

Rafael Luque Alvarez de Sotomayor

Artículos con órdenes de acceso público - Gobierno de España

No disponibles de conformidad con la orden: 121 | Disponibles de conformidad con la orden: 166

Improving the electrocatalytic performances of eco-friendly Co/Carbon materials for water oxidation (OER) by ultrasound and microwave assisted synthesis

..., ARP Santiago, JJ Giner-Casares, E Rodríguez-Castellón, G Berlier, G Cravotto, K Martinac, R **Luque**

Disponibile en: <https://iris.unito.it/retrieve/handle/2318/1770644/703864/Paper%20pinecones.pdf>

3D-printing design for continuous flow catalysis

D Rodriguez-Padron, A Ahmad, P Romero-Carrillo, R **Luque**, R Esposito

Trends in Chemistry, 2022

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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

PG Kargar, C Len, R **Luque**

Sustainable Chemistry and Pharmacy 27, 100672, 2022

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Efficient and stable titania-based nanocatalytic materials for the reductive amination of furfural

M Ronda-Leal, C Espro, N Lazaro, M Selva, A Perosa, SM Osman, A Pineda, R **Luque**, D Rodríguez-Pradrón

Materials Today Chemistry 24, 100873, 2022

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Novel iron carbide based catalysts for biomass valorisation

C Defilippi, D Rodríguez-Pradrón, R **Luque**, L Winchester, C Giordano

Journal of Cleaner Production 347, 131279, 2022

Disponibile en: <https://www.sciencedirect.com/science/article/pii/S095965262200909X>

Boron nitride nanosheets supported highly homogeneous bimetallic AuPd alloy nanoparticles catalyst for hydrogen production from formic acid

S Shaybanizadeh, AN Chermahini, R **Luque**

Nanotechnology 33 (27), 275601, 2022

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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

F Khosravi, M Gholinejad, JM Sansano, R **Luque**

Molecular Catalysis 522, 112199, 2022

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Computational Mechanism of Methyl Levulinate Conversion to  $\gamma$ -Valerolactone on UiO-66 Metal Organic Frameworks

MA Ortuño, M Rellán-Piñeiro, R **Luque**

ACS Sustainable Chemistry & Engineering 10 (11), 3567-3573, 2022

Disponibile en: <https://pubs.acs.org/doi/pdf/10.1021/acssuschemeng.1c08021>

Understanding flow chemistry for the production of active pharmaceutical ingredients

AS Burange, SM Osman, R **Luque**

Iscience, 103892, 2022

Disponibile en: [https://www.cell.com/iscience/pdf/S2589-0042\(22\)00162-6.pdf](https://www.cell.com/iscience/pdf/S2589-0042(22)00162-6.pdf)

### Glycerol Valorization towards a Benzoxazine Derivative through a Milling and Microwave Sequential Strategy

MÁ Torres-Pastor, C Espro, M Selva, A Perosa, AA Romero Reyes, SM Osman, R **Luque**, D Rodríguez-Padrón

Molecules 27 (3), 632, 2022

Disponible en: <https://www.mdpi.com/1456206>

### Artificial Coal: Facile and Green Production Method via Low-Temperature Hydrothermal Carbonization of Lignocellulose

X Zhixiang, XQ Ma, X Hu, SM Osman, PG Duan, R **Luque**

ACS, 2022

Disponible en: <https://helvia.uco.es/bitstream/handle/10396/23964/acssuschemeng.1c08338.pdf?sequence=1&isAllowed=y>

### Computational Mechanism of Methyl Levulinate Conversion to $\gamma$ -Valerolactone on UiO-66 Metal Organic Frameworks

MÁ Ortuño Maqueda, M Rellán Piñeiro, R **Luque**

ACS Publications, 2022

Disponible en: [https://minerva.usc.es/xmlui/bitstream/handle/10347/29211/1/2022\\_acssuschemeng\\_ortuno\\_computational.pdf](https://minerva.usc.es/xmlui/bitstream/handle/10347/29211/1/2022_acssuschemeng_ortuno_computational.pdf)

### Mechanochemically designed bismuth-based halide perovskites for efficient photocatalytic oxidation of vanillyl alcohol

..., S Ramos-Terrón, G Lasarte-Aragonés, R Lucena, S Cárdenas, D Rodríguez-Padrón, R **Luque**...

