# Michael Stephen Scurrell

List of Publications by Year
in descending order



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|---|---|---|---|
| 151 papers | 5,229 citations | 87888 38 h-index | 110387 64 g-index |
| 158 all docs | 158 docs citations | 158 times ranked | 5294 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Oxidative coupling of methane using oxide catalysts. Chemical Society Reviews, 1989, 18, 251. | 38.1 | 360 |
| 2 | Silver nanoparticle catalysed redox reaction: An electron relay effect. Materials Chemistry and Physics, 2006, 97, 283-287. | 4.0 | 242 |
| 3 | Gas Conversion to Liquid Fuels and Chemicals: The Methanol Routeâ€Catalysis and Processes Development. Catalysis Reviews - Science and Engineering, 2009, 51, 1-145. | 12.9 | 162 |
| 4 | Hydroxyapatite as a novel support for gold and ruthenium catalysts Behaviour in the water gas shift reaction. Applied Catalysis A: General, 2003, 245, 137-147. | 4.3 | 137 |
| 5 | Polymerization of Aniline by Auric Acid: Formation of Gold Decorated Polyaniline Nanoballs. Macromolecular Rapid Communications, 2005, 26, 232-235. | 3.9 | 135 |
| 6 | Low temperature reductive pretreatment of Au/Fe2O3 catalysts, TPR/TPO studies and behaviour in the waterâ€"gas shift reaction. Applied Catalysis A: General, 2004, 258, 241-249. | 4.3 | 133 |
| 7 | Activation of Au/TiO2Catalyst for CO Oxidation. Journal of Physical Chemistry B, 2005, 109, 10319-10326. | 2.6 | 128 |
| 8 | Self-assembly of silver nanoparticles in a polymer solvent: formation of a nanochain through nanoscale soldering. Materials Chemistry and Physics, 2005, 90, 221-224. | 4.0 | 126 |
| 9 | Fabrication of a Metal Nanoparticles and Polymer Nanofibers Composite Material by an in Situ Chemical Synthetic Route. Langmuir, 2005, 21, 7964-7967. | 3.5 | 116 |
| 10 | In situ synthesis of copper nanoparticles and poly(o-toluidine): A metalâ€"polymer composite material. European Polymer Journal, 2006, 42, 670-675. | 5.4 | 98 |
| 11 | Factors affecting the selectivity of the aromatization of light alkanes on modified ZSM-5 catalysts. Applied Catalysis, 1988, 41, 89-98. | 0.8 | 95 |
| 12 | Hydrogenation of acetylene in excess ethylene on an alumina supported palladium catalyst in a static system. Journal of the Chemical Society Faraday Transactions I, 1977, 73, 632. | 1.0 | 80 |
| 13 | Aromatization of n-hexane over Ga, Mo and Zn modified H-ZSM-5 zeolite catalysts. Catalysis Communications, 2015, 72, 49-52. | 3.3 | 80 |
| 14 | Conversion of methane-ethylene mixtures over sulphate-treated zirconia catalysts. Applied Catalysis, 1987, 34, 109-117. | 0.8 | 72 |
| 15 | The effect of calcination temperature on the adsorption of nitric oxide on Au-TiO2: Drifts studies. Applied Catalysis A: General, 2005, 291, 98-115. | 4.3 | 69 |
| 16 | Conversion of synthesis gas to dimethyl ether over bifunctional catalytic systems. Industrial & Engineering Chemistry Research, 1991, 30, 2372-2378. | 3.7 | 67 |
| 17 | CO oxidation over gold nanoparticles supported on TiO2 and TiO2-ZnO: catalytic activity effects due to surface modification of TiO2 with ZnO. Applied Catalysis A: General, 2003, 253, 527-536. | 4.3 | 67 |
| 18 | Conjugated polymer stabilized palladium nanoparticles as a versatile catalyst for Suzuki cross-coupling reactions for both aryl and heteroaryl bromide systems. Catalysis Science and Technology, 2011, 1, 308. | 4.1 | 67 |

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|---|---|---|---|
| 19 | Light alkanes aromatization to BTX over Zn-ZSM-5 catalysts. Applied Catalysis A: General, 2002, 235, 265-272. | 4.3 | 64 |
| 20 | CO oxidation over titanate nanotube supported Au: Deactivation due to bicarbonate. Journal of Catalysis, 2009, 261, 94-100. | 6.2 | 63 |
