

Chang-jun Liu

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.

214
papers

11,734
citations

62
h-index

100
g-index

232
ext. papers

13,582
ext. citations

7
avg, IF

6.84
L-index

#	Paper	IF	Citations
214	Improvement in the activity of Ni/In ₂ O ₃ with the addition of ZrO ₂ for CO ₂ hydrogenation to methanol. <i>Catalysis Communications</i> , 2022 , 162, 106386	3.2	3
213	Synergistic effect of the metal-support interaction and interfacial oxygen vacancy for CO ₂ hydrogenation to methanol over Ni/In ₂ O ₃ catalyst: A theoretical study. <i>Journal of Energy Chemistry</i> , 2022 , 65, 623-629	12	13
212	Enhanced CO ₂ conversion by frosted dielectric surface with ZrO ₂ coating in a dielectric barrier discharge reactor. <i>Journal of CO₂ Utilization</i> , 2022 , 61, 102045	7.6	1
211	Preparation and characterization of an edible metal-organic framework/rice wine residue composite. <i>RSC Advances</i> , 2022 , 12, 14639-14643	3.7	
210	Structural effect of Ni/TiO on CO methanation: improved activity and enhanced stability.. <i>RSC Advances</i> , 2021 , 12, 721-727	3.7	2
209	Highly Active Ir/In ₂ O ₃ Catalysts for Selective Hydrogenation of CO ₂ to Methanol: Experimental and Theoretical Studies. <i>ACS Catalysis</i> , 2021 , 11, 4036-4046	13.1	30
208	CO ₂ cycloaddition over ionic liquid immobilized hybrid zeolitic imidazolate frameworks: Effect of Lewis acid/base sites. <i>Chemical Engineering Science</i> , 2021 , 233, 116429	4.4	15
207	Theoretical Study of Selective Hydrogenation of CO ₂ to Methanol over Pt ₄ /In ₂ O ₃ Model Catalyst. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 10926-10936	3.8	9
206	The feasibility study of the indium oxide supported silver catalyst for selective hydrogenation of CO ₂ to methanol. <i>Green Energy and Environment</i> , 2021 ,	5.7	11
205	CO ₂ hydrogenation to methanol over Rh/In ₂ O ₃ catalyst. <i>Catalysis Today</i> , 2021 , 365, 341-347	5.3	35
204	Electron-induced rapid crosslinking in supramolecular metal-peptide assembly and chemically responsive disaggregation for catalytic application. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 376-387	11.3	2
203	Highly active Ni/CeO ₂ catalyst for CO ₂ methanation: Preparation and characterization. <i>Applied Catalysis B: Environmental</i> , 2021 , 282, 119581	21.8	61
202	The structural effect of Ni/ZrO ₂ on the formation and the reactivity of the carbon formed from methane decomposition. <i>Chemical Engineering Science: X</i> , 2021 , 11, 100104	1.1	
201	Highly active and coke resistant Ni/CeZrO ₂ catalyst prepared by cold plasma decomposition for CO ₂ reforming of methane. <i>Journal of CO₂ Utilization</i> , 2021 , 51, 101647	7.6	4
200	Water: A promoter of ammonia selective catalytic reduction over copper-exchanged LTA zeolites. <i>Applied Catalysis B: Environmental</i> , 2021 , 294, 120244	21.8	7
199	Experimental and theoretical studies of CO ₂ hydrogenation to methanol on Ru/In ₂ O ₃ . <i>Journal of CO₂ Utilization</i> , 2021 , 53, 101720	7.6	11
198	Plasmonic wooden flower for highly efficient solar vapor generation. <i>Nano Energy</i> , 2020 , 76, 104998	17.1	51