Journal of Materials Chemistry A 10 (20), 11298-11305, 2022

Disponible en: [https://www.researchgate.net/profile/Susana-Ramos-Terron/publication/360094325\\_Mechanochemically\\_designed\\_bismuth-based\\_halide\\_perovskites\\_for\\_efficient\\_photocatalytic\\_oxidation\\_of\\_vanillyl\\_alcohol/links/62b2cec689e4f1160c920da9/Mechanochemically-designed-bismuth-based-halide-perovskites-for-efficient-photocatalytic-oxidation-of-vanillyl-alcohol.pdf](https://www.researchgate.net/profile/Susana-Ramos-Terron/publication/360094325_Mechanochemically_designed_bismuth-based_halide_perovskites_for_efficient_photocatalytic_oxidation_of_vanillyl_alcohol/links/62b2cec689e4f1160c920da9/Mechanochemically-designed-bismuth-based-halide-perovskites-for-efficient-photocatalytic-oxidation-of-vanillyl-alcohol.pdf)

### Low-dimensional heterostructures for advanced electrocatalysis: an experimental and computational perspective

MA Ahsan, T He, JC Noveron, K Reuter, AR Puente-Santiago, R **Luque**

Chemical Society Reviews 51 (3), 812-828, 2022

Disponible en: [https://www.researchgate.net/profile/Tianwei-He-2/publication/356419506\\_Low-dimensional\\_heterostructures\\_for\\_advanced\\_electrocatalysis\\_An\\_experimental\\_and\\_computational\\_perspective/links/61e8095ac5e3103375a6ea35/Low-dimensional-heterostructures-for-advanced-electrocatalysis-An-experimental-and-computational-perspective.pdf](https://www.researchgate.net/profile/Tianwei-He-2/publication/356419506_Low-dimensional_heterostructures_for_advanced_electrocatalysis_An_experimental_and_computational_perspective/links/61e8095ac5e3103375a6ea35/Low-dimensional-heterostructures-for-advanced-electrocatalysis-An-experimental-and-computational-perspective.pdf)

### Heterogeneous Catalysis to Drive the Waste-to-Pharma Concept: From Furanics to Active Pharmaceutical Ingredients

R **Luque**, ZA AlOthman, AM Balu, L Voskressensky

Molecules 26 (21), 6738, 2021

Disponible en: <https://www.mdpi.com/1348520>

### Synthesis and characterization of Pd-Ni catalysts supported on KIT-6 and their application in cyclohexane oxidation using molecular oxygen

B Reisi, AN Chermahini, D Rodríguez-Padrón, MJ Munoz-Batista, R **Luque**

Journal of Industrial and Engineering Chemistry 102, 103-111, 2021

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### SBA-Pr-Is-TAP functionalized nanostructured silica as a highly selective fluorescent chemosensor for Fe<sup>3+</sup> and Cr<sub>2</sub>O<sub>7</sub><sup>2-</sup> ions in aqueous media

GM Ziarani, M Akhgar, F Mohajer, A Badii, R **Luque**

Nanomaterials 11 (10), 2533, 2021

Disponible en: <https://www.mdpi.com/2079-4991/11/10/2533/pdf>

### PdO supported on TiO<sub>2</sub> for the oxidative condensation of furfural with ethanol: insights on reactivity and product selectivity

..., V Torres-Bujalance, CP Jimenez-Gomez, C Garcia-Sancho, R Moreno-Tost, P Maireles-Torres, R **Luque**

ACS Sustainable Chemistry & Engineering 9 (30), 10100-10112, 2021

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### Selectivity Control in the Oxidative Ring-Opening of Dimethylfuran Mediated by Zeolitic-Imidazolate Framework-8 Nanoparticles

A Franco, A Negi, R **Luque**, C Carrillo-Carrión

ACS Sustainable Chemistry & Engineering 9 (24), 8090-8096, 2021

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### Exploring the potential of biomass-templated Nb/ZnO nanocatalysts for the sustainable synthesis of N-heterocycles

D Rodríguez-Padrón, D Zhao, C Carrillo-Carrion, C Morales-Torres, AM Elsharif, AM Balu, R **Luque**, C Len

Catalysis Today 368, 243-249, 2021

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### Selective continuous flow phenylacetylene hydrogenation over Pd-biogenic calcium carbonate

