# Mehran Rezaei

## List of Publications by Citations



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| 219 papers | 6,474 citations | 46 h-index | 65 g-index |
| 227 ext. papers | 7,646 ext. citations | 5.8 avg, IF | 6.77 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 219 | Effect of alkaline earth promoters (MgO, CaO, and BaO) on the activity and coke formation of Ni catalysts supported on nanocrystalline Al2O3 in dry reforming of methane. *Journal of Industrial and Engineering Chemistry*, **2014**, 20, 2858-2863 | 6.3 | 194 |
| 218 | CO2 reforming of CH4 over nanocrystalline zirconia-supported nickel catalysts. *Applied Catalysis B: Environmental*, **2008**, 77, 346-354 | 21.8 | 180 |
| 217 | Preparation of highly active nickel catalysts supported on mesoporous nanocrystalline Al2O3 for CO2 methanation. *Journal of Industrial and Engineering Chemistry*, **2014**, 20, 1346-1352 | 6.3 | 166 |
| 216 | Combined dry reforming and partial oxidation of methane to synthesis gas on noble metal catalysts. *International Journal of Hydrogen Energy*, **2011**, 36, 2969-2978 | 6.7 | 159 |
| 215 | Dry reforming of methane to synthesis gas on NiO MgO nanocrystalline solid solution catalysts. *International Journal of Hydrogen Energy*, **2013**, 38, 3012-3018 | 6.7 | 105 |
| 214 | Synthesis of high surface area nanocrystalline MgO by pluronic P123 triblock copolymer surfactant. *Powder Technology*, **2011**, 205, 112-116 | 5.2 | 97 |
| 213 | Syngas Production by Methane Reforming with Carbon Dioxide on Noble Metal Catalysts. *Journal of Natural Gas Chemistry*, **2006**, 15, 327-334 | | 96 |
| 212 | Methane decomposition over Ni Fe/Al2O3 catalysts for production of COx-free hydrogen and carbon nanofiber. *International Journal of Hydrogen Energy*, **2016**, 41, 1574-1584 | 6.7 | 94 |
| 211 | Methane dry reforming on Ni/Ce0.75Zr0.25O2 MgAl2O4 and Ni/Ce0.75Zr0.25O2 alumina: Effects of support composition and water addition. *International Journal of Hydrogen Energy*, **2012**, 37, 4107-4118 | 6.7 | 94 |
| 210 | Effects of support modifiers on the catalytic performance of Ni/Al2O3 catalyst in CO2 reforming of methane. *Fuel*, **2014**, 129, 197-203 | 7.1 | 88 |
| 209 | Effect of Ni loadings on the activity and coke formation of MgO-modified Ni/Al2O3 nanocatalyst in dry reforming of methane. *Journal of Energy Chemistry*, **2014**, 23, 633-638 | 12 | 82 |
| 208 | Nanocrystalline MgO supported nickel-based bimetallic catalysts for carbon dioxide reforming of methane. *International Journal of Hydrogen Energy*, **2010**, 35, 10295-10301 | 6.7 | 81 |
| 207 | Synthesis of mesoporous nanocrystalline MgAl2O4 spinel via surfactant assisted precipitation route. *Powder Technology*, **2010**, 198, 275-278 | 5.2 | 76 |
| 206 | Dry reforming over CeO2-promoted Ni/MgO nano-catalyst: Effect of Ni loading and CH4/CO2 molar ratio. *Journal of Industrial and Engineering Chemistry*, **2015**, 21, 717-722 | 6.3 | 75 |
| 205 | Ordered meso- and macroporous perovskite oxide catalysts for emerging applications. *Chemical Communications*, **2018**, 54, 6484-6502 | 5.8 | 75 |
| 204 | Preparation of highly active and stable NiO CeO2 nanocatalysts for CO selective methanation. *International Journal of Hydrogen Energy*, **2015**, 40, 8539-8547 | 6.7 | 75 |
| 203 | Preparation of promoted nickel catalysts supported on mesoporous nanocrystalline gamma alumina for carbon dioxide methanation reaction. *Journal of Industrial and Engineering Chemistry*, **2014**, 20, 4176-4182 | 6.3 | 74 |

