

Michael Stephen Scurrall

List of Publications by Year in descending order

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151
papers

5,229
citations

87723

38
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110170

64
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158
all docs

158
docs citations

158
times ranked

5294
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxidative coupling of methane using oxide catalysts. <i>Chemical Society Reviews</i> , 1989, 18, 251.	18.7	360
2	Silver nanoparticle catalysed redox reaction: An electron relay effect. <i>Materials Chemistry and Physics</i> , 2006, 97, 283-287.	2.0	242
3	Gas Conversion to Liquid Fuels and Chemicals: The Methanol Route—Catalysis and Processes Development. <i>Catalysis Reviews - Science and Engineering</i> , 2009, 51, 1-145.	5.7	162
4	Hydroxyapatite as a novel support for gold and ruthenium catalysts Behaviour in the water gas shift reaction. <i>Applied Catalysis A: General</i> , 2003, 245, 137-147.	2.2	137
5	Polymerization of Aniline by Auric Acid: Formation of Gold Decorated Polyaniline Nanoballs. <i>Macromolecular Rapid Communications</i> , 2005, 26, 232-235.	2.0	135
6	Low temperature reductive pretreatment of Au/Fe ₂ O ₃ catalysts, TPR/TPO studies and behaviour in the water-gas shift reaction. <i>Applied Catalysis A: General</i> , 2004, 258, 241-249.	2.2	133
7	Activation of Au/TiO ₂ Catalyst for CO Oxidation. <i>Journal of Physical Chemistry B</i> , 2005, 109, 10319-10326.	1.2	128
8	Self-assembly of silver nanoparticles in a polymer solvent: formation of a nanochain through nanoscale soldering. <i>Materials Chemistry and Physics</i> , 2005, 90, 221-224.	2.0	126
9	Fabrication of a Metal Nanoparticles and Polymer Nanofibers Composite Material by an in Situ Chemical Synthetic Route. <i>Langmuir</i> , 2005, 21, 7964-7967.	1.6	116
10	In situ synthesis of copper nanoparticles and poly(o-toluidine): A metal-polymer composite material. <i>European Polymer Journal</i> , 2006, 42, 670-675.	2.6	98
11	Factors affecting the selectivity of the aromatization of light alkanes on modified ZSM-5 catalysts. <i>Applied Catalysis</i> , 1988, 41, 89-98.	1.1	95
12	Hydrogenation of acetylene in excess ethylene on an alumina supported palladium catalyst in a static system. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1977, 73, 632.	1.0	80
13	Aromatization of n-hexane over Ga, Mo and Zn modified H-ZSM-5 zeolite catalysts. <i>Catalysis Communications</i> , 2015, 72, 49-52.	1.6	80
14	Conversion of methane-ethylene mixtures over sulphate-treated zirconia catalysts. <i>Applied Catalysis</i> , 1987, 34, 109-117.	1.1	72
15	The effect of calcination temperature on the adsorption of nitric oxide on Au-TiO ₂ : Drifts studies. <i>Applied Catalysis A: General</i> , 2005, 291, 98-115.	2.2	69
16	Conversion of synthesis gas to dimethyl ether over bifunctional catalytic systems. <i>Industrial & Engineering Chemistry Research</i> , 1991, 30, 2372-2378.	1.8	67
17	CO oxidation over gold nanoparticles supported on TiO ₂ and TiO ₂ -ZnO: catalytic activity effects due to surface modification of TiO ₂ with ZnO. <i>Applied Catalysis A: General</i> , 2003, 253, 527-536.	2.2	67
18	Conjugated polymer stabilized palladium nanoparticles as a versatile catalyst for Suzuki cross-coupling reactions for both aryl and heteroaryl bromide systems. <i>Catalysis Science and Technology</i> , 2011, 1, 308.	2.1	67