S Chaparro, JJ Martinez, HA Rojas, A Pineda, R **Luque**

Catalysis Today 368, 181-186, 2021

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### Exploiting the potential of biosilica from rice husk as porous support for catalytically active iron oxide nanoparticles

A Franco, R **Luque**, C Carrillo-Carrión

Nanomaterials 11 (5), 1259, 2021

Disponible en: <https://www.mdpi.com/2079-4991/11/5/1259/pdf>

### Whey as an alternative nutrient medium for growth of Sporosarcina pasteurii and its effect on CaCO<sub>3</sub> polymorphism and fly ash bioconsolidation

S Chaparro, HA Rojas, G Caicedo, G Romanelli, A Pineda, R **Luque**, JJ Martínez

Materials 14 (10), 2470, 2021

Disponible en: <https://www.mdpi.com/1996-1944/14/10/2470/pdf>

### Mechanochemical Synthesis of Nickel-Modified Metal–Organic Frameworks for Reduction Reactions

P Gómez-López, M Murat, JM Hidalgo-Herrador, C Carrillo-Carrión, AM Balu, R **Luque**, D Rodríguez-Padrón

Catalysts 11 (5), 526, 2021

Disponible en: <https://www.mdpi.com/2073-4344/11/5/526/pdf>

### Mechanochemical Preparation of Magnetically Separable Fe and Cu-Based Bimetallic Nanocatalysts for Vanillin Production

..., C Espro, D Rodríguez-Padrón, AM Balu, F Ivars-Barceló, OI Moreda, CG Alvarado-Beltrán, R **Luque**

Nanomaterials 11 (4), 1050, 2021

Disponible en: <https://www.mdpi.com/2079-4991/11/4/1050/htm>

### Catalytic wet hydrogen peroxide oxidation of isoeugenol to vanillin using microwave-assisted synthesized metal loaded catalysts

P Garcia-Albar, N Lazaro, ZA ALothman, AA Romero, R **Luque**, A Pineda

Molecular Catalysis 506, 111537, 2021

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### Photocatalytic cellulose-paper: deepening in the sustainable and synergic combination of sorption and photodegradation

G Mafra, R Brognoli, E Carasek, Ál López-Lorente, R **Luque**, R Lucena, S Cárdenas

ACS omega 6 (14), 9577-9586, 2021

Disponible en: <https://pubs.acs.org/doi/full/10.1021/acsomega.1c00128>

### Mechanochemical functionalization of mesoporous carbons for the catalytic transformation of trans-ferulic acid into vanillin

N Lazaro, J Castro-Gutierrez, P Ramirez-Vidal, A Celzard, V Fierro, TS AlGarni, A Pineda, R **Luque**

ACS Sustainable Chemistry & Engineering 9 (13), 4704-4710, 2021

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Thiol-functionalized PCN-222 MOF for fast and selective extraction of gold ions from aqueous media

S Nazri, M Khajeh, AR Oveisi, R **Luque**, E Rodriguez-Castellon, M Ghaffari-Moghaddam

Separation and Purification Technology 259, 118197, 2021

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Insulating rigid polyurethane foams from laurel tree pruning based polyol

E Rincon, AM Balu, R **Luque**, L Serrano

Journal of Applied Polymer Science 138 (6), 49789, 2021

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State-of-the-art of eggshell waste in materials science: recent advances in catalysis, pharmaceutical applications, and mechanochemistry

M Baláž, EV Boldyreva, D Rybin, S Pavlović, D Rodríguez-Padrón, T Mudrinić, R **Luque**

Frontiers in Bioengineering and Biotechnology 8, 612567, 2021

Disponible en: <https://www.frontiersin.org/articles/10.3389/fbioe.2020.612567/full>

Mechanochemically synthesized PAN-based Co-N-doped carbon materials as electrocatalyst for oxygen evolution reaction

..., D Rodríguez-Padrón, M Cano, CG Alvarado-Beltrán, AR Puente-Santiago, JJ Giner-Casares, R **Luque**

Nanomaterials 11 (2), 290, 2021

Disponible en: <https://www.mdpi.com/2079-4991/11/2/290/pdf>

Sustainable production of pharmaceutical, nutraceutical and bioactive compounds from biomass and waste

C Espro, E Paone, F Mauriello, R Gotti, E Uliassi, ML Bolognesi, D Rodríguez-Padrón, R **Luque**

Chemical Society Reviews 50 (20), 11191-11207, 2021

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Electrophilicity in heterogeneous catalysis: role of surface and sub-surface modification

