> , <b>2005</b> , 1383-1390	1.8	
14	NH <sub>4</sub> F effect in post-synthesis treatment of Al-MCM-41 mesoporous materials. <i>Microporous and Mesoporous Materials</i> , <b>2005</b> , 84, 11-20	5.3	45
13	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
12	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
11	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
10	Catalytic applications of mesoporous silica-based materials. <i>Catalysis</i> , 253-280	1.6	29
9	Heterogeneous Catalysis Under Flow for the 21st Century Fine Chemical Industry		3
8	Catalysis at Room Temperature: Perspectives for Future Green Chemical Processes 209-231		

7	Rice Husk Valorization into NiO@SiO <sub>2</sub> /Carbon Nanocomposites for Low-Temperature CO Oxidation: Effect of Surface Area and Ni <sup>3+</sup> Cations. <i>ACS Sustainable Chemistry and Engineering</i> ,	8.3	1
6	Boosting the Ni-Catalyzed Hydrodeoxygenation (HDO) of Anisole Using Scrap Catalytic Converters. <i>Advanced Sustainable Systems</i> ,2100394	5.9	0
5	Bio-construction of MgO nanoparticles using Texas sage plant extract for catalytical degradation of methylene blue via photocatalysis. <i>International Journal of Environmental Science and Technology</i> ,1	3.3	1
4	Experimental and Theoretical Advances on Single Atom and Atomic Cluster-Decorated Low-Dimensional Platforms towards Superior Electrocatalysts. <i>Advanced Energy Materials</i> ,2200493	21.8	2
3	Esterification of an Agro-Industrial Waste on Kaolinite-Derived Catalyst Prepared via Microwave Irradiation. <i>Waste and Biomass Valorization</i> ,1	3.2	1
2	Biofuel production from microalgae: challenges and chances. <i>Phytochemistry Reviews</i> ,1	7.7	7
1	Application of polysaccharide-based biopolymers as supports in photocatalytic treatment of water and wastewater: a review. <i>Environmental Chemistry Letters</i> ,	13.3	0