

David P Serrano

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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|--------------------|--------------------------|----------------|-----------------|
| 225 papers | 10,669 citations | 60 h-index | 90 g-index |
| 237 ext. papers | 11,899 ext. citations | 7.4 avg, IF | 6.44 L-index |

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 225 | The role of the surface acidic/basic centers and redox sites on TiO ₂ in the photocatalytic CO ₂ reduction. <i>Applied Catalysis B: Environmental</i> , 2022 , 303, 120931 | 21.8 | 3 |
| 224 | Apex scavengers from different European populations converge at threatened savannah landscapes.. <i>Scientific Reports</i> , 2022 , 12, 2500 | 4.9 | 1 |
| 223 | Enhanced production of aromatic hydrocarbons and phenols by catalytic co-pyrolysis of fruit and garden pruning wastes. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107738 | 6.8 | 0 |
| 222 | zsm-5 ZEOLITES PERFORMANCE ASSESSMENT IN CATALYTIC PYROLYSIS OF pvc-containing REAL WEEE PLASTIC wastes. <i>Catalysis Today</i> , 2021 , | 5.3 | 1 |
| 221 | Deactivation and regeneration of solid acid and base catalyst bodies used in cascade for bio-oil synthesis and upgrading. <i>Journal of Catalysis</i> , 2021 , 405, 641-641 | 7.3 | 0 |
| 220 | Evaluating fractional pyrolysis for bio-oil speciation into holocellulose and lignin derived compounds. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021 , 154, 105019 | 6 | 3 |
| 219 | Effect of Mesoporosity, Acidity and Crystal Size of Zeolite ZSM-5 on Catalytic Performance during the Ex-situ Catalytic Fast Pyrolysis of Biomass. <i>ChemCatChem</i> , 2021 , 13, 1207-1219 | 5.2 | 6 |
| 218 | Tracking the evolution of embryonic zeolites into hierarchical ZSM-5. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 13570-13587 | 13 | 3 |
| 217 | Upscaling Effects on Alkali Metal-Grafted Ultrastable Y Zeolite Extrudates for Modeled Catalytic Deoxygenation of Bio-oils. <i>ChemCatChem</i> , 2021 , 13, 1951-1965 | 5.2 | 3 |
| 216 | Exploring the alternative MnO-Na ₂ CO ₃ thermochemical cycle for water splitting. <i>Journal of CO₂ Utilization</i> , 2020 , 42, 101264 | 7.6 | 5 |
| 215 | Shifting Pathways in the Phenol/2-Propanol Conversion over the Tandem Raney Ni + ZSM-5 Catalytic System. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 3375-3382 | 3.9 | 3 |
| 214 | Hydrotreating of Methyl Esters to Produce Green Diesel over Co- and Ni-Containing Zr-SBA-15 Catalysts. <i>Catalysts</i> , 2020 , 10, 186 | 4 | 6 |
| 213 | Rewilding processes shape the use of Mediterranean landscapes by an avian top scavenger. <i>Scientific Reports</i> , 2020 , 10, 2853 | 4.9 | 9 |
| 212 | Guaiacol hydrodeoxygenation over Ni ₂ P supported on 2D-zeolites. <i>Catalysis Today</i> , 2020 , 345, 48-58 | 5.3 | 23 |
| 211 | Advances and challenges in zeolite synthesis and catalysis. <i>Catalysis Today</i> , 2020 , 345, 2-13 | 5.3 | 26 |
| 210 | Cascade Deoxygenation Process Integrating Acid and Base Catalysts for the Efficient Production of Second-Generation Biofuels. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 18027-18037 | 8.3 | 8 |
| 209 | The crucial role of clay binders in the performance of ZSM-5 based materials for biomass catalytic pyrolysis. <i>Catalysis Science and Technology</i> , 2019 , 9, 789-802 | 5.5 | 23 |

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|-----|---|------|-----|
| 208 | Selective hydrodecarboxylation of fatty acids into long-chain hydrocarbons catalyzed by Pd/Al-SBA-15. <i>Microporous and Mesoporous Materials</i> , 2019 , 280, 88-96 | 5.3 | 17 |
| 207 | Enhanced bio-oil upgrading in biomass catalytic pyrolysis using KH-ZSM-5 zeolite with acid-base properties. <i>Biomass Conversion and Biorefinery</i> , 2019 , 1 | 2.3 | 8 |