AS Burange, A Ahmad, R **Luque**

Catalysis Science & Technology 11 (13), 4315-4326, 2021

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Magnetically recoverable catalysts for the preparation of pyridine derivatives: an overview

GM Ziarani, Z Kheilkordi, F Mohajer, A Badiei, R **Luque**

RSC advances 11 (28), 17456-17477, 2021

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Biomass valorization: Catalytic approaches using benign-by-design nanomaterials

D Rodríguez-Padrón, AM Balu, AA Romero, R **Luque**

Advances in Inorganic Chemistry 77, 27-58, 2021

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Metal doping of porous materials via a post-synthetic mechano-chemical approach: a general route to design low-loaded versatile catalytic systems

MD Marquez-Medina, R **Luque**, AM Balu, F Ivars-Barceló, C Carrillo-Carrión

Catalysis Science & Technology 11 (6), 2103-2109, 2021

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Improving the electrocatalytic performance of sustainable Co/carbon materials for the oxygen evolution reaction by ultrasound and microwave assisted synthesis

..., ARP Santiago, JJ Giner-Casares, E Rodríguez-Castellón, G Berlier, G Cravotto, K Martina, R **Luque**

Sustainable Energy & Fuels 5 (3), 720-731, 2021

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Benign-by-design nature-inspired bionanoconjugates for energy conversion and storage applications

ZALothman, D Rodriguez-Padron, A Puente-Santiago, SM Osman, R **Luque**

Current Opinion in Green and Sustainable Chemistry 26, 100373, 2020

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**Microwave-Assisted Synthesis and Properties of Novel Hexaazatrinaphthylene Dendritic Scaffolds**D García Velázquez, R **Luque**, ÁG Ravelo

Molecules 25 (21), 5038, 2020

Disponible en: <https://www.mdpi.com/874590>**Recycling electronic waste: prospects in green catalysts design**D Rodríguez-Padrón, ZA AlOthman, SM Osman, R **Luque**

Current Opinion in Green and Sustainable Chemistry 25, 100357, 2020

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**Evaluation of acid properties of mechanochemically synthesized supported niobium oxide catalysts in the alkylation of toluene**A Pineda, N Lázaro, AM Balu, A Garcia, AA Romero, R **Luque**

Molecular Catalysis 493, 111092, 2020

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**Core-shell iron oxide@ cathecol-polymer@ palladium/copper nanocomposites as efficient and sustainable catalysts in cross-coupling reactions**S Ostovar, A Rezvani, R **Luque**, C Carrillo-Carrión

Molecular Catalysis 493, 111042, 2020

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**Solventless amide synthesis catalyzed by biogenic CaCO<sub>3</sub> materials**S Chaparro, HA Rojas, JC Castillo, J Portilla, GP Romanelli, A Pineda, AM Elsharif, JJ Martinez, R **Luque**

ACS Sustainable Chemistry &amp; Engineering 8 (35), 13139-13146, 2020

Disponible en: [https://www.researchgate.net/profile/Juan-Castillo-Millan/publication/343705938\\_Solventless\\_Amide\\_Synthesis\\_Catalyzed\\_by\\_Biogenic\\_CaCO\\_3\\_Materials/links/637641a51766b34c5431f9a4/Solventless-Amide-Synthesis-Catalyzed-by-Biogenic-CaCO-3-Materials.pdf](https://www.researchgate.net/profile/Juan-Castillo-Millan/publication/343705938_Solventless_Amide_Synthesis_Catalyzed_by_Biogenic_CaCO_3_Materials/links/637641a51766b34c5431f9a4/Solventless-Amide-Synthesis-Catalyzed-by-Biogenic-CaCO-3-Materials.pdf)**Nanomaterials and catalysis for green chemistry**P Gómez-López, A Puente-Santiago, A Castro-Beltrán, LAS do Nascimento, AM Balu, R **Luque**...