197	PST-24: A Zeolite with Varying Intracrystalline Channel Dimensionality. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17691-17696	16.4	8
196	A highly active Pt/In ₂ O ₃ catalyst for CO ₂ hydrogenation to methanol with enhanced stability. <i>Green Chemistry</i> , 2020 , 22, 5059-5066	10	46
195	Millimeter-scale magnetic spherical metal-organic framework core-shell structured composites for recyclable catalytic applications. <i>Microporous and Mesoporous Materials</i> , 2020 , 300, 110152	5.3	8
194	Catalytic decomposition of methane by two-step cascade catalytic process: Simultaneous production of hydrogen and carbon nanotubes. <i>Chemical Engineering Research and Design</i> , 2020 , 163, 96-106	5.5	6
193	A Highly Active Au/In ₂ O ₃ -ZrO ₂ Catalyst for Selective Hydrogenation of CO ₂ to Methanol. <i>Catalysts</i> , 2020 , 10, 1360	4	14
192	Hydrogenation of CO ₂ to Methanol on a Au@In ₂ O ₃ Catalyst. <i>ACS Catalysis</i> , 2020 , 10, 11307-11317	13.1	61
191	PST-24: A Zeolite with Varying Intracrystalline Channel Dimensionality. <i>Angewandte Chemie</i> , 2020 , 132, 17844-17849	3.6	2
190	The metal-organic framework UiO-66 with missing-linker defects: A highly active catalyst for carbon dioxide cycloaddition. <i>Applied Energy</i> , 2020 , 277, 115560	10.7	27
189	Synthesis, characterization and application of defective metal-organic frameworks: current status and perspectives. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 21526-21546	13	54
188	Density functional theoretical study of Au ₄ /In ₂ O ₃ catalyst for CO ₂ hydrogenation to methanol: The strong metal-support interaction and its effect. <i>Journal of CO₂ Utilization</i> , 2020 , 42, 101313	7.6	19
187	Enhanced cycloaddition of CO ₂ to epichlorohydrin over zeolitic imidazolate frameworks with mixed linkers under solventless and co-catalyst-free condition. <i>Catalysis Today</i> , 2020 , 339, 337-343	5.3	29
186	Preparation and investigation of Pd doped Cu catalysts for selective hydrogenation of acetylene. <i>Frontiers of Chemical Science and Engineering</i> , 2020 , 14, 522-533	4.5	5
185	Three-dimensional printing of porous carbon structures with tailorable pore sizes. <i>Catalysis Today</i> , 2020 , 347, 2-9	5.3	14
184	Selective hydrogenation of CO ₂ to methanol over Ni/In ₂ O ₃ catalyst. <i>Journal of Energy Chemistry</i> , 2020 , 50, 409-415	12	77
183	Plasmon Based Double-Layer Hydrogel Device for a Highly Efficient Solar Vapor Generation. <i>Advanced Functional Materials</i> , 2019 , 29, 1901312	15.6	88
182	Bifunctional catalysts for the hydroisomerization of n-alkanes: the effects of metal/acid balance and textural structure. <i>Catalysis Science and Technology</i> , 2019 , 9, 4162-4187	5.5	47
181	Improvement in the activity of Ni/ZrO ₂ by cold plasma decomposition for dry reforming of methane. <i>Catalysis Communications</i> , 2019 , 128, 105720	3.2	19
180	N-doped porous carbon material prepared via direct ink writing for the removal of methylene blue. <i>Diamond and Related Materials</i> , 2019 , 95, 121-126	3.5	7