| 206 | Scaling-Up of Bio-Oil Upgrading during Biomass Pyrolysis over ZrO ₂ /ZSM-5-Attapulgate. <i>ChemSusChem</i> , 2019 , 12, 2428-2438 | 8.3 | 13 |
| 205 | Chemical insights on the activity of La _{1-x} Sr _x FeO ₃ perovskites for chemical looping reforming of methane coupled with CO ₂ -splitting. <i>Journal of CO₂ Utilization</i> , 2019 , 31, 16-26 | 7.6 | 28 |
| 204 | Catalytic Copyrolysis of Lignocellulose and Polyethylene Blends over HBeta Zeolite. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 6243-6254 | 3.9 | 12 |
| 203 | Transportation Biofuels via the Pyrolysis Pathway: Status and Prospects 2019 , 1081-1112 | | |
| 202 | Conversion of Stearic Acid into Bio-Gasoline over Pd/ZSM-5 Catalysts with Enhanced Accessibility. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2386 | 2.6 | 3 |
| 201 | Hydrotreating of Guaiacol and Acetic Acid Blends over NiP/ZSM-5 Catalysts: Elucidating Molecular Interactions during Bio-Oil Upgrading. <i>ACS Omega</i> , 2019 , 4, 21516-21528 | 3.9 | 7 |
| 200 | Progress in the design of zeolite catalysts for biomass conversion into biofuels and bio-based chemicals. <i>Catalysis Reviews - Science and Engineering</i> , 2018 , 60, 1-70 | 12.6 | 106 |
| 199 | Performance of MCM-22 zeolite for the catalytic fast-pyrolysis of acid-washed wheat straw. <i>Catalysis Today</i> , 2018 , 304, 30-38 | 5.3 | 24 |
| 198 | Catalytic hydrodeoxygenation of m-cresol over Ni ₂ P/hierarchical ZSM-5. <i>Catalysis Today</i> , 2018 , 304, 72-79 | 5.3 | 50 |
| 197 | Engineering the acidity and accessibility of the zeolite ZSM-5 for efficient bio-oil upgrading in catalytic pyrolysis of lignocellulose. <i>Green Chemistry</i> , 2018 , 20, 3499-3511 | 10 | 65 |
| 196 | Catalytic fast pyrolysis of biomass over Mg-Al mixed oxides derived from hydrotalcite-like precursors: Influence of Mg/Al ratio. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018 , 134, 362-370 | 6 | 27 |
| 195 | Exploring the thermochemical heat storage capacity of AMn ₂ O ₄ (A = Li or Cu) spinels. <i>Solid State Ionics</i> , 2018 , 320, 316-324 | 3.3 | 12 |
| 194 | Cross-reactivity of guaiacol and propionic acid blends during hydrodeoxygenation over Ni-supported catalysts. <i>Fuel</i> , 2018 , 214, 187-195 | 7.1 | 20 |
| 193 | Synthesis of hierarchical Beta zeolite with uniform mesopores: Effect on its catalytic activity for veratrole acylation. <i>Catalysis Today</i> , 2018 , 304, 89-96 | 5.3 | 20 |
| 192 | Unravelling the effect of charge dynamics at the plasmonic metal/semiconductor interface for CO photoreduction. <i>Nature Communications</i> , 2018 , 9, 4986 | 17.4 | 94 |
| 191 | From 3D to 2D zeolite catalytic materials. <i>Chemical Society Reviews</i> , 2018 , 47, 8263-8306 | 58.5 | 153 |

- 190 Elucidating the Photoredox Nature of Isolated Iron Active Sites on MCM-41. *ACS Catalysis*, **2017**, 7, 1646-1654 9
- 189 Advanced biofuels production by upgrading of pyrolysis bio-oil. *Wiley Interdisciplinary Reviews: Energy and Environment*, **2017**, 6, e245 4.7 52
- 188 Exploring the Redox Behavior of La_{0.6}Sr_{0.4}Mn_{1-x}Al_xO₃ Perovskites for CO₂-Splitting in Thermochemical Cycles. *Topics in Catalysis*, **2017**, 60, 1108-1118 2.3 12
- 187 Biomass catalytic fast pyrolysis over hierarchical ZSM-5 and Beta zeolites modified with Mg and Zn oxides. *Biomass Conversion and Biorefinery*, **2017**, 7, 289-304 2.3 55
- 186 Valorization of steam-exploded wheat straw through a biorefinery approach: Bioethanol and bio-oil co-production. *Fuel*, **2017**, 199, 403-412 7.1 43
- 185 Bio-oil production by lignocellulose fast-pyrolysis: Isolating and comparing the effects of indigenous versus external catalysts. *Fuel Processing Technology*, **2017**, 167, 563-574 7.2 32
- 184 Thermochemical valorization of camelina straw waste via fast pyrolysis. *Biomass Conversion and Biorefinery*, **2017**, 7, 277-287 2.3 17