| 21 | In-situ synthesis of a palladium-polyaniline hybrid catalyst for a Suzuki coupling reaction. Journal of Organometallic Chemistry, 2011, 696, 2206-2210. | 1.8 | 61 |
| 22 | Oligomerization of Ethene In a Slurry Reactor Using a Nickel(II)-Exchanged Silicaâ€"Alumina Catalyst. Journal of Catalysis, 2001, 197, 49-57. | 6.2 | 59 |
| 23 | Title is missing!. Catalysis Letters, 2003, 90, 1-6. | 2.6 | 59 |
| 24 | The goldâ€"rutheniumâ€"iron oxide catalytic system for the low temperature waterâ€"gas-shift reaction The examination of goldâ€"ruthenium interactions. Applied Catalysis A: General, 2003, 245, 149-158. | 4.3 | 57 |
| 25 | DRIFTS studies of the interaction of nitric oxide and carbon monoxide on Auâ€"TiO2. Catalysis Today, 2002, 72, 79-87. | 4.4 | 55 |
| 26 | Reductive routes to stabilized nanogold and relation to catalysis by supported gold. Applied Catalysis A: General, 2005, 292, 76-81. | 4.3 | 55 |
| 27 | A Basic Approach to Evaluate Methane Partial Oxidation Catalysts. Journal of Catalysis, 1993, 143, 262-274. | 6.2 | 54 |
| 28 | Partial oxidation of methane over oxide catalysts. Comments on the reaction mechanism. Journal of the Chemical Society Faraday Transactions I, 1989, 85, 2507. | 1.0 | 52 |
| 29 | Controlled Synthesis of CeO<sub>2</sub>NS-Au-CdSQDs Ternary Nanoheterostructure: A Promising Visible Light Responsive Photocatalyst for H<sub>2</sub> Evolution. Inorganic Chemistry, 2017, 56, 12297-12307. | 4.0 | 50 |
| 30 | Supported gold catalysts prepared by in situ reduction technique: preparation, characterization and catalytic activity measurements. Applied Catalysis A: General, 2004, 259, 163-168. | 4.3 | 49 |
| 31 | Polyaniline stabilized highly dispersed gold nanoparticle: an in-situ chemical synthesis route. Journal of Materials Science, 2006, 41, 6189-6192. | 3.7 | 48 |
| 32 | Novel high activity catalyst for partial oxidation of methane to formaldehyde. Journal of the Chemical Society Chemical Communications, 1993, , 751. | 2.0 | 46 |
| 33 | Dramatic promotion of gold/titania for CO oxidation by sulfate ions. Chemical Communications, 2007, , 1044. | 4.1 | 46 |
| 34 | Dehydroaromatization of methane over doped Pt/Mo/H-ZSM-5 zeolite catalysts: The promotional effect of tin. Applied Catalysis A: General, 2014, 485, 238-244. | 4.3 | 44 |
| 35 | Low temperature CO oxidation over gold supported mesoporous Feâ€"TiO2. Journal of Molecular Catalysis A, 2010, 319, 92-97. | 4.8 | 42 |
| 36 | Highly stabilized Ag2O-loaded nano TiO2 for hydrogen production from glycerol: Water mixtures under solar light irradiation. International Journal of Hydrogen Energy, 2017, 42, 807-820. | 7.1 | 42 |

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|---|---|---|---|
| 37 | Supported liquid-phase hydroformylation catalysts containing rhodium and triphenylphosphine. Journal of Molecular Catalysis, 1979, 6, 405-420. | 1.2 | 41 |
| 38 | Partial oxidation of methane over samarium and lanthanum oxides: a study of the reaction mechanism. Catalysis Today, 1989, 4, 371-381. | 4.4 | 41 |
| 39 | Exchange of alkanes with deuterium over Î³-alumina. A BrÃ¸nsted linear free energy relationship. Journal of the Chemical Society Faraday Transactions I, 1975, 71, 903. | 1.0 | 38 |
| 40 | The influence of gold on the optical properties of solâ€"gel derived titania. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 396, 70-76. | 5.6 | 38 |
| 41 | Acetic acid production by selective oxidation of ethanol using Au catalysts supported on various metal oxide. Gold Bulletin, 2009, 42, 321-327. | 2.7 | 38 |
| 42 | Effect of Pretreatment Variables on the Reaction of Nitric Oxide (NO) with Auâˆ'TiO2:Â DRIFTS Studies. Journal of Physical Chemistry B, 2004, 108, 18254-18260. | 2.6 | 37 |