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| 202 | The influence of Ni loading on the activity and coke formation of ultrasound-assisted co-precipitated NiAl2O3 nanocatalyst in dry reforming of methane. *International Journal of Hydrogen Energy*, **2017**, 42, 4155-4164 | 6.7 | 73 |
| 201 | Low temperature CO oxidation over FeCo mixed oxide nanocatalysts. *Chemical Engineering Journal*, **2012**, 184, 141-146 | 14.7 | 71 |
| 200 | Facile synthesis of nanocrystalline magnesium oxide with high surface area. *Powder Technology*, **2009**, 196, 85-88 | 5.2 | 71 |
| 199 | Investigation of the catalytic performance of Ni/MgO catalysts in partial oxidation, dry reforming and combined reforming of methane. *Journal of Industrial and Engineering Chemistry*, **2014**, 20, 1251-1260 | 6.3 | 70 |
| 198 | CO2 reforming of methane over nickel catalysts supported on nanocrystalline MgAl2O4 with high surface area. *Journal of Natural Gas Chemistry*, **2012**, 21, 200-206 | | 69 |
| 197 | Synthesis gas production over highly active and stable nanostructured NiMgOAl2O3 catalysts in dry reforming of methane: Effects of Ni contents. *Fuel*, **2017**, 194, 171-179 | 7.1 | 66 |
| 196 | Carbon dioxide reforming of methane for syngas production over CoMgO mixed oxide nanocatalysts. *Journal of Industrial and Engineering Chemistry*, **2015**, 21, 662-667 | 6.3 | 65 |
| 195 | Enhanced activity of CO2 methanation over mesoporous nanocrystalline NiAl2O3 catalysts prepared by ultrasound-assisted co-precipitation method. *International Journal of Hydrogen Energy*, **2017**, 42, 15115-15125 | 6.7 | 62 |
| 194 | Hydrogen and carbon nanofibers synthesis by methane decomposition over NiPd/Al2O3 catalyst. *International Journal of Hydrogen Energy*, **2016**, 41, 5494-5503 | 6.7 | 62 |
| 193 | Tetragonal nanocrystalline zirconia powder with high surface area and mesoporous structure. *Powder Technology*, **2006**, 168, 59-63 | 5.2 | 60 |
| 192 | CO methanation over Ni catalysts supported on high surface area mesoporous nanocrystalline Al2O3 for CO removal in H2-rich stream. *International Journal of Hydrogen Energy*, **2015**, 40, 1809-1819 | 6.7 | 59 |
| 191 | Catalytic performance of Ag/Fe2O3 for the low temperature oxidation of carbon monoxide. *Chemical Engineering Journal*, **2013**, 219, 124-130 | 14.7 | 57 |
| 190 | Autothermal reforming of methane over nickel catalysts supported on nanocrystalline MgAl2O4 with high surface area. *International Journal of Hydrogen Energy*, **2012**, 37, 1236-1242 | 6.7 | 57 |
| 189 | Nickel catalyst supported on magnesium oxide with high surface area and plate-like shape: A highly stable and active catalyst in methane reforming with carbon dioxide. *Catalysis Communications*, **2011**, 12, 1046-1050 | 3.2 | 57 |
| 188 | Carbon dioxide methanation over Ni-M/Al2O3 (M: Fe, CO, Zr, La and Cu) catalysts synthesized using the one-pot sol-gel synthesis method. *International Journal of Hydrogen Energy*, **2018**, 43, 16522-16533 | 6.7 | 56 |
| 187 | Facile synthesis of a mesoporous alumina and its application as a support of Ni-based autothermal reforming catalysts. *International Journal of Hydrogen Energy*, **2016**, 41, 3456-3464 | 6.7 | 55 |
| 186 | Mesoporous nanocrystalline MgAl2O4 spinel and its applications as support for Ni catalyst in dry reforming. *Scripta Materialia*, **2009**, 61, 212-215 | 5.6 | 55 |
| 185 | Low-temperature synthesis of mesoporous nanocrystalline magnesium aluminate (MgAl2O4) spinel with high surface area using a novel modified sol-gel method. *Advanced Powder Technology*, **2017**, 28, 1249-1257 | 4.6 | 54 |

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| 184 | Combination of dry reforming and partial oxidation of methane over Ni catalysts supported on nanocrystalline MgAl2O4. *Fuel*, **2013**, 113, 571-579 | 7.1 | 52 |