- 183 Recycling of used lubricating oil: Evaluation of environmental and energy performance by LCA. *Resources, Conservation and Recycling*, **2017**, 125, 315-323 11.9 32
- 182 Hydroprocessing of the LDPE thermal cracking oil into transportation fuels over Pd supported on hierarchical ZSM-5 catalyst. *Fuel*, **2017**, 206, 190-198 7.1 32
- 181 Effect of hierarchical porosity in Beta zeolites on the Beckmann rearrangement of oximes. *Catalysis Science and Technology*, **2017**, 7, 181-190 5.5 23
- 180 CO reduction over NaNbO and NaTaO perovskite photocatalysts. *Photochemical and Photobiological Sciences*, **2017**, 16, 17-23 4.2 60
- 179 Properties of hierarchical Beta zeolites prepared from protozeolitic nanounits for the catalytic cracking of high density polyethylene. *Applied Catalysis A: General*, **2017**, 531, 187-196 5.1 29
- 178 Pyrolysis of microalgae for fuel production **2017**, 259-281 8
- 177 Ga-Promoted Photocatalytic H₂ Production over Pt/ZnO Nanostructures. *ACS Applied Materials & Interfaces*, **2016**, 8, 23729-38 9.5 35
- 176 Understanding Redox Kinetics of Iron-Doped Manganese Oxides for High Temperature Thermochemical Energy Storage. *Journal of Physical Chemistry C*, **2016**, 120, 27800-27812 3.8 39
- 175 Hydrogen production by methane decomposition over pure silica SBA-15 materials. *Catalysis Today*, **2016**, 277, 152-160 5.3 16
- 174 Catalytic cracking of LDPE over nanocrystalline HZSM-5 zeolite prepared by seed-assisted synthesis from an organic-template-free system. *Journal of Analytical and Applied Pyrolysis*, **2016**, 117, 132-140 6 29
- 173 Photocatalytic H₂ production from aqueous methanol solutions using metal-co-catalysed Zn₂SnO₄ nanostructures. *Applied Catalysis B: Environmental*, **2016**, 191, 106-115 21.8 17

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|-----|---|------|----|
| 172 | Revisiting the BaO ₂ /BaO redox cycle for solar thermochemical energy storage. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 8039-48 | 3.6 | 57 |
| 171 | Lamellar and pillared ZSM-5 zeolites modified with MgO and ZnO for catalytic fast-pyrolysis of eucalyptus woodchips. <i>Catalysis Today</i> , 2016 , 277, 171-181 | 5.3 | 91 |
| 170 | Ce-promoted Ni/SBA-15 catalysts for anisole hydrotreating under mild conditions. <i>Applied Catalysis B: Environmental</i> , 2016 , 197, 206-213 | 21.8 | 32 |
| 169 | Bidimensional ZSM-5 zeolites probed as catalysts for polyethylene cracking. <i>Catalysis Science and Technology</i> , 2016 , 6, 2754-2765 | 5.5 | 17 |
| 168 | Manganese oxide-based thermochemical energy storage: Modulating temperatures of redox cycles by Fe/Cu co-doping. <i>Journal of Energy Storage</i> , 2016 , 5, 169-176 | 7.8 | 36 |
| 167 | Hierarchical mesoporous Pd/ZSM-5 for the selective catalytic hydrodeoxygenation of m-cresol to methylcyclohexane. <i>Catalysis Science and Technology</i> , 2016 , 6, 2560-2564 | 5.5 | 44 |
| 166 | Role of the physicochemical properties of hausmannite on the hydrogen production via the Mn ₃ O ₄ /NaOH thermochemical cycle. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 113-122 | 6.7 | 13 |
| 165 | Hierarchical ZSM-5 zeolite with uniform mesopores and improved catalytic properties. <i>New Journal of Chemistry</i> , 2016 , 40, 4206-4216 | 3.6 | 26 |
| 164 | Evaluation of transition metal phosphides supported on ordered mesoporous materials as catalysts for phenol hydrodeoxygenation. <i>Green Chemistry</i> , 2016 , 18, 1938-1951 | 10 | 87 |
| 163 | Enhanced Production of Aromatic Hydrocarbons by Rapeseed Oil Conversion over Ga and Zn Modified ZSM-5 Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 12723-12732 | 3.9 | 26 |