| 43 | Redox catalytic property of gold nanoclusters: evidence of an electron-relay effect. Applied Physics A: Materials Science and Processing, 2005, 80, 797-801. | 2.3 | 37 |
| 44 | Palladium-Polyaniline and Palladium-Polyaniline Derivative Composite Materials. Platinum Metals Review, 2007, 51, 3-15. | 1.2 | 37 |
| 45 | NAS (novel aluminosilicates) as catalysts for the aromatisation of propane. Catalysis Today, 2002, 71, 429-435. | 4.4 | 36 |
| 46 | Polymerization of Aniline by Cupric Sulfate: A Facile Synthetic Route for Producing Polyaniline. Journal of Polymer Research, 2007, 13, 397-401. | 2.4 | 36 |
| 47 | Supported liquid phase hydroformylation catalysts containing rhodium and triphenylphosphine. Effects of additional solvents and kinetics. Journal of Molecular Catalysis, 1981, 12, 179-195. | 1.2 | 34 |
| 48 | Direct partial oxidation of methane: Effect of the oxidant on the reaction. Applied Catalysis, 1988, 38, 157-165. | 0.8 | 34 |
| 49 | Cetane number determination of synthetic diesel fuels. Fuel, 1992, 71, 1323-1327. | 6.4 | 34 |
| 50 | Formation of palladium nanoparticles in poly (o-methoxyaniline) macromolecule fibers: An in-situ chemical synthesis method. European Physical Journal E, 2006, 19, 149-154. | 1.6 | 34 |
| 51 | Effect of a titania covering on CNTS as support for the Ru catalysed selective CO methanation. Applied Catalysis B: Environmental, 2018, 232, 492-500. | 20.2 | 34 |
| 52 | Fabrication of a nanostructured gold-polymer composite material. European Physical Journal E, 2006, 20, 347-353. | 1.6 | 33 |
| 53 | Effects of incorporation of ions into Au/TiO2 catalysts for carbon monoxide oxidation. Topics in Catalysis, 2007, 44, 167-172. | 2.8 | 33 |
| 54 | Optical, microscopic and low temperature electrical property of one-dimensional goldâ€"polyaniline composite networks. Journal Physics D: Applied Physics, 2009, 42, 095409. | 2.8 | 33 |

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|---|---|---|---|
| 55 | Selectivity of a heterogeneous rhodium catalyst for the carbonylation of monohydric alcohols. Journal of the Chemical Society Faraday Transactions I, 1977, 73, 2036. | 1.0 | 32 |
| 56 | Gold in polyaniline: Recent trends. Gold Bulletin, 2006, 39, 166-174. | 2.7 | 32 |
| 57 | Simplified single-step synthetic route for the preparation of a highly active gold-based catalyst for CO oxidation. Journal of Molecular Catalysis A, 2004, 215, 103-106. | 4.8 | 31 |
| 58 | The role of surface O? in the selective oxidation of methane. Journal of the Chemical Society Chemical Communications, 1987, , 1388. | 2.0 | 30 |
| 59 | Effect of the metal oxide loading on the activity of silica supported MoO3 and V2O5 catalysts in the selective partial oxidation of methane. Catalysis Letters, 1993, 18, 283-288. | 2.6 | 30 |
| 60 | Self-assembly of silver nanoparticles: Formation of a thin silver film in a polymer matrix. Materials Science and Engineering C, 2006, 26, 87-91. | 7.3 | 30 |
| 61 | Nickel silica-alumina catalysts for ethene oligomerizationâ€"control of the selectivity to 1-alkene products. Applied Catalysis A: General, 2003, 245, 43-53. | 4.3 | 29 |
| 62 | In situ synthesis of a Pdâ€"poly (1,8-diaminonaphthalene) nanocomposite: An efficient catalyst for Heck reactions under phosphine-free conditions. Catalysis Communications, 2010, 12, 116-121. | 3.3 | 29 |
| 63 | The role of gas phase reaction in the selective oxidation of methane. Journal of the Chemical Society Chemical Communications, 1988, , 253. | 2.0 | 28 |
| 64 | The selective dissolution of alumina, cobalt and platinum from a calcined spent catalyst using different lixiviants. Minerals Engineering, 2005, 18, 801-810. | 4.3 | 28 |