179	A Combined experimental and theoretical study of the accelerated hydrogen evolution kinetics over wide pH range on porous transition metal doped tungsten phosphide electrocatalysts. <i>Applied Catalysis B: Environmental</i> , 2019 , 251, 162-167	21.8	39
178	Enhancing Activity and Reducing Cost for Electrochemical Reduction of CO by Supporting Palladium on Metal Carbides. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6271-6275	16.4	87
177	Effect of decomposition of catalyst precursor on Ni/CeO ₂ activity for CO methanation. <i>Chinese Journal of Catalysis</i> , 2019 , 40, 495-503	11.3	16
176	Green chemical engineering in China. <i>Reviews in Chemical Engineering</i> , 2019 , 35, 995-1077	5	1
175	Frontiers in plasma catalysis (ISPCEM 2018). <i>Catalysis Today</i> , 2019 , 337, 1-2	5.3	1
174	On the reactivity of carbon formed from CO CVD over Ni(1 1 1)/TiO ₂ . <i>Chemical Engineering Science</i> , 2019 , 194, 22-28	4.4	5
173	Structural effect of Ni/ZrO ₂ catalyst on CO ₂ methanation with enhanced activity. <i>Applied Catalysis B: Environmental</i> , 2019 , 244, 159-169	21.8	217
172	Ni/ZrO ₂ by dielectric barrier discharge plasma decomposition with improved activity and enhanced coke resistance for CO methanation. <i>Catalysis Today</i> , 2019 , 334, 215-222	5.3	16
171	Catalyst Preparation with Plasmas: How Does It Work?. <i>ACS Catalysis</i> , 2018 , 8, 2093-2110	13.1	210
170	A highly selective Cr/ZrO ₂ catalyst for the reverse water-gas shift reaction prepared from simulated Cr-containing wastewater by a photocatalytic deposition process with ZrO ₂ . <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 6761-6770	6.8	8
169	Understanding the Role of Functional Groups in Polymeric Binder for Electrochemical Carbon Dioxide Reduction on Gold Nanoparticles. <i>Advanced Functional Materials</i> , 2018 , 28, 1804762	15.6	44
168	Effective removal of the protective ligands from Au nanoclusters by ambient pressure nonthermal plasma treatment for CO oxidation. <i>Chinese Journal of Catalysis</i> , 2018 , 39, 929-936	11.3	12
167	L-Phenylalanine-Templated Platinum Catalyst with Enhanced Performance for Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 21321-21327	9.5	12
166	Highly Active and Stable Pt-Pd Alloy Catalysts Synthesized by Room-Temperature Electron Reduction for Oxygen Reduction Reaction. <i>Advanced Science</i> , 2017 , 4, 1600486	13.6	64
165	The room temperature electron reduction for the preparation of silver nanoparticles on cotton with high antimicrobial activity. <i>Carbohydrate Polymers</i> , 2017 , 161, 270-276	10.3	36
164	Co ₃ O ₄ /HZSM-5 catalysts for methane combustion: The effect of preparation methodologies. <i>Catalysis Today</i> , 2017 , 297, 219-227	5.3	25
163	Peptide-templated noble metal catalysts: syntheses and applications. <i>Chemical Science</i> , 2017 , 8, 3310-3324	9.4	60
162	Recent Advances in Plasma Catalysis (ISPCEM 2016). <i>Topics in Catalysis</i> , 2017 , 60, 797-798	2.3	2