| 162 | Design of efficient Mn-based redox materials for thermochemical heat storage at high temperatures 2016 , | | 11 |
| 161 | Assessing biomass catalytic pyrolysis in terms of deoxygenation pathways and energy yields for the efficient production of advanced biofuels. <i>Catalysis Science and Technology</i> , 2016 , 6, 2829-2843 | 5.5 | 63 |
| 160 | Hydrogen production by methane decomposition over MnO _x /YSZ catalysts. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 19382-19389 | 6.7 | 12 |
| 159 | Factors influencing the photocatalytic activity of alkali NbTa perovskites for hydrogen production from aqueous methanol solutions. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 19921-19928 | 6.7 | 11 |
| 158 | Influence of the Ni/P ratio and metal loading on the performance of Ni _x Py/SBA-15 catalysts for the hydrodeoxygenation of methyl oleate. <i>Fuel</i> , 2015 , 144, 60-70 | 7.1 | 60 |
| 157 | Current Challenges of CO ₂ Photocatalytic Reduction Over Semiconductors Using Sunlight 2015 , 171-191 | | 3 |
| 156 | Hydroreforming of the LDPE Thermal Cracking Oil over Hierarchical Ni/Beta Catalysts with Different Ni Particle Size Distributions. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 6660-6668 | 3.9 | 14 |
| 155 | Hydrogen production through catalytic methane decomposition promoted by pure silica materials. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 5237-5243 | 6.7 | 16 |

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| 154 | Transition Metal Phosphide Nanoparticles Supported on SBA-15 as Highly Selective Hydrodeoxygenation Catalysts for the Production of Advanced Biofuels. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 6642-50 | 1.3 | 8 |
| 153 | Thermochemical Heat Storage at High Temperatures using Mn ₂ O ₃ /Mn ₃ O ₄ System: Narrowing the Redox Hysteresis by Metal Co-doping. <i>Energy Procedia</i> , 2015 , 73, 263-271 | 2.3 | 20 |
| 152 | Hydrodeoxygenation of anisole as bio-oil model compound over supported Ni and Co catalysts: Effect of metal and support properties. <i>Catalysis Today</i> , 2015 , 243, 163-172 | 5.3 | 116 |
| 151 | Effect of Au surface plasmon nanoparticles on the selective CO ₂ photoreduction to CH ₄ . <i>Applied Catalysis B: Environmental</i> , 2015 , 178, 177-185 | 21.8 | 80 |
| 150 | Development of Hierarchical Porosity in Zeolites by Using Organosilane-Based Strategies 2015 , 157-198 | | 3 |
| 149 | Improving the Thermochemical Energy Storage Performance of the Mn ₂ O ₃ /Mn ₃ O ₄ Redox Couple by the Incorporation of Iron. <i>ChemSusChem</i> , 2015 , 8, 1947-54 | 8.3 | 91 |
| 148 | Mixed NaNb _x Ta _{1-x} O ₃ perovskites as photocatalysts for H ₂ production. <i>Green Chemistry</i> , 2015 , 17, 1735-1743 | 17.43 | 27 |
| 147 | Remarkable catalytic properties of hierarchical zeolite-Beta in epoxide rearrangement reactions. <i>Catalysis Today</i> , 2015 , 243, 141-152 | 5.3 | 25 |
| 146 | Hydroreforming of the oils from LDPE thermal cracking over NiRu and Ru supported over hierarchical Beta zeolite. <i>Fuel</i> , 2015 , 144, 287-294 | 7.1 | 33 |
| 145 | Enhanced photocatalytic hydrogen production by improving the Pt dispersion over mesostructured TiO ₂ . <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 4812-4819 | 6.7 | 33 |
| 144 | Hierarchical ZSM-5 zeolites synthesized by silanization of protozeolitic units: Mediating the mesoporosity contribution by changing the organosilane type. <i>Catalysis Today</i> , 2014 , 227, 15-25 | 5.3 | 51 |
| 143 | Effect of hierarchical porosity and fluorination on the catalytic properties of zeolite beta for glycerol etherification. <i>Applied Catalysis A: General</i> , 2014 , 473, 75-82 | 5.1 | 33 |
| 142 | Transportation fuel production by combination of LDPE thermal cracking and catalytic hydroreforming. <i>Waste Management</i> , 2014 , 34, 2176-84 | 8.6 | 22 |