| 65 | Hydrogen production from glycerol reforming: conventional and green production. Reviews in Chemical Engineering, 2018, 34, 695-726. | 4.4 | 28 |
| 66 | Designing Oxidation Catalysts: Are We Getting Better?. Cattech, 2003, 7, 90-103. | 2.2 | 27 |
| 67 | The effect of gold on the phase transitions of titania. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 396, 61-69. | 5.6 | 27 |
| 68 | On-line deactivation of Au/TiO2 for CO oxidation in H2-rich gas streams. Catalysis Today, 2007, 122, 254-259. | 4.4 | 27 |
| 69 | Activity and selectivity of nickel-exchanged silica-alumina catalysts for the oligomerization of propene and 1-butene into distillate-range products. Applied Catalysis A: General, 2003, 248, 239-248. | 4.3 | 26 |
| 70 | Directional assembly of polyaniline functionalized gold nanoparticles. Journal of Physics Condensed Matter, 2007, 19, 196225. | 1.8 | 26 |
| 71 | Hydrophilic behaviour of gold-poly (o-phenylenediamine) hybrid nanocomposite. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 140, 166-171. | 3.5 | 25 |
| 72 | In-situ chemical synthesis route for a fiber shaped gold-polyaniline nanocomposite. Gold Bulletin, 2008, 41, 246-250. | 2.7 | 25 |

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| 73 | Role of Preparation Techniques in the Activity of Au/TiO2 Nanostructures Stabilised on SiO2: CO and Preferential CO Oxidation. Topics in Catalysis, 2009, 52, 912-919. | 2.8 | 25 |
| 74 | Paramagnetic polyaniline nanospheres. Chemical Physics Letters, 2010, 494, 232-236. | 2.6 | 25 |
| 75 | Carbonylation of methanol and ethanol on a rhodiumâ€"zeolite catalyst. Journal of the Chemical Society Faraday Transactions I, 1978, 74, 2313. | 1.0 | 24 |
| 76 | Polymer-encapsulated metal nanoparticles: optical, structural, micro-analytical and hydrogenation studies of a composite material. Nanotechnology, 2008, 19, 075708. | 2.6 | 24 |
| 77 | Thoughts on the use of gold-based catalysts in environmental protection catalysis. Gold Bulletin, 2017, 50, 77-84. | 2.4 | 24 |
| 78 | Heterogeneous hydroformylation catalysts produced by direct interaction between rhodium complexes and the support. Journal of Molecular Catalysis, 1980, 10, 127-132. | 1.2 | 23 |
| 79 | Direct observation of thermally activated NO adsorbate species on Auî—¸TiO2: DRIFTS studies. Journal of Molecular Catalysis A, 2004, 219, 131-141. | 4.8 | 23 |
| 80 | Characterization by ammonia adsorption microcalorimetry of substantially amorphous or partially crystalline ZSM-5 materials and correlation with catalytic activity. Applied Catalysis A: General, 2002, 223, 29-33. | 4.3 | 21 |
| 81 | Polymer-stabilized colloidal gold: a convenient method for the synthesis of nanoparticles by a UV-irradiation approach. Applied Physics A: Materials Science and Processing, 2005, 80, 395-398. | 2.3 | 21 |
| 82 | The effects of boron and silver on the oxygen-free conversion of methane over Mo/H-ZSM-5 catalysts. Journal of Molecular Catalysis A, 2009, 305, 40-46. | 4.8 | 21 |
| 83 | Dehydroaromatization of methane over Snâ€"Pt modified Mo/H-ZSM-5 zeolite catalysts: Effect of preparation method. Applied Catalysis A: General, 2015, 503, 218-226. | 4.3 | 21 |
| 84 | Carbon produced by the catalytic decomposition of methane on nickel: Carbon yields and carbon structure as a function of catalyst properties. Journal of Natural Gas Science and Engineering, 2016, 32, 501-511. | 4.4 | 20 |
| 85 | Low-Temperature Waterâ€"Gas Shift Reaction over Au Supported on Anatase in the Presence of Copper: EXAFS/XANES Analysis of Goldâ€"Copper Ion Mixtures on TiO<sub>2</sub>. Journal of Physical Chemistry C, 2017, 121, 8812-8823. | 3.1 | 20 |
| 86 | Observations on an alternative route for the preparation of Rh-zeolites active in the carbonylation of methanol. Journal of Molecular Catalysis, 1983, 18, 375-380. | 1.2 | 19 |