Current Opinion in Green and Sustainable Chemistry 24, 48-55, 2020

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**Photocatalytic Production of Vanillin over CeO<sub>x</sub> and ZrO<sub>2</sub> Modified Biomass-Templated Titania**AI Martín-Perales, D Rodríguez-Padrón, A García Coleto, C Len, G de Miguel, MJ Muñoz-Batista, R **Luque**

Industrial &amp; Engineering Chemistry Research 59 (39), 17085-17093, 2020

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**Combined extraction/purification-catalytic microwave-assisted conversion of Laurus nobilis L. pruning waste polysaccharides into methyl levulinate**E Rincón, A Zuliani, A Jiménez-Quero, F Vilaplana, R **Luque**, L Serrano, AM Balu

ACS Sustainable Chemistry &amp; Engineering 8 (29), 11016-11023, 2020

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**Turning spent coffee grounds into sustainable precursors for the fabrication of carbon dots**DMA Crista, A El Mragui, M Algarra, JCG Esteves da Silva, R **Luque**, L Pinto da Silva

Nanomaterials 10 (6), 1209, 2020

Disponible en: <https://www.mdpi.com/2079-4991/10/6/1209/pdf>**Graphitic carbon nitride-based photocatalysts: toward efficient organic transformation for value-added chemicals production**AAkhundi, A Badieli, GM Ziarani, A Habibi-Yangjeh, MJ Muñoz-Batista, R **Luque**

Molecular Catalysis 488, 110902, 2020

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Sustainable and recyclable heterogenous palladium catalysts from rice husk-derived biosilicates for Suzuki-Miyaura cross-couplings, aerobic oxidations and stereoselective cascade carbocyclizations

S Afewerki, A Franco, AM Balu, CW Tai, R **Luque**, A Córdoba

Scientific Reports 10 (1), 6407, 2020

Disponible en: <https://www.nature.com/articles/s41598-020-63083-8.pdf>

Synthesis and characterization of novel pyridine periodic mesoporous organosilicas and its catalytic activity in the Knoevenagel condensation reaction

F Rajabi, AZ Ebrahimi, A Rabiee, A Pineda, R **Luque**

Materials 13 (5), 1097, 2020

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Tuneable acidity in fluorinated Al-SBA-15 materials for the esterification of valeric acid to alkyl valerates

M Blanco-Sánchez, E Pfab, N Lázaro, AM Balu, R **Luque**, A Pineda

Frontiers in Chemistry 8, 42, 2020

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Characterization and antioxidant activity of microwave-extracted phenolic compounds from biomass residues

D Rodríguez-Padron, D Zhao, RN Garin Ortega, C Len, AM Balu, A García, R **Luque**

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Electroanalytical methods and their hyphenated techniques for novel ion battery anode research

J Zhao, M Cano, JJ Giner-Casares, R **Luque**, G Xu

Energy & Environmental Science 13 (9), 2618-2656, 2020

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Facile synthesis of B/gC 3 N 4 composite materials for the continuous-flow selective photo-production of acetone

U Caudillo-Flores, D Rodríguez-Padrón, MJ Muñoz-Batista, A Kubacka, R **Luque**, M Fernández-García

Green Chemistry 22 (15), 4975-4984, 2020

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Proteins-based nanocatalysts for energy conversion reactions

D Rodríguez-Padron, MA Ahsan, MF Sanad, R **Luque**, AR Puente Santiago

Surface-modified Nanobiomaterials for Electrochemical and Biomedicine ..., 2020

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Recent catalytic routes for the preparation and the upgrading of biomass derived furfural and 5-hydroxymethylfurfural

C Xu, E Paone, D Rodríguez-Padrón, R **Luque**, F Mauriello

Chemical Society Reviews 49 (13), 4273-4306, 2020

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Simplifying levulinic acid conversion towards a sustainable biomass valorisation

C Defilippi, D Rodríguez-Padrón, R **Luque**, C Giordano

Green Chemistry 22 (9), 2929-2934, 2020

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Microvesicles from indoxyl sulfate-treated endothelial cells induce vascular calcification in vitro

M Alique, G Bodega, E Corchete, E García-Menéndez, P de Sequera, R **Luque**, D Rodríguez-Padrón...