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19	Light alkanes aromatization to BTX over Zn-ZSM-5 catalysts. Applied Catalysis A: General, 2002, 235, 265-272.	2.2	64
20	CO oxidation over titanate nanotube supported Au: Deactivation due to bicarbonate. Journal of Catalysis, 2009, 261, 94-100.	3.1	63
21	In-situ synthesis of a palladium-polyaniline hybrid catalyst for a Suzuki coupling reaction. Journal of Organometallic Chemistry, 2011, 696, 2206-2210.	0.8	61
22	Oligomerization of Ethene In a Slurry Reactor Using a Nickel(II)-Exchanged Silica-Alumina Catalyst. Journal of Catalysis, 2001, 197, 49-57.	3.1	59
23	Title is missing!. Catalysis Letters, 2003, 90, 1-6.	1.4	59
24	The gold-ruthenium-iron oxide catalytic system for the low temperature water-gas-shift reaction The examination of gold-ruthenium interactions. Applied Catalysis A: General, 2003, 245, 149-158.	2.2	57
25	DRIFTS studies of the interaction of nitric oxide and carbon monoxide on Au-TiO ₂ . Catalysis Today, 2002, 72, 79-87.	2.2	55
26	Reductive routes to stabilized nanogold and relation to catalysis by supported gold. Applied Catalysis A: General, 2005, 292, 76-81.	2.2	55
27	A Basic Approach to Evaluate Methane Partial Oxidation Catalysts. Journal of Catalysis, 1993, 143, 262-274.	3.1	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 ₂ -Au-CdSQDs Ternary Nanoheterostructure: A Promising Visible Light Responsive Photocatalyst for H ₂ Evolution. Inorganic Chemistry, 2017, 56, 12297-12307.	1.9	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.	2.2	49
31	Polyaniline stabilized highly dispersed gold nanoparticle: an in-situ chemical synthesis route. Journal of Materials Science, 2006, 41, 6189-6192.	1.7	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.	2.2	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.	2.2	44
35	Low temperature CO oxidation over gold supported mesoporous Fe-TiO ₂ . Journal of Molecular Catalysis A, 2010, 319, 92-97.	4.8	42
36	Highly stabilized Ag ₂ O-loaded nano TiO ₂ for hydrogen production from glycerol: Water mixtures under solar light irradiation. International Journal of Hydrogen Energy, 2017, 42, 807-820.	3.8	42

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37	Supported liquid-phase hydroformylation catalysts containing rhodium and triphenylphosphine. <i>Journal of Molecular Catalysis</i> , 1979, 6, 405-420.	1.2	41
38	Partial oxidation of methane over samarium and lanthanum oxides: a study of the reaction mechanism. <i>Catalysis Today</i> , 1989, 4, 371-381.	2.2	41
39	Exchange of alkanes with deuterium over γ -alumina. A Brønsted linear free energy relationship. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1975, 71, 903.	1.0	38
40	The influence of gold on the optical properties of sol-gel derived titania. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 396, 70-76.	2.6	38
41	Acetic acid production by selective oxidation of ethanol using Au catalysts supported on various metal oxide. <i>Gold Bulletin</i> , 2009, 42, 321-327.	3.2	38
42	Effect of Pretreatment Variables on the Reaction of Nitric Oxide (NO) with Au/TiO ₂ : DRIFTS Studies. <i>Journal of Physical Chemistry B</i> , 2004, 108, 18254-18260.	1.2	37
43	Redox catalytic property of gold nanoclusters: evidence of an electron-relay effect. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 80, 797-801.	1.1	37
44	Palladium-Polyaniline and Palladium-Polyaniline Derivative Composite Materials. <i>Platinum Metals Review</i> , 2007, 51, 3-15.	1.5	37
45	NAS (novel aluminosilicates) as catalysts for the aromatisation of propane. <i>Catalysis Today</i> , 2002, 71, 429-435.	2.2	36
46	Polymerization of Aniline by Cupric Sulfate: A Facile Synthetic Route for Producing Polyaniline. <i>Journal of Polymer Research</i> , 2007, 13, 397-401.	1.2	36
47	Supported liquid phase hydroformylation catalysts containing rhodium and triphenylphosphine. Effects of additional solvents and kinetics. <i>Journal of Molecular Catalysis</i> , 1981, 12, 179-195.	1.2	34
48	Direct partial oxidation of methane: Effect of the oxidant on the reaction. <i>Applied Catalysis</i> , 1988, 38, 157-165.	1.1	34
49	Cetane number determination of synthetic diesel fuels. <i>Fuel</i> , 1992, 71, 1323-1327.	3.4	34
50	Formation of palladium nanoparticles in poly (o-methoxyaniline) macromolecule fibers: An in-situ chemical synthesis method. <i>European Physical Journal E</i> , 2006, 19, 149-154.	0.7	34
51	Effect of a titania covering on CNTs as support for the Ru catalysed selective CO methanation. <i>Applied Catalysis B: Environmental</i> , 2018, 232, 492-500.	10.8	34
52	Fabrication of a nanostructured gold-polymer composite material. <i>European Physical Journal E</i> , 2006, 20, 347-353.	0.7	33
53	Effects of incorporation of ions into Au/TiO ₂ catalysts for carbon monoxide oxidation. <i>Topics in Catalysis</i> , 2007, 44, 167-172.	1.3	33
54	Optical, microscopic and low temperature electrical property of one-dimensional gold-polyaniline composite networks. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 095409.	1.3	33