| 87 | Comparison of ethene and ethane primary selectivities with Li/MgO and MgO catalysts for oxidative coupling of methane: comments on the role of lithium. Journal of the Chemical Society Chemical Communications, 1987, , 1862. | 2.0 | 19 |
| 88 | Methane dehydroaromatization over modified Mn/H-ZSM-5 zeolite catalysts: Effect of tungsten as a secondary metal. Catalysis Communications, 2016, 78, 37-43. | 3.3 | 18 |
| 89 | Photocatalytic H2 production from glycerolâ€"water mixtures over Ni/Î³-Al2O3 and TiO2 composite systems. International Journal of Hydrogen Energy, 2017, 42, 15031-15043. | 7.1 | 18 |
| 90 | Preparation of highly dispersed Pd-nanoparticles in poly- (o-aminophenol) needles: An â€˜intimate composite materialâ€™. Journal of Materials Science, 2006, 41, 1733-1737. | 3.7 | 17 |

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| 91 | Metalâ€"Polymer Hybrid Material as a Catalyst for the Heck Coupling Reaction Under Phosphine-Free Conditions. Synthetic Communications, 2011, 41, 3561-3572. | 2.1 | 17 |
| 92 | Cyanide leaching of gold catalysts. Catalysis Communications, 2015, 67, 87-89. | 3.3 | 17 |
| 93 | Identification of novel catalysts and conditions for the highly efficient and stable heterogeneous oligomerization of ethylene. Journal of the Chemical Society Chemical Communications, 1991, , 126. | 2.0 | 16 |
| 94 | Palladium Nanoparticles in Poly(oâ€phenylenediamine): Synthesis of a Nanostructured â€˜Metalâ€Polymerâ€™ Composite Material. Journal of Macromolecular Science - Pure and Applied Chemistry, 2006, 43, 1469-1476. | 2.2 | 16 |
| 95 | Potassium Titanate: An Alternative Support for Gold Catalyzed Carbon Monoxide Oxidation?. Catalysis Letters, 2008, 123, 193-197. | 2.6 | 16 |
| 96 | Carbon Surface Modifications by Plasma for Catalyst Support and Electrode Materials Applications. Topics in Catalysis, 2017, 60, 823-830. | 2.8 | 16 |
| 97 | Solar photocatalytic glycerol reforming for hydrogen production over Ternary Cu/THS/graphene photocatalyst: Effect of Cu and graphene loading. Renewable Energy, 2020, 156, 84-97. | 8.9 | 16 |
| 98 | Preparation and characterization of a conjugated polymer and copper nanoparticle composite material: A chemical synthesis route. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 123, 181-186. | 3.5 | 15 |
| 99 | The effect of protonation and oxidation state of polyaniline on the stability of gold nanoparticles. European Polymer Journal, 2016, 82, 300-306. | 5.4 | 15 |
| 100 | Achieving nano-gold stability through rational design. Chemical Science, 2016, 7, 6815-6823. | 7.4 | 15 |
| 101 | Polymerization of ethylene on chromium oxide catalysts. Part 4.â€"Infra-red study of the adsorption of nitric oxide and ammonia on active catalyst. Journal of the Chemical Society Faraday Transactions I, 1973, 69, 660. | 1.0 | 14 |
| 102 | Metathesis of fatty esters derived from South African sunflower oil. JAOCS, Journal of the American Oil Chemists' Society, 1990, 67, 362-363. | 1.9 | 14 |
| 103 | Enhanced photocatalytic hydrogen formation over Fe-loaded TiO2 and g-C3N4 composites from mixed glycerol and water by solar irradiation. Journal of Renewable and Sustainable Energy, 2018, 10, . | 2.0 | 14 |
| 104 | Formation and surface reactions of oxide supported rhodium carbonyl complexes. Journal of Molecular Catalysis, 1980, 10, 57-67. | 1.2 | 13 |
| 105 | Synthesis of gold-polyaniline nanocomposites by complexation. Polymers for Advanced Technologies, 2016, 27, 1195-1203. | 3.2 | 13 |
| 106 | CO Oxidation over Anatase TiO2 Supported Au: Effect of Nitrogen Doping. Catalysis Letters, 2009, 130, 341-349. | 2.6 | 11 |