Computational and Structural Biotechnology Journal 18, 953-966, 2020

Disponible en: <https://www.sciencedirect.com/science/article/pii/S2001037020300295>

Thermal and light irradiation effects on the electrocatalytic performance of hemoglobin modified Co<sub>3</sub>O<sub>4</sub>-gC<sub>3</sub>N<sub>4</sub> nanomaterials for the oxygen evolution reaction

..., D Rodríguez-Padrón, ZA Alothman, M Cano, JJ Giner-Casares, MJ Muñoz-Batista, SM Osman, R **Luque**

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Scrap waste automotive converters as efficient catalysts for the continuous-flow hydrogenations of biomass derived chemicals

CM Cova, A Zuliani, R Manno, V Sebastian, R **Luque**

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Waste-derived materials: opportunities in photocatalysis

D Rodríguez-Padrón, R **Luque**, MJ Muñoz-Batista

Heterogeneous Photocatalysis: Recent Advances, 1-28, 2020

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Continuous flow synthesis of menthol via tandem cyclisation–hydrogenation of citronellal catalysed by scrap catalytic converters

A Zuliani, CM Cova, R Manno, V Sebastian, AA Romero, R **Luque**

Green Chemistry 22 (2), 379-387, 2020

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Improving electrochemical hydrogen evolution of Ag@ CN nanocomposites by synergistic effects with  $\alpha$ -rich proteins

D Rodriguez-Padron, AR Puente-Santiago, M Cano, A Caballero, MJ Munoz-Batista, R **Luque**

ACS applied materials & interfaces 12 (2), 2207-2215, 2019

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Ultrastable CoxSiyOz nanowires by glancing angle deposition with magnetron sputtering as novel electrocatalyst for water oxidation

M Cano, FJ Garcia-Garcia, D Rodríguez-Padrón, AR González-Elipe, JJ Giner-Casares, R **Luque**

ChemCatChem 11 (24), 6111-6115, 2019

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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

U Caudillo-Flores, MJ Muñoz-Batista, R **Luque**, M Fernández-García, A Kubacka

Chemical Engineering Journal 378, 122228, 2019

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Mechanochemical extraction of antioxidant phenolic compounds from Mediterranean and medicinal Laurus nobilis: A comparative study with other traditional and green novel techniques

E Rincon, AM Balu, R **Luque**, L Serrano

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Advances in mechanochemical processes for biomass valorization

CM Cova, R **Luque**

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One-pot Cu/TiO<sub>2</sub> nanoparticles synthesis for trans-ferulic acid conversion into vanillin

P Gómez-López, N Lázaro, CG Alvarado-Beltrán, A Pineda, AM Balu, R **Luque**

Molecules 24 (21), 3985, 2019

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Continuous flow transfer hydrogenation of biomass derived methyl levulinate over Zr containing zeolites: Insights into the role of the catalyst acidity

M Cabanillas, A Franco, N Lazaro, AM Balu, R **Luque**, A Pineda

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Spent coffee grounds-templated magnetic nanocatalysts for mild oxidations

D Rodriguez-Padron, MJ Munoz-Batista, H Li, K Shih, AM Balu, A Pineda, R **Luque**

ACS Sustainable Chemistry & Engineering 7 (20), 17030-17038, 2019

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Mechanistic insights into the microwave-assisted cinnamyl alcohol oxidation using supported iron and palladium catalysts

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Continuous flow selective hydrogenation of 5-hydroxymethylfurfural to 2, 5-dimethylfuran using highly active and stable Cu-Pd/reduced graphene oxide

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Mechanochemical preparation of novel polysaccharide-supported Nb<sub>2</sub>O<sub>5</sub> catalysts

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Waste-to-wealth: Biowaste valorization into valuable bio (nano) materials

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Mechanochemical synthesis of three double perovskites: Cs<sub>2</sub>AgBiBr<sub>6</sub>, (CH<sub>3</sub>NH<sub>3</sub>)<sub>2</sub>TiBiBr<sub>6</sub> and Cs<sub>2</sub>AgSbBr<sub>6</sub>

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### Boosting the electrochemical oxygen reduction activity of hemoglobin on fructose@ graphene-oxide nanoplateforms

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### Highly active catalytic Ru/TiO<sub>2</sub> nanomaterials for continuous production of $\gamma$ -valerolactone

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### Continuous flow synthesis of amines from the cascade reactions of nitriles and carbonyl-containing compounds promoted by Pt-modified titania catalysts

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### 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

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**Alternative perovskites for photovoltaics**AD Jodlowski, D Rodríguez-Padrón, R **Luque**, G de Miguel

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**Continuous flow conversion of biomass-derived methyl levulinate into  $\gamma$ -valerolactone using functional metal organic frameworks**W Ouyang, D Zhao, Y Wang, AM Balu, C Len, R **Luque**

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Microwave-assisted preparation of Ag/Ag<sub>2</sub>S carbon hybrid structures from pig bristles as efficient HER electrocatalysts

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