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55	Selectivity of a heterogeneous rhodium catalyst for the carbonylation of monohydric alcohols. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1977, 73, 2036.	1.0	32
56	Gold in polyaniline: Recent trends. <i>Gold Bulletin</i> , 2006, 39, 166-174.	3.2	32
57	Simplified single-step synthetic route for the preparation of a highly active gold-based catalyst for CO oxidation. <i>Journal of Molecular Catalysis A</i> , 2004, 215, 103-106.	4.8	31
58	The role of surface O ² in the selective oxidation of methane. <i>Journal of the Chemical Society Chemical Communications</i> , 1987, , 1388.	2.0	30
59	Effect of the metal oxide loading on the activity of silica supported MoO ₃ and V ₂ O ₅ catalysts in the selective partial oxidation of methane. <i>Catalysis Letters</i> , 1993, 18, 283-288.	1.4	30
60	Self-assembly of silver nanoparticles: Formation of a thin silver film in a polymer matrix. <i>Materials Science and Engineering C</i> , 2006, 26, 87-91.	3.8	30
61	Nickel silica-alumina catalysts for ethene oligomerization—control of the selectivity to 1-alkene products. <i>Applied Catalysis A: General</i> , 2003, 245, 43-53.	2.2	29
62	In situ synthesis of a Pd—poly (1,8-diaminonaphthalene) nanocomposite: An efficient catalyst for Heck reactions under phosphine-free conditions. <i>Catalysis Communications</i> , 2010, 12, 116-121.	1.6	29
63	The role of gas phase reaction in the selective oxidation of methane. <i>Journal of the Chemical Society Chemical Communications</i> , 1988, , 253.	2.0	28
64	The selective dissolution of alumina, cobalt and platinum from a calcined spent catalyst using different lixivants. <i>Minerals Engineering</i> , 2005, 18, 801-810.	1.8	28
65	Hydrogen production from glycerol reforming: conventional and green production. <i>Reviews in Chemical Engineering</i> , 2018, 34, 695-726.	2.3	28
66	Designing Oxidation Catalysts: Are We Getting Better?. <i>Cattech</i> , 2003, 7, 90-103.	2.6	27
67	The effect of gold on the phase transitions of titania. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 396, 61-69.	2.6	27
68	On-line deactivation of Au/TiO ₂ for CO oxidation in H ₂ -rich gas streams. <i>Catalysis Today</i> , 2007, 122, 254-259.	2.2	27
69	Activity and selectivity of nickel-exchanged silica-alumina catalysts for the oligomerization of propene and 1-butene into distillate-range products. <i>Applied Catalysis A: General</i> , 2003, 248, 239-248.	2.2	26
70	Directional assembly of polyaniline functionalized gold nanoparticles. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 196225.	0.7	26
71	Hydrophilic behaviour of gold-poly (o-phenylenediamine) hybrid nanocomposite. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007, 140, 166-171.	1.7	25
72	In-situ chemical synthesis route for a fiber shaped gold-polyaniline nanocomposite. <i>Gold Bulletin</i> , 2008, 41, 246-250.	3.2	25