161	A comprehensive review of Pt electrocatalysts for the oxygen reduction reaction: Nanostructure, activity, mechanism and carbon support in PEM fuel cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1808-1825	13.8	543
160	Three-dimensional Printing for Catalytic Applications: Current Status and Perspectives. <i>Advanced Functional Materials</i> , 2017 , 27, 1701134	15.6	120
159	CO ₂ hydrogenation to methanol over Pd/In ₂ O ₃ : effects of Pd and oxygen vacancy. <i>Applied Catalysis B: Environmental</i> , 2017 , 218, 488-497	21.8	265
158	Characterization and Application of Au Nanoparticle/Agarose Composite Film Fabricated by Room Temperature Electron Reduction. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2017 , 33, 435-440	3.8	3
157	Nanoparticle/Metal-Organic Framework Composites for Catalytic Applications: Current Status and Perspective. <i>Molecules</i> , 2017 , 22,	4.8	75
156	Reverse water gas shift over In ₂ O ₃ /CeO ₂ catalysts. <i>Catalysis Today</i> , 2016 , 259, 402-408	5.3	57
155	Porous MS ₂ /MO ₂ (M = W, Mo) Nanorods as Efficient Hydrogen Evolution Reaction Catalysts. <i>ACS Catalysis</i> , 2016 , 6, 6585-6590	13.1	67
154	Floating silver film: A flexible surface-enhanced Raman spectroscopy substrate for direct liquid phase detection at gas-liquid interfaces. <i>Nano Research</i> , 2016 , 9, 1148-1158	10	25
153	Recent progresses in the size and structure control of MOF supported noble metal catalysts. <i>Catalysis Today</i> , 2016 , 263, 61-68	5.3	39
152	Plasma methods for preparing green catalysts: Current status and perspective. <i>Chinese Journal of Catalysis</i> , 2016 , 37, 340-348	11.3	87
151	Preparation of Floating Au/PVP Film on Water for a Green and Rapid Extraction of Gold Ion. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 3255-3260	8.3	17
150	Highly active and stable Pt (111) catalysts synthesized by peptide assisted room temperature electron reduction for oxygen reduction reaction. <i>Nano Energy</i> , 2016 , 25, 26-33	17.1	51
149	Effect of the structure of Ni/TiO ₂ catalyst on CO ₂ methanation. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 22017-22025	6.7	110
148	Steam reforming of methane over Ni/SiO ₂ catalyst with enhanced coke resistance at low steam to methane ratio. <i>Catalysis Today</i> , 2015 , 256, 130-136	5.3	78
147	Mechanism of template removal for the synthesis of molecular sieves using dielectric barrier discharge. <i>Catalysis Today</i> , 2015 , 256, 137-141	5.3	22
146	Peptide Self-Assembled Biofilm with Unique Electron Transfer Flexibility for Highly Efficient Visible-Light-Driven Photocatalysis. <i>ACS Nano</i> , 2015 , 9, 11258-65	16.7	60
145	Hydrogenation of CO ₂ to methanol over In ₂ O ₃ catalyst. <i>Journal of CO₂ Utilization</i> , 2015 , 12, 1-6	7.6	161
144	Improved activity of Ni/MgAl ₂ O ₄ for CO ₂ methanation by the plasma decomposition. <i>Journal of Energy Chemistry</i> , 2015 , 24, 655-659	12	76

143	Preparation and application of iron oxide/graphene based composites for electrochemical energy storage and energy conversion devices: Current status and perspective. <i>Nano Energy</i> , 2015 , 11, 277-293	17.1	118
142	Perspective on CO oxidation over Pd-based catalysts. <i>Catalysis Science and Technology</i> , 2015 , 5, 69-81	5.5	108
141	Preparation of 2D WO ₃ Nanomaterials with Enhanced Catalytic Activities: Current Status and Perspective. <i>ChemBioEng Reviews</i> , 2015 , 2, 335-350	5.2	39
140	Effect of PdIn bimetallic particle formation on CO ₂ reduction over the PdIn/SiO ₂ catalyst. <i>Chemical Engineering Science</i> , 2015 , 135, 193-201	4.4	59
139	Controlled surface properties of Au/ZSM5 catalysts and their effects in the selective oxidation of ethanol. <i>Catalysis Today</i> , 2015 , 256, 153-160	5.3	18
138	Three-dimensional printed acrylonitrile butadiene styrene framework coated with Cu-BTC metal-organic frameworks for the removal of methylene blue. <i>Scientific Reports</i> , 2014 , 4, 5939	4.9	88
137	Templated synthesis of urchin-like zinc oxide particles by micro-combustion. <i>Frontiers of Chemical Science and Engineering</i> , 2014 , 8, 73-78	4.5	5
136	Perspectives on Electron-Assisted Reduction for Preparation of Highly Dispersed Noble Metal Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 3-13	8.3	81
135	Synthesis of AuPd alloyed nanoparticles via room-temperature electron reduction with argon glow discharge as electron source. <i>Nanoscale Research Letters</i> , 2014 , 9, 405	5	18
134	Methanol synthesis from CO ₂ hydrogenation over a Pd ₄ /In ₂ O ₃ model catalyst: A combined DFT and kinetic study. <i>Journal of Catalysis</i> , 2014 , 317, 44-53	7.3	149
133	Preparation and Characterization of Covalent Organic Polymer Supported Palladium Catalysts for Oxidation of CO and Benzyl Alcohol. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 1359-1367	3.9	18
132	Enhanced activity