| 107 | Light alkane aromatization over modified Zn-ZSM-5 catalysts: characterization of the catalysts by hydrogen/deuterium isotope exchange. Reaction Kinetics, Mechanisms and Catalysis, 2011, 104, 303-309. | 1.7 | 11 |
| 108 | Evidence for the enhancement of the catalytic action of Zn-ZSM-5-based catalysts for propane aromatization using microwave radiation. Catalysis Communications, 2002, 3, 253-256. | 3.3 | 10 |

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| 109 | True Nickel-Catalyzed Oligomerization versus Hetero-Oligomerization: Development of Indicators for Determining the Mode of Oligomerization as a Function of Reaction Temperature. Catalysis Letters, 2004, 95, 87-91. | 2.6 | 10 |
| 110 | A novel synthesis route for a goldâ€"polymer soft composite material. Physica Status Solidi - Rapid Research Letters, 2007, 1, R1-R3. | 2.4 | 10 |
| 111 | Low-pressure methanol/ dimethylether synthesis from syngas on gold-based catalysts. Gold Bulletin, 2007, 40, 219-224. | 2.7 | 10 |
| 112 | Cold plasmas in the modification of catalysts. Reviews in Chemical Engineering, 2018, 34, 201-213. | 4.4 | 10 |
| 113 | Synthesis of highly oriented gold thin films by a UV-irradiation route. EPJ Applied Physics, 2005, 29, 45-49. | 0.7 | 9 |
| 114 | Optical and micro-analytical study of a copper-conjugated polymer composite. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 2263-2269. | 1.8 | 9 |
| 115 | Self Assembly of the Metal Nanoparticles: Formation of the Highly Oriented, Core-Shell Type, Bimetallic Goldâ€"Silver Film. Journal of Nanoparticle Research, 2007, 9, 323-330. | 1.9 | 9 |
| 116 | Conversion of Synthesis Gas to Dimethylether Over Gold-based Catalysts. Topics in Catalysis, 2012, 55, 771-781. | 2.8 | 9 |
| 117 | Catalytic activity of gold-perovskite catalysts in the oxidation of carbon monoxide. Gold Bulletin, 2016, 49, 35-44. | 2.4 | 9 |
| 118 | Effect of Fe on the activity of Au/FeO x -TiO2 catalysts for CO oxidation. Gold Bulletin, 2016, 49, 9-20. | 2.4 | 9 |
| 119 | Microwave treatment: a facile method for the solid state modification of potassium-promoted iron on silica Fischerâ€"Tropsch catalysts. RSC Advances, 2016, 6, 22222-22231. | 3.6 | 9 |
| 120 | Selective CO Methanation Over Ru Supported on Carbon Spheres: The Effect of Carbon Functionalization on the Reverse Water Gas Shift Reaction. Catalysis Letters, 2018, 148, 3502-3513. | 2.6 | 9 |
| 121 | Studies of the Mechanism of the Oxidative Coupling of Methane Using Oxide Catalysts. , 1992, , 200-258. | | 9 |
| 122 | Extraction of cobalt(II) from an ammonium nitrate-containing leach liquor by an ammonium salt of di(2-ethylhexyl)phosphoric acid. Minerals Engineering, 2003, 16, 1013-1017. | 4.3 | 8 |
| 123 | Catalytic activity of a soft composite material: Nanoparticle locationâ€"activity relationship. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 150, 43-49. | 3.5 | 8 |
| 124 | Prospects for Lower Carbon Routes for Conversion of Natural Gas to Energy. Energy & Fuels, 2017, 31, 6374-6377. | 5.1 | 8 |
| 125 | Effects of loading on structure of Rh zeolite catalysts and their activity for methanol carbonylation. Zeolites, 1983, 3, 261-270. | 0.5 | 7 |
| 126 | Selective oxidation of methane in the presence of NO: new evidence on the reaction mechanism. Journal of the Chemical Society Chemical Communications, 1989, , 765. | 2.0 | 7 |

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|---|---|---|---|
| 127 | Oxidative coupling of methane using Li/MgO catalyst: Re-appraisal of the optimum loading of Li. Catalysis Letters, 1990, 5, 301-308. | 2.6 | 7 |
| 128 | Effects of preparation methods on gold/titania catalysts for CO oxidation. Journal of Molecular Catalysis A, 2008, 288, 125-130. | 4.8 | 7 |