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73	Role of Preparation Techniques in the Activity of Au/TiO ₂ Nanostructures Stabilised on SiO ₂ : CO and Preferential CO Oxidation. <i>Topics in Catalysis</i> , 2009, 52, 912-919.	1.3	25
74	Paramagnetic polyaniline nanospheres. <i>Chemical Physics Letters</i> , 2010, 494, 232-236.	1.2	25
75	Carbonylation of methanol and ethanol on a rhodium-zeolite catalyst. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1978, 74, 2313.	1.0	24
76	Polymer-encapsulated metal nanoparticles: optical, structural, micro-analytical and hydrogenation studies of a composite material. <i>Nanotechnology</i> , 2008, 19, 075708.	1.3	24
77	Thoughts on the use of gold-based catalysts in environmental protection catalysis. <i>Gold Bulletin</i> , 2017, 50, 77-84.	1.1	24
78	Heterogeneous hydroformylation catalysts produced by direct interaction between rhodium complexes and the support. <i>Journal of Molecular Catalysis</i> , 1980, 10, 127-132.	1.2	23
79	Direct observation of thermally activated NO adsorbate species on Au-TiO ₂ : DRIFTS studies. <i>Journal of Molecular Catalysis A</i> , 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. <i>Applied Catalysis A: General</i> , 2002, 223, 29-33.	2.2	21
81	Polymer-stabilized colloidal gold: a convenient method for the synthesis of nanoparticles by a UV-irradiation approach. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 80, 395-398.	1.1	21
82	The effects of boron and silver on the oxygen-free conversion of methane over Mo/H-ZSM-5 catalysts. <i>Journal of Molecular Catalysis A</i> , 2009, 305, 40-46.	4.8	21
83	Dehydroaromatization of methane over Sn-Pt modified Mo/H-ZSM-5 zeolite catalysts: Effect of preparation method. <i>Applied Catalysis A: General</i> , 2015, 503, 218-226.	2.2	21
84	Carbon produced by the catalytic decomposition of methane on nickel: Carbon yields and carbon structure as a function of catalyst properties. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 32, 501-511.	2.1	20
85	Low-Temperature Water-Gas Shift Reaction over Au Supported on Anatase in the Presence of Copper: EXAFS/XANES Analysis of Gold-Copper Ion Mixtures on TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2017, 121, 8812-8823.	1.5	20
86	Observations on an alternative route for the preparation of Rh-zeolites active in the carbonylation of methanol. <i>Journal of Molecular Catalysis</i> , 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. <i>Journal of the Chemical Society Chemical Communications</i> , 1987, , 1862.	2.0	19
88	Methane dehydroaromatization over modified Mn/H-ZSM-5 zeolite catalysts: Effect of tungsten as a secondary metal. <i>Catalysis Communications</i> , 2016, 78, 37-43.	1.6	18
89	Photocatalytic H ₂ production from glycerol-water mixtures over Ni/I ³ -Al ₂ O ₃ and TiO ₂ composite systems. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 15031-15043.	3.8	18
90	Preparation of highly dispersed Pd-nanoparticles in poly-(o-aminophenol) needles: An intimate composite material™. <i>Journal of Materials Science</i> , 2006, 41, 1733-1737.	1.7	17