| 141 | Conversion of LDPE into transportation fuels by a two-stage process using Ni/Al-SBA-15 as catalyst. <i>Journal of Material Cycles and Waste Management</i> , 2014 , 16, 435-441 | 3.4 | 2 |
| 140 | Hierarchical TS-1 zeolite as an efficient catalyst for oxidative desulphurization of hydrocarbon fractions. <i>Applied Catalysis B: Environmental</i> , 2014 , 146, 35-42 | 21.8 | 81 |
| 139 | Catalytic conversion of rapeseed oil for the production of raw chemicals, fuels and carbon nanotubes over Ni-modified nanocrystalline and hierarchical ZSM-5. <i>Applied Catalysis B: Environmental</i> , 2014 , 145, 205-215 | 21.8 | 93 |
| 138 | Thermochemical energy storage at high temperature via redox cycles of Mn and Co oxides: Pure oxides versus mixed ones. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 123, 47-57 | 6.4 | 113 |
| 137 | Photocatalytic hydrogen production in the water/methanol system using Pt/RE:NaTaO ₃ (RE = Y, La, Ce, Yb) catalysts. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 5283-5290 | 6.7 | 35 |

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| 136 | Thermochemical heat storage based on the Mn ₂ O ₃ /Mn ₃ O ₄ redox couple: influence of the initial particle size on the morphological evolution and cyclability. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 19435-19443 | 13 | 87 |
| 135 | Influence of the structural and textural properties of ordered mesoporous materials and hierarchical zeolitic supports on the controlled release of methylprednisolone hemisuccinate. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 7996-8004 | 7.3 | 25 |
| 134 | Effect of metal-support interaction on the selective hydrodeoxygenation of anisole to aromatics over Ni-based catalysts. <i>Applied Catalysis B: Environmental</i> , 2014 , 145, 91-100 | 21.8 | 159 |
| 133 | Narrowing the mesopore size distribution in hierarchical TS-1 zeolite by surfactant-assisted reorganization. <i>Microporous and Mesoporous Materials</i> , 2014 , 189, 71-82 | 5.3 | 42 |
| 132 | Selective oxidation of benzyl alcohol using in situ generated H ₂ O ₂ over hierarchical Au/Pd titanium silicalite catalysts. <i>Catalysis Science and Technology</i> , 2013 , 3, 2425 | 5.5 | 32 |
| 131 | Enhancement of hydrocarbon production via artificial photosynthesis due to synergetic effect of Ag supported on TiO ₂ and ZnO semiconductors. <i>Chemical Engineering Journal</i> , 2013 , 224, 128-135 | 14.7 | 51 |
| 130 | H ₂ production by CH ₄ decomposition over metallic cobalt nanoparticles: Effect of the catalyst activation. <i>Applied Catalysis A: General</i> , 2013 , 467, 371-379 | 5.1 | 12 |
| 129 | Advances in the design of ordered mesoporous materials for low-carbon catalytic hydrogen production. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12016 | 13 | 30 |
| 128 | Synthesis strategies in the search for hierarchical zeolites. <i>Chemical Society Reviews</i> , 2013 , 42, 4004-35 | 58.5 | 557 |
| 127 | Improvement of the hierarchical TS-1 properties by silanization of protozeolitic units in presence of alcohols. <i>Microporous and Mesoporous Materials</i> , 2013 , 166, 59-66 | 5.3 | 25 |
| 126 | Influence of structural and morphological characteristics on the hydrogen production and sodium recovery in the NaOH/MnO thermochemical cycle. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 13143-13152 | 6.7 | 15 |
| 125 | Effect of copper on the performance of ZnO and ZnO _{1-x} N _x oxides as CO ₂ photoreduction catalysts. <i>Catalysis Today</i> , 2013 , 209, 21-27 | 5.3 | 54 |
| 124 | Deactivation and regeneration of a Ni supported hierarchical Beta zeolite catalyst used in the hydroreforming of the oil produced by LDPE thermal cracking. <i>Fuel</i> , 2013 , 109, 679-686 | 7.1 | 40 |