| 129 | The effects of ring substituents in aniline on the reactivity of PANI with hydrogen tetrachloroaurate and the dispersion of gold nanoparticles. Polymers for Advanced Technologies, 2016, 27, 759-764. | 3.2 | 7 |
| 130 | Study of Carbon Monoxide Hydrogenation Over Supported Au Catalysts. Studies in Surface Science and Catalysis, 2007, 163, 141-151. | 1.5 | 6 |
| 131 | Exchange reactions of benzene and alkylbenzenes with deuterium on alumina and magnesium oxide. Journal of the Chemical Society Faraday Transactions I, 1976, 72, 818. | 1.0 | 5 |
| 132 | Selective oxidation of methane in the presence of nitric oxide: comments on the reaction mechanism. Catalysis Today, 1990, 6, 399-407. | 4.4 | 5 |
| 133 | Gas phase hydrogenation reaction using a â€˜metal nanoparticleâ€“polymerâ€™ composite catalyst. Journal of Materials Science, 2008, 43, 6289-6295. | 3.7 | 5 |
| 134 | Formation of metal nanoparticles in a polymer nanofiber: a hybrid material for gas-phase catalytic reactions. Smart Materials and Structures, 2008, 17, 045013. | 3.5 | 5 |
| 135 | Evidence for carbanionic intermediates during exchange between butanes and deuterium on alumina. Journal of the Chemical Society Chemical Communications, 1973, , 799a. | 2.0 | 4 |
| 136 | Reactions of 3,3-dimethylbut-1-ene with deuterium or deuterium oxide on oxide catalysts. Journal of the Chemical Society Faraday Transactions I, 1976, 72, 2512. | 1.0 | 4 |
| 137 | Characteristics of gold-zeolite Y catalysts in CO oxidation and ethylene hydrogenation. Studies in Surface Science and Catalysis, 2007, 170, 1059-1064. | 1.5 | 4 |
| 138 | TPSR study: effect of microwave radiation on the physicochemical properties of Fe/ZSM-5 in the methanol to hydrocarbons (MTH) process. Journal of Porous Materials, 2020, 27, 165-177. | 2.6 | 4 |
| 139 | Microwave Radiation-Induced Increases in Catalytic Performance: The Effect of Bedshape During Irradiation. Current Microwave Chemistry, 2017, 4, . | 0.8 | 4 |
| 140 | Microwaveâ€“induced Solid-state Interactions for the Synthesis of Fischer-Tropsch Catalysts. Current Microwave Chemistry, 2016, 03, 1-1. | 0.8 | 4 |
| 141 | Stability of gold particles in NaY-type zeolites: Promotional effects of co-exchanged metal cations. Microporous and Mesoporous Materials, 2017, 241, 52-57. | 4.4 | 3 |
| 142 | PROPENE OLIGOMERIZATION OVER TiO2â€“ZrO2CATALYSTS. Chemistry Letters, 1984, 13, 1781-1782. | 1.3 | 2 |
| 143 | The Conversion of Methanol into Higher Hydrocarbons Catalyzed by Gold. ChemCatChem, 2016, 8, 3118-3120. | 3.7 | 2 |
| 144 | The effect of microwave irradiation on heterogeneous catalysts for Fischerâ€“Tropsch synthesis. Reviews in Chemical Engineering, 2019, . | 4.4 | 2 |

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| 145 | Dehydroaromatization of methane over noble metal loaded Mo/H-ZSM-5 zeolite catalysts. Applied Petrochemical Research, 2021, 11, 235-248. | 1.3 | 2 |
| 146 | Microwave modification of iron supported on beta silicon carbide catalysts for Fischerâ€"Tropsch synthesis. Reaction Chemistry and Engineering, 2022, 7, 1307-1314. | 3.7 | 2 |
| 147 | Use of iron pentacarbonyl as a novel probe for the characterization of gold supported on silica. Journal of Molecular Catalysis A, 2003, 193, 151-155. | 4.8 | 1 |
| 148 | Methane conversion to chemicals, carbon and hydrogen (MCCH) over modified molybdenum-NAS catalysts. Studies in Surface Science and Catalysis, 2007, 167, 13-18. | 1.5 | 1 |
| 149 | Designing Oxidation Catalysts: Are We Getting Better?. ChemInform, 2003, 34, no. | 0.0 | 0 |
| 150 | Gold-Catalysed Reactions. , 0, , . | | 0 |
| 151 | Microwave Radiation Effects on the Acidic Properties of Fe/ZSM-5 Catalysts for Methanol Conversion. Current Microwave Chemistry, 2021, 8, 27-32. | 0.8 | 0 |