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91	Metal-Polymer Hybrid Material as a Catalyst for the Heck Coupling Reaction Under Phosphine-Free Conditions. <i>Synthetic Communications</i> , 2011, 41, 3561-3572.	1.1	17
92	Cyanide leaching of gold catalysts. <i>Catalysis Communications</i> , 2015, 67, 87-89.	1.6	17
93	Identification of novel catalysts and conditions for the highly efficient and stable heterogeneous oligomerization of ethylene. <i>Journal of the Chemical Society Chemical Communications</i> , 1991, , 126.	2.0	16
94	Palladium Nanoparticles in Poly(ω -phenylenediamine): Synthesis of a Nanostructured Metal-Polymer Composite Material. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2006, 43, 1469-1476.	1.2	16
95	Potassium Titanate: An Alternative Support for Gold Catalyzed Carbon Monoxide Oxidation?. <i>Catalysis Letters</i> , 2008, 123, 193-197.	1.4	16
96	Carbon Surface Modifications by Plasma for Catalyst Support and Electrode Materials Applications. <i>Topics in Catalysis</i> , 2017, 60, 823-830.	1.3	16
97	Solar photocatalytic glycerol reforming for hydrogen production over Ternary Cu/THS/graphene photocatalyst: Effect of Cu and graphene loading. <i>Renewable Energy</i> , 2020, 156, 84-97.	4.3	16
98	Preparation and characterization of a conjugated polymer and copper nanoparticle composite material: A chemical synthesis route. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005, 123, 181-186.	1.7	15
99	The effect of protonation and oxidation state of polyaniline on the stability of gold nanoparticles. <i>European Polymer Journal</i> , 2016, 82, 300-306.	2.6	15
100	Achieving nano-gold stability through rational design. <i>Chemical Science</i> , 2016, 7, 6815-6823.	3.7	15
101	Polymerization of ethylene on chromium oxide catalysts. Part 4. Infra-red study of the adsorption of nitric oxide and ammonia on active catalyst. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1973, 69, 660.	1.0	14
102	Metathesis of fatty esters derived from South African sunflower oil. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 1990, 67, 362-363.	0.8	14
103	Enhanced photocatalytic hydrogen formation over Fe-loaded TiO ₂ and g-C ₃ N ₄ composites from mixed glycerol and water by solar irradiation. <i>Journal of Renewable and Sustainable Energy</i> , 2018, 10, .	0.8	14
104	Formation and surface reactions of oxide supported rhodium carbonyl complexes. <i>Journal of Molecular Catalysis</i> , 1980, 10, 57-67.	1.2	13
105	Synthesis of gold-polyaniline nanocomposites by complexation. <i>Polymers for Advanced Technologies</i> , 2016, 27, 1195-1203.	1.6	13
106	CO Oxidation over Anatase TiO ₂ Supported Au: Effect of Nitrogen Doping. <i>Catalysis Letters</i> , 2009, 130, 341-349.	1.4	11
107	Light alkane aromatization over modified Zn-ZSM-5 catalysts: characterization of the catalysts by hydrogen/deuterium isotope exchange. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2011, 104, 303-309.	0.8	11
108	Evidence for the enhancement of the catalytic action of Zn-ZSM-5-based catalysts for propane aromatization using microwave radiation. <i>Catalysis Communications</i> , 2002, 3, 253-256.	1.6	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. <i>Catalysis Letters</i> , 2004, 95, 87-91.	1.4	10
110	A novel synthesis route for a gold-polymer soft composite material. <i>Physica Status Solidi - Rapid Research Letters</i> , 2007, 1, R1-R3.	1.2	10
111	Low-pressure methanol/ dimethylether synthesis from syngas on gold-based catalysts. <i>Gold Bulletin</i> , 2007, 40, 219-224.	3.2	10
112	Cold plasmas in the modification of catalysts. <i>Reviews in Chemical Engineering</i> , 2018, 34, 201-213.	2.3	10
113	Synthesis of highly oriented gold thin films by a UV-irradiation route. <i>EPJ Applied Physics</i> , 2005, 29, 45-49.	0.3	9
114	Optical and micro-analytical study of a copper-conjugated polymer composite. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 2263-2269.	0.8	9
115	Self Assembly of the Metal Nanoparticles: Formation of the Highly Oriented, Core-Shell Type, Bimetallic Gold-Silver Film. <i>Journal of Nanoparticle Research</i> , 2007, 9, 323-330.	0.8	9
116	Conversion of Synthesis Gas to Dimethylether Over Gold-based Catalysts. <i>Topics in Catalysis</i> , 2012, 55, 771-781.	1.3	9