| 123 | Hydrocarbons production through hydrotreating of methyl esters over Ni and Co supported on SBA-15 and Al-SBA-15. <i>Catalysis Today</i> , 2013 , 210, 81-88 | 5.3 | 79 |
| 122 | Kinetic and autocatalytic effects during the hydrogen production by methane decomposition over carbonaceous catalysts. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 5671-5683 | 6.7 | 42 |
| 121 | Catalytic conversion of rapeseed oil into raw chemicals and fuels over Ni- and Mo-modified nanocrystalline ZSM-5 zeolite. <i>Catalysis Today</i> , 2012 , 195, 59-70 | 5.3 | 119 |
| 120 | On the feasibility of producing hydrogen with net carbon fixation by the decomposition of vegetable and microalgal oils. <i>Energy and Environmental Science</i> , 2012 , 5, 6126 | 35.4 | 22 |
| 119 | Hydroreforming over Ni/H-beta of the thermal cracking products of LDPE, HDPE and PP for fuel production. <i>Journal of Material Cycles and Waste Management</i> , 2012 , 14, 286-293 | 3.4 | 13 |

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| 118 | Preliminary assessment of plastic waste valorization via sequential pyrolysis and catalytic reforming. <i>Journal of Material Cycles and Waste Management</i> , 2012 , 14, 301-307 | 3.4 | 17 |
| 117 | Auto shredder residue recycling: Mechanical separation and pyrolysis. <i>Waste Management</i> , 2012 , 32, 852-8 | 8.6 | 52 |
| 116 | Developing Advanced Catalysts for the Conversion of Polyolefinic Waste Plastics into Fuels and Chemicals. <i>ACS Catalysis</i> , 2012 , 2, 1924-1941 | 13.1 | 216 |
| 115 | Synthesis of Nickel Phosphide Nanorods as Catalyst for the Hydrotreating of Methyl Oleate. <i>Topics in Catalysis</i> , 2012 , 55, 991-998 | 2.3 | 20 |
| 114 | Tailoring the properties of hierarchical TS-1 zeolite synthesized from silanized protozeolitic units. <i>Applied Catalysis A: General</i> , 2012 , 435-436, 32-42 | 5.1 | 53 |
| 113 | Conversion of Polyethylene into Transportation Fuels by the Combination of Thermal Cracking and Catalytic Hydroreforming over Ni-Supported Hierarchical Beta Zeolite. <i>Energy & Fuels</i> , 2012 , 26, 3187-3195 | 4.1 | 78 |
| 112 | Ni2P/SBA-15 As a Hydrodeoxygenation Catalyst with Enhanced Selectivity for the Conversion of Methyl Oleate Into n-Octadecane. <i>ACS Catalysis</i> , 2012 , 2, 592-598 | 13.1 | 142 |
| 111 | Influence of the calcination treatment on the catalytic properties of hierarchical ZSM-5. <i>Catalysis Today</i> , 2012 , 179, 91-101 | 5.3 | 42 |
| 110 | Life cycle assessment of alternatives for hydrogen production from renewable and fossil sources. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 1173-1183 | 6.7 | 90 |
| 109 | Mild temperature hydrogen production by methane decomposition over cobalt catalysts prepared with different precipitating agents. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 7034-7041 | 6.7 | 27 |
| 108 | Acidic and catalytic properties of hierarchical zeolites and hybrid ordered mesoporous materials assembled from MFI protozeolitic units. <i>Journal of Catalysis</i> , 2011 , 279, 366-380 | 7.3 | 130 |
| 107 | Synthesis of hierarchical ZSM-5 by silanization and alkoxylation of protozeolitic units. <i>Catalysis Today</i> , 2011 , 168, 86-95 | 5.3 | 53 |
| 106 | Hierarchical TS-1 zeolite synthesized from SiO2 TiO2 xerogels imprinted with silanized protozeolitic units. <i>Chemical Engineering Journal</i> , 2011 , 171, 1428-1438 | 14.7 | 50 |
| 105 | Co-production of graphene sheets and hydrogen by decomposition of methane using cobalt based catalysts. <i>Energy and Environmental Science</i> , 2011 , 4, 778 | 35.4 | 31 |
| 104 | Hydrogen Production from Fossil Fuels: Life Cycle Assessment of Technologies with Low Greenhouse Gas Emissions. <i>Energy & Fuels</i> , 2011 , 25, 2194-2202 | 4.1 | 50 |