| 183 | Influence of group VIB metals on activity of the Ni/MgO catalysts for methane decomposition. *Applied Catalysis B: Environmental*, **2019**, 248, 515-525 | 21.8 | 49 |
| 182 | Effects of K 2O Promoter on the Activity and Stability of Nickel Catalysts Supported on Mesoporous Nanocrystalline Zirconia in CH 4 Reforming with CO 2. *Energy & Fuels*, **2008**, 22, 2195-2202 | 4.1 | 49 |
| 181 | Effect of process parameters on the synthesis of nanocrystalline magnesium oxide with high surface area and plate-like shape by surfactant assisted precipitation method. *Powder Technology*, **2010**, 199, 144-148 | 5.2 | 48 |
| 180 | CO2□CH4Reforming over Nickel Catalysts Supported on Mesoporous Nanocrystalline Zirconia with High Surface Area. *Energy & Fuels*, **2007**, 21, 581-589 | 4.1 | 48 |
| 179 | Mesoporous MgO□Al2O3 nanopowder-supported meso□macroporous nickel catalysts: a new path to high-performance biogas reforming for syngas. *RSC Advances*, **2016**, 6, 29576-29585 | 3.7 | 48 |
| 178 | Thermocatalytic decomposition of methane over mesoporous nanocrystalline promoted Ni/MgO□Al2O3 catalysts. *International Journal of Hydrogen Energy*, **2017**, 42, 16476-16488 | 6.7 | 47 |
| 177 | Low-temperature CO oxidation over nanosized Fe□o mixed oxide catalysts: Effect of calcination temperature and operational conditions. *Chemical Engineering Science*, **2013**, 94, 237-244 | 4.4 | 47 |
| 176 | Effect of substitution by Ni in MgAl2O4 spinel for biogas dry reforming. *International Journal of Hydrogen Energy*, **2017**, 42, 24159-24168 | 6.7 | 47 |
| 175 | Methane dissociation to COx-free hydrogen and carbon nanofiber over Ni-Cu/Al2O3 catalysts. *Fuel*, **2017**, 195, 88-96 | 7.1 | 46 |
| 174 | CeO2 Promoted Ni-MgO-Al2O3 nanocatalysts for carbon dioxide reforming of methane. *Journal of CO2 Utilization*, **2018**, 24, 128-138 | 7.6 | 46 |
| 173 | Preparation of nanocrystalline MgO by surfactant assisted precipitation method. *Materials Research Bulletin*, **2011**, 46, 1632-1637 | 5.1 | 46 |
| 172 | Optimizing the sol□gel parameters on the synthesis of mesostructure nanocrystalline □Al2O3. *Microporous and Mesoporous Materials*, **2009**, 122, 72-78 | 5.3 | 46 |
| 171 | Thermocatalytic decomposition of methane to COx-free hydrogen and carbon over Ni□e□Cu/Al2O3 catalysts. *International Journal of Hydrogen Energy*, **2016**, 41, 13039-13049 | 6.7 | 44 |
| 170 | Preparation and characterization of ultrasound-assisted co-precipitated nanocrystalline La-, Ce-, Zr □promoted Ni-Al2O3 catalysts for dry reforming reaction. *Journal of CO2 Utilization*, **2017**, 22, 124-134 | 7.6 | 41 |
| 169 | Nanocrystalline Zirconia as Support for Nickel Catalyst in Methane Reforming with CO2. *Energy & Fuels*, **2006**, 20, 923-929 | 4.1 | 41 |
| 168 | Steam reforming of glycerol on mesoporous nanocrystalline Ni/Al 2 O 3 catalysts for H 2 production. *International Journal of Hydrogen Energy*, **2016**, 41, 20137-20146 | 6.7 | 41 |
| 167 | Preparation of nanocrystalline metal (Cr, Al, Mn, Ce, Ni, Co and Cu) modified ferrite catalysts for the high temperature water gas shift reaction. *Renewable Energy*, **2015**, 74, 588-598 | 8.1 | 40 |

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| 166 | Autothermal reforming of methane over Ni catalysts supported on nanocrystalline MgO with high surface area and plated-like shape. *International Journal of Hydrogen Energy*, **2011**, 36, 11712-11717 | 6.7 | 40 |
| 165 | Ultrasound assisted co-precipitation synthesis and catalytic performance of mesoporous nanocrystalline NiO-AlO powders. *Ultrasonics Sonochemistry*, **2017**, 34, 436-447 | 8.9 | 39 |