117	Catalytic activity of gold-perovskite catalysts in the oxidation of carbon monoxide. <i>Gold Bulletin</i> , 2016, 49, 35-44.	1.1	9
118	Effect of Fe on the activity of Au/FeO _x -TiO ₂ catalysts for CO oxidation. <i>Gold Bulletin</i> , 2016, 49, 9-20.	1.1	9
119	Microwave treatment: a facile method for the solid state modification of potassium-promoted iron on silica Fischer-Tropsch catalysts. <i>RSC Advances</i> , 2016, 6, 22222-22231.	1.7	9
120	Selective CO Methanation Over Ru Supported on Carbon Spheres: The Effect of Carbon Functionalization on the Reverse Water Gas Shift Reaction. <i>Catalysis Letters</i> , 2018, 148, 3502-3513.	1.4	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. <i>Minerals Engineering</i> , 2003, 16, 1013-1017.	1.8	8
123	Catalytic activity of a soft composite material: Nanoparticle location-activity relationship. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008, 150, 43-49.	1.7	8
124	Prospects for Lower Carbon Routes for Conversion of Natural Gas to Energy. <i>Energy & Fuels</i> , 2017, 31, 6374-6377.	2.5	8
125	Effects of loading on structure of Rh zeolite catalysts and their activity for methanol carbonylation. <i>Zeolites</i> , 1983, 3, 261-270.	0.9	7
126	Selective oxidation of methane in the presence of NO: new evidence on the reaction mechanism. <i>Journal of the Chemical Society Chemical Communications</i> , 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. <i>Catalysis Letters</i> , 1990, 5, 301-308.	1.4	7
128	Effects of preparation methods on gold/titania catalysts for CO oxidation. <i>Journal of Molecular Catalysis A</i> , 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. <i>Polymers for Advanced Technologies</i> , 2016, 27, 759-764.	1.6	7
130	Study of Carbon Monoxide Hydrogenation Over Supported Au Catalysts. <i>Studies in Surface Science and Catalysis</i> , 2007, 163, 141-151.	1.5	6
131	Exchange reactions of benzene and alkylbenzenes with deuterium on alumina and magnesium oxide. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1976, 72, 818.	1.0	5
132	Selective oxidation of methane in the presence of nitric oxide: comments on the reaction mechanism. <i>Catalysis Today</i> , 1990, 6, 399-407.	2.2	5
133	Gas phase hydrogenation reaction using a Ti^{IV} -metal nanoparticle-polymer composite catalyst. <i>Journal of Materials Science</i> , 2008, 43, 6289-6295.	1.7	5
134	Formation of metal nanoparticles in a polymer nanofiber: a hybrid material for gas-phase catalytic reactions. <i>Smart Materials and Structures</i> , 2008, 17, 045013.	1.8	5
135	Evidence for carbanionic intermediates during exchange between butanes and deuterium on alumina. <i>Journal of the Chemical Society Chemical Communications</i> , 1973, , 799a.	2.0	4
136	Reactions of 3,3-dimethylbut-1-ene with deuterium or deuterium oxide on oxide catalysts. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1976, 72, 2512.	1.0	4
137	Characteristics of gold-zeolite Y catalysts in CO oxidation and ethylene hydrogenation. <i>Studies in Surface Science and Catalysis</i> , 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. <i>Journal of Porous Materials</i> , 2020, 27, 165-177.	1.3	4
139	Microwave Radiation-Induced Increases in Catalytic Performance: The Effect of Bedshape During Irradiation. <i>Current Microwave Chemistry</i> , 2017, 4, .	0.2	4
140	Microwave-induced Solid-state Interactions for the Synthesis of Fischer-Tropsch Catalysts. <i>Current Microwave Chemistry</i> , 2016, 03, 1-1.	0.2	4
141	Stability of gold particles in NaY-type zeolites: Promotional effects of co-exchanged metal cations. <i>Microporous and Mesoporous Materials</i> , 2017, 241, 52-57.	2.2	3
142	PROPENE OLIGOMERIZATION OVER $\text{TiO}_2\text{-ZrO}_2$ CATALYSTS. <i>Chemistry Letters</i> , 1984, 13, 1781-1782.	0.7	2
143	The Conversion of Methanol into Higher Hydrocarbons Catalyzed by Gold. <i>ChemCatChem</i> , 2016, 8, 3118-3120.	1.8	2
144	The effect of microwave irradiation on heterogeneous catalysts for Fischer-Tropsch synthesis. <i>Reviews in Chemical Engineering</i> , 2019, .	2.3	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 Fischer-Tropsch synthesis. Reaction Chemistry and Engineering, 2022, 7, 1307-1314.	1.9	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.	0.1	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.	0.2	0