| 103 | Catalytic hydroreforming of the polyethylene thermal cracking oil over Ni supported hierarchical zeolites and mesostructured aluminosilicates. <i>Applied Catalysis B: Environmental</i> , 2011 , 106, 405-415 | 21.8 | 82 |
| 102 | Comparison of metal and carbon catalysts for hydrogen production by methane decomposition. <i>Applied Catalysis A: General</i> , 2011 , 396, 40-51 | 5.1 | 57 |
| 101 | Synthesis of hard mesoporous macro-spheres with silicate and aluminosilicate compositions. <i>Journal of Porous Materials</i> , 2010 , 17, 387-397 | 2.4 | 3 |

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|-----|--|-----|-----|
| 100 | Synthesis of Hierarchical TS-1 Zeolite from Silanized Seeds. <i>Topics in Catalysis</i> , 2010 , 53, 1319-1329 | 2.3 | 28 |
| 99 | Catalytic properties in polyolefin cracking of hierarchical nanocrystalline HZSM-5 samples prepared according to different strategies. <i>Journal of Catalysis</i> , 2010 , 276, 152-160 | 7.3 | 62 |
| 98 | Nanocrystalline ZSM-5: A catalyst with high activity and selectivity for epoxide rearrangement reactions. <i>Journal of Molecular Catalysis A</i> , 2010 , 318, 68-74 | | 24 |
| 97 | Hydrogen production by methane decomposition: Origin of the catalytic activity of carbon materials. <i>Fuel</i> , 2010 , 89, 1241-1248 | 7.1 | 116 |
| 96 | Methane catalytic decomposition over ordered mesoporous carbons: A promising route for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 9788-9794 | 6.7 | 54 |
| 95 | Life cycle assessment of hydrogen production by methane decomposition using carbonaceous catalysts. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 1205-1212 | 6.7 | 35 |
| 94 | Cobalt based catalysts prepared by Pechini method for CO ₂ -free hydrogen production by methane decomposition. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 10285-10294 | 6.7 | 62 |
| 93 | HDPE chemical recycling promoted by phenol solvent. <i>Journal of Analytical and Applied Pyrolysis</i> , 2009 , 85, 366-371 | 6 | 25 |
| 92 | Catalytic cracking of polyethylene over zeolite mordenite with enhanced textural properties. <i>Journal of Analytical and Applied Pyrolysis</i> , 2009 , 85, 352-358 | 6 | 96 |
| 91 | Synthesis of SnMicalite from hydrothermal conversion of SiO ₂ /SnO ₂ xerogels. <i>Microporous and Mesoporous Materials</i> , 2009 , 119, 176-185 | 5.3 | 31 |
| 90 | H ₂ production from methane pyrolysis over commercial carbon catalysts: Kinetic and deactivation study. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 4488-4494 | 6.7 | 98 |
| 89 | Life cycle assessment of processes for hydrogen production. Environmental feasibility and reduction of greenhouse gases emissions. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 1370-1376 | 6.7 | 156 |
| 88 | Preparation of extruded catalysts based on TS-1 zeolite for their application in propylene epoxidation. <i>Catalysis Today</i> , 2009 , 143, 151-157 | 5.3 | 51 |
| 87 | Friedel-Crafts acylation of anisole over hybrid zeolitic-mesostructured materials. <i>Applied Catalysis A: General</i> , 2009 , 359, 69-78 | 5.1 | 43 |
| 86 | Valorization of Waste Agricultural Polyethylene Film by Sequential Pyrolysis and Catalytic Reforming. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 8697-8703 | 3.9 | 25 |
| 85 | Molecular and Meso- and Macroscopic Properties of Hierarchical Nanocrystalline ZSM-5 Zeolite Prepared by Seed Silanization. <i>Chemistry of Materials</i> , 2009 , 21, 641-654 | 9.6 | 168 |
| 84 | On the Sn(II) and Sn(IV) incorporation into the AFI-structured AlPO ₄ -based framework: the first significantly acidic SnAPO-5. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6833 | | 23 |
| 83 | Turning TS-1 zeolite into a highly active catalyst for olefin epoxidation with organic hydroperoxides. <i>Chemical Communications</i> , 2009 , 1407-9 | 5.8 | 80 |

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