| 164 | Selective methanation of carbon monoxide in hydrogen rich stream over Ni/CeO2 nanocatalysts. *Journal of Rare Earths*, **2015**, 33, 619-628 | 3.7 | 39 |
| 163 | Thermocatalytic conversion of methane to highly pure hydrogen over Ni□Cu/MgO□Al2O3 catalysts: Influence of noble metals (Pt and Pd) on the catalytic activity and stability. *Energy Conversion and Management*, **2018**, 166, 268-280 | 10.6 | 39 |
| 162 | Surfactant-assisted hydrothermal synthesis of CuCr2O4 spinel catalyst and its application in CO oxidation process. *Journal of Environmental Chemical Engineering*, **2017**, 5, 4906-4916 | 6.8 | 39 |
| 161 | Thermodynamic analysis of combined reforming process using Gibbs energy minimization method: In view of solid carbon formation. *Journal of Natural Gas Chemistry*, **2012**, 21, 694-702 | | 39 |
| 160 | Low temperature synthesis of nanocrystalline magnesium aluminate with high surface area by surfactant assisted precipitation method: Effect of preparation conditions. *Materials Research Bulletin*, **2012**, 47, 2154-2160 | 5.1 | 39 |
| 159 | Preparation of nanocrystalline □Al2O3 catalyst using different procedures for methanol dehydration to dimethyl ether. *Journal of Natural Gas Chemistry*, **2011**, 20, 334-338 | | 39 |
| 158 | Preparation and characterization of mesoporous nanocrystalline La-, Ce-, Zr-, Sr-containing Ni Al2O3 methane autothermal reforming catalysts. *International Journal of Hydrogen Energy*, **2016**, 41, 8855-8862 | 6.7 | 39 |
| 157 | Synthesis of nanocrystalline mesoporous Ni/Al2O3SiO2 catalysts for CO2 methanation reaction. *International Journal of Hydrogen Energy*, **2018**, 43, 19038-19046 | 6.7 | 39 |
| 156 | A novel route for electrosynthesis of CuCr(2)O(4) nanocomposite with p-type conductive polymer as a high performance material for electrochemical supercapacitors. *Journal of Colloid and Interface Science*, **2017**, 496, 401-406 | 9.3 | 38 |
| 155 | Preparation of nickel catalysts supported on CaO.2Al2O3 for methane reforming with carbon dioxide. *International Journal of Hydrogen Energy*, **2012**, 37, 6356-6362 | 6.7 | 38 |
| 154 | Nanocrystalline gamma-alumina: A highly active catalyst for dimethyl ether synthesis. *Powder Technology*, **2010**, 199, 176-179 | 5.2 | 38 |
| 153 | Preparation of nanocrystalline NiO□MgO solid solution powders as catalyst for methane reforming with carbon dioxide: Effect of preparation conditions. *Advanced Powder Technology*, **2014**, 25, 1111-1117 | 4.6 | 37 |
| 152 | Mesoporous nanocrystalline zirconia powders: A promising support for nickel catalyst in CH4 reforming with CO2. *Materials Letters*, **2007**, 61, 2628-2631 | 3.3 | 36 |
| 151 | Nanocrystalline magnesium oxide: a novel and efficient catalyst for facile synthesis of 2,4,5-trisubstituted imidazole derivatives. *Monatshefte F□ Chemie*, **2010**, 141, 1339-1345 | 1.4 | 34 |
| 150 | Preparation of mesoporous nanocrystalline iron based catalysts for high temperature water gas shift reaction: Effect of preparation factors. *Chemical Engineering Journal*, **2015**, 260, 107-116 | 14.7 | 33 |
| 149 | Study of Fe□o mixed metal oxide nanoparticles in the catalytic low-temperature CO oxidation. *Chemical Engineering Research and Design*, **2013**, 91, 489-494 | 5.5 | 33 |

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| 148 | Low temperature CO oxidation over mesoporous CuFe2O4 nanopowders synthesized by a novel sol-gel method. *Chinese Journal of Catalysis*, **2013**, 34, 1762-1767 | 11.3 | 33 |
| 147 | A theoretical and experimental study of glycerol steam reforming over Rh/MgAl 2 O 4 catalysts. *Energy Conversion and Management*, **2017**, 154, 127-137 | 10.6 | 33 |
| 146 | Ni catalysts supported on nanocrystalline magnesium oxide for syngas production by CO2 reforming of CH4. *Journal of Natural Gas Chemistry*, **2011**, 20, 198-203 | | 32 |
| 145 | Preparation of mesoporous nanocrystalline Ni-MgAl2O4 catalysts by sol-gel combustion method and its applications in dry reforming reaction. *Advanced Powder Technology*, **2016**, 27, 1963-1970 | 4.6 | 32 |
| 144 | Preparation of highly active and stable nanostructured Ni/CeO 2 catalysts for syngas production by partial oxidation of methane. *International Journal of Hydrogen Energy*, **2016**, 41, 6316-6325 | 6.7 | 32 |
| 143 | Advanced studies of coupled conductive polymer/metal oxide nano wire composite as an efficient supercapacitor by common and fast fourier electrochemical methods. *Journal of Molecular Liquids*, **2016**, 220, 489-494 | 6 | 32 |
| 142 | A comparative study of experimental investigation and response surface optimization of steam reforming of glycerol over nickel nano-catalysts. *International Journal of Hydrogen Energy*, **2016**, 41, 10178-10192 | 6.7 | 31 |
| 141 | Synthesis gas production by catalytic partial oxidation of methane, ethane and propane on mesoporous nanocrystalline Ni/Al2O3 catalysts. *International Journal of Hydrogen Energy*, **2016**, 41, 19057-19069 | 6.7 | 31 |
| 140 | Defect engineering of oxide perovskites for catalysis and energy storage: synthesis of chemistry and materials science. *Chemical Society Reviews*, **2021**, 50, 10116-10211 | 58.5 | 31 |
| 139 | Synthesis and characterization of nanocrystalline copper□hromium catalyst and its application in the oxidation of carbon monoxide. *Chemical Engineering Research and Design*, **2017**, 107, 181-189 | 5.5 | 30 |
| 138 | Highly Selective Reduction of Carbon Dioxide to Methane on Novel Mesoporous Rh Catalysts. *ACS Applied Materials & Interfaces*, **2018**, 10, 24963-24968 | 9.5 | 30 |
| 137 | CO x -free hydrogen and carbon nanofibers production by methane decomposition over nickel-alumina catalysts. *Korean Journal of Chemical Engineering*, **2016**, 33, 490-499 | 2.8 | 29 |
| 136 | Coprecipitated Ni-Co Bimetallic Nanocatalysts for Methane Dry Reforming. *Chemical Engineering and Technology*, **2014**, 37, 973-978 | 2 | 29 |
| 135 | A facile method for preparation of iron based catalysts for high temperature water gas shift reaction. *Journal of Industrial and Engineering Chemistry*, **2014**, 20, 3297-3302 | 6.3 | 29 |
| 134 | Preparation of noble metal nanocatalysts and their applications in catalytic partial oxidation of methane. *Journal of Industrial and Engineering Chemistry*, **2013**, 19, 981-986 | 6.3 | 28 |
| 133 | COx-free hydrogen and carbon nanofibers production by thermocatalytic decomposition of methane over mesoporous MgO□Al2O3 nanopowder-supported nickel catalysts. *Fuel Processing Technology*, **2017**, 167, 250-262 | 7.2 | 28 |
| 132 | Characterization of CeO2 Promoter of a Nanocrystalline Ni/MgO Catalyst in Dry Reforming of Methane. *Chemical Engineering and Technology*, **2014**, 37, 957-963 | 2 | 28 |
| 131 | Preparation of Ni0.1Mg0.9O nanocrystalline powder and its catalytic performance in methane reforming with carbon dioxide. *Journal of Industrial and Engineering Chemistry*, **2013**, 19, 234-239 | 6.3 | 28 |

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| 130 | Mesoporous Ni/MeO (Me = Al, Mg, Ti, and Si): Highly efficient catalysts in the decomposition of methane for hydrogen production. *Applied Surface Science*, **2019**, 478, 581-593 | 6.7 | 27 |
| 129 | Synthesis of pure tetragonal zirconium oxide with high surface area. *Journal of Materials Science*, **2007**, 42, 1228-1237 | 4.3 | 27 |
| 128 | Microemulsion synthesis method for preparation of mesoporous nanocrystalline Al2O3 powders as catalyst carrier for nickel catalyst in dry reforming reaction. *International Journal of Hydrogen Energy*, **2016**, 41, 6353-6361 | 6.7 | 27 |
| 127 | Dry reforming over mesoporous nanocrystalline 5% Ni/M-MgAl2O4 (M: CeO2, ZrO2, La2O3) catalysts. *International Journal of Hydrogen Energy*, **2019**, 44, 16516-16525 | 6.7 | 26 |
| 126 | Ce promoting effect on the activity and coke formation of Ni catalysts supported on mesoporous nanocrystalline Al2O3 in autothermal reforming of methane. *International Journal of Hydrogen Energy*, **2017**, 42, 11130-11138 | 6.7 | 25 |
| 125 | Glycerol steam reforming over noble metal nanocatalysts. *Chemical Engineering Research and Design*, **2017**, 123, 360-366 | 5.5 | 25 |
| 124 | CH4 reforming with CO2 for syngas production over La2O3 promoted Ni catalysts supported on mesoporous nanostructured Al2O3. *Journal of Energy Chemistry*, **2014**, 23, 435-442 | 12 | 25 |
| 123 | Effect of process parameters on the synthesis of mesoporous nanocrystalline zirconia with triblock copolymer as template. *Journal of Porous Materials*, **2008**, 15, 171-179 | 2.4 | 25 |
| 122 | Biogas Reforming for Hydrogen Production: A New Path to High-Performance Nickel Catalysts Supported on Magnesium Aluminate Spinel. *ChemCatChem*, **2016**, 8, 3600-3610 | 5.2 | 25 |
| 121 | The evaluation of autothermal methane reforming for hydrogen production over Ni/CeO2 catalysts. *International Journal of Hydrogen Energy*, **2018**, 43, 22340-22346 | 6.7 | 25 |
| 120 | Production of syngas via glycerol dry reforming on Ni catalysts supported on mesoporous nanocrystalline Al2O3. *Journal of CO2 Utilization*, **2018**, 24, 298-305 | 7.6 | 24 |
| 119 | Effects of alkaline earth promoters on the catalytic performance of the nickel catalysts supported on high surface area mesoporous magnesium silicate in dry reforming reaction. *International Journal of Hydrogen Energy*, **2016**, 41, 22913-22921 | 6.7 | 24 |
| 118 | A highly stable catalyst in methane reforming with carbon dioxide. *Scripta Materialia*, **2009**, 61, 173-176 | 5.6 | 23 |
| 117 | Supported Mn catalysts and the role of different supports in the catalytic oxidation of carbon monoxide. *Chemical Engineering Science*, **2019**, 197, 37-51 | 4.4 | 23 |
| 116 | Dry reforming reaction over nickel catalysts supported on nanocrystalline calcium aluminates with different CaO/Al2O3 ratios. *Journal of Natural Gas Chemistry*, **2012**, 21, 178-183 | | 22 |
| 115 | Optimization of preparation conditions of Fe-Co nanoparticles in low-temperature CO oxidation reaction by taguchi design method. *Journal of Natural Gas Chemistry*, **2012**, 21, 415-420 | | 22 |
| 114 | Effects of CO2 content on the activity and stability of nickel catalyst supported on mesoporous nanocrystalline zirconia. *Journal of Natural Gas Chemistry*, **2008**, 17, 278-282 | | 22 |
| 113 | Synthesis of mesoporous nanocrystalline zirconia with tetragonal crystallite phase by using ethylene diamine as precipitation agent. *Journal of Materials Science*, **2007**, 42, 7086-7092 | 4.3 | 22 |

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| 112 | Preparation of Ni-M (M: La, Co, Ce, and Fe) catalysts supported on mesoporous nanocrystalline Al2O3 for CO2 methanation. *Environmental Progress and Sustainable Energy*, **2019**, 38, 118-126 | 2.5 | 22 |
| 111 | Mesoporous nanostructured Ni/MgAl2O4 catalysts: Highly active and stable catalysts for syngas production in combined dry reforming and partial oxidation. *International Journal of Hydrogen Energy*, **2019**, 44, 10427-10442 | 6.7 | 21 |
| 110 | Synthesis Gas Production by Catalytic Partial Oxidation of Propane on Mesoporous Nanocrystalline Ni/Al2O3 Catalysts. *Applied Catalysis A: General*, **2017**, 529, 1-9 | 5.1 | 21 |
| 109 | Thermocatalytic decomposition of methane over mesoporous Ni/xMgOAl2O3 nanocatalysts. *International Journal of Hydrogen Energy*, **2018**, 43, 15112-15123 | 6.7 | 20 |
| 108 | Characterization and evaluation of mesoporous high surface area promoted Ni- Al2O3 catalysts in CO2 methanation. *Journal of the Energy Institute*, **2020**, 93, 482-495 | 5.7 | 20 |
| 107 | Preparation of mesoporous nanocrystalline alkali promoted chromium free catalysts (Fe2O3Al2O3NiO) for a high temperature water gas shift reaction. *RSC Advances*, **2015**, 5, 9955-9964 | 3.7 | 19 |
| 106 | High-temperature water-gas shift reaction over nanostructured Cr-free Fe2O3Al2O3CuOMO (M: Ba, Ca, Mg and Sr) catalysts for hydrogen production. *Journal of Industrial and Engineering Chemistry*, **2015**, 30, 353-358 | 6.3 | 19 |
| 105 | Mesoporous Ba-promoted chromium free Fe2O3Al2O3NiO catalyst with low methanation activity for high temperature water gas shift reaction. *Catalysis Communications*, **2015**, 58, 26-29 | 3.2 | 19 |
| 104 | Preparation of MnO 2 nanowires and its application in low temperature CO oxidation. *Korean Journal of Chemical Engineering*, **2013**, 30, 2012-2016 | 2.8 | 19 |
| 103 | Synthesis of nanocrystalline Ce0.95Mn0.05O2 solid solution powders as support for nickel catalyst in dry reforming reaction. *Journal of Environmental Chemical Engineering*, **2017**, 5, 5493-5500 | 6.8 | 18 |
| 102 | Preparation of mesoporous Fe-Cu mixed metal oxide nanopowder as active and stable catalyst for low-temperature CO oxidation. *Chinese Journal of Catalysis*, **2015**, 36, 1711-1718 | 11.3 | 18 |
| 101 | Synthesis and Application of Noble Metal Nanocatalysts Supported on MgAl2O4 in Glycerol Dry Reforming Reaction. *Catalysis Letters*, **2018**, 148, 164-172 | 2.8 | 18 |
| 100 | Low temperature synthesis of nanocrystalline calcium aluminate compounds with surfactant-assisted precipitation method. *Advanced Powder Technology*, **2014**, 25, 467-471 | 4.6 | 18 |
| 99 | Preparation of high surface area Ni/MgAl2O4 nanocatalysts for CO selective methanation. *International Journal of Hydrogen Energy*, **2018**, 43, 772-780 | 6.7 | 18 |
| 98 | Pd doped LaSrCuO4 perovskite nano-catalysts synthesized by a novel solid state method for CO oxidation and Methane combustion. *Ceramics International*, **2018**, 44, 21499-21506 | 5.1 | 18 |
| 97 | Ultrasound-assisted hydrothermal method for the preparation of the M-FeO-CuO (M: Mn, Ag, Co) mixed oxides nanocatalysts for low-temperature CO oxidation. *Ultrasonics Sonochemistry*, **2019**, 57, 212-222 | 8.9 | 17 |
| 96 | Synthesis of nanostructured magnesium silicate with high surface area and mesoporous structure. *Ceramics International*, **2016**, 42, 6883-6890 | 5.1 | 17 |
| 95 | Preparation of Highly Active Nickel Catalysts Supported on Mesoporous Nanocrystalline Al2O3 for Methane Autothermal Reforming. *Chemical Engineering and Technology*, **2015**, 38, 1637-1645 | 2 | 17 |

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| 94 | SYNTHESIS OF NANOCRYSTALLINE MGAL2O4 SPINEL BY USING ETHYLENE DIAMINE AS PRECIPITATION AGENT. *Chemical Engineering Communications*, **2009**, 196, 1417-1424 | 2.2 | 17 |
| 93 | Preparation of Ni/MeAl2O4-MgAl2O4 (Me=Fe, Co, Ni, Cu, Zn, Mg) nanocatalysts for the syngas production via combined dry reforming and partial oxidation of methane. *Renewable Energy*, **2020**, 149, 1053-1067 | 8.1 | 17 |
| 92 | Synthesis of Nanocrystalline CeO2 with High Surface Area by the Taguchi Method and its Application in Methanation. *Chemical Engineering and Technology*, **2015**, 38, 265-273 | 2 | 16 |
| 91 | Preparation of nanocrystalline Zr, La and Mg-promoted 10% Ni/Ce 0.95 Mn 0.05 O 2 catalysts for syngas production via dry reforming reaction. *International Journal of Hydrogen Energy*, **2018**, 43, 6532-6538 | 6.7 | 16 |
| 90 | A highly active and stable chromium free iron based catalyst for H 2 purification in high temperature water gas shift reaction. *International Journal of Hydrogen Energy*, **2014**, 39, 18302-18311 | 6.7 | 16 |
| 89 | Preparation of nanocrystalline Fe2O3□Cr2O3□CuO powder by a modified urea hydrolysis method: A highly active and stable catalyst for high temperature water gas shift reaction. *Materials Research Bulletin*, **2015**, 64, 418-424 | 5.1 | 16 |
| 88 | Preparation and characterization of Ni catalysts supported on pillared nanoporous bentonite powders for dry reforming reaction. *International Journal of Hydrogen Energy*, **2019**, 44, 27429-27444 | 6.7 | 15 |
| 87 | Component ratio dependent Cu/Zn/Al structure sensitive catalyst in CO2/CO hydrogenation to methanol. *Molecular Catalysis*, **2018**, 456, 38-48 | 3.3 | 15 |
| 86 | Nickel catalyst supported on mesoporous MgAl2O4 nanopowders synthesized via a homogenous precipitation method for dry reforming reaction. *Research on Chemical Intermediates*, **2017**, 43, 545-559 | 2.8 | 15 |
| 85 | Synthesis of ceria doped nanozirconia powder by a polymerized complex method. *Journal of Porous Materials*, **2009**, 16, 497-505 | 2.4 | 15 |
| 84 | Solid-state synthesis method for the preparation of cobalt doped Ni□Al2O3 mesoporous catalysts for CO2 methanation. *International Journal of Hydrogen Energy*, **2021**, 46, 3933-3944 | 6.7 | 15 |
| 83 | Performance Research on a Methane Compact Reformer Integrated with Catalytic Combustion. *Chemical Engineering and Technology*, **2014**, 37, 1220-1226 | 2 | 14 |
| 82 | Preparation of nanocrystalline Ni/Al2O3 catalysts with the microemulsion method for dry reforming of methane. *Canadian Journal of Chemical Engineering*, **2016**, 94, 1177-1183 | 2.3 | 14 |
| 81 | Preparation of high temperature water gas shift catalyst with coprecipitation method in microemulsion system. *Chemical Engineering Research and Design*, **2016**, 113, 9-16 | 5.5 | 14 |
| 80 | Enhanced low-temperature activity of CO2 methanation over ceria-promoted Ni-Al2O3 nanocatalyst. *Chemical Engineering Science*, **2021**, 230, 116194 | 4.4 | 14 |
| 79 | Electrochemical study of perlite-barium ferrite/conductive polymer nano composite for super capacitor applications. *International Journal of Hydrogen Energy*, **2019**, 44, 28088-28095 | 6.7 | 13 |
| 78 | Synthesis of mesoporous magnesium aluminate (MgAl2O4) nanopowder with high surface area with a novel and simple sol□gel method. *Journal of Porous Materials*, **2015**, 22, 481-485 | 2.4 | 13 |
| 77 | Simplified direct pyrolysis method for preparation of nanocrystalline iron based catalysts for H 2 purification via high temperature water gas shift reaction. *Chemical Engineering Research and Design*, **2015**, 95, 288-297 | 5.5 | 13 |

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| 75 | Preparation of mesoporous nanocrystalline 10% Ni/Ce1−xMnx O2 catalysts for dry reforming reaction. *International Journal of Hydrogen Energy*, **2017**, 42, 24776-24784 | 6.7 | 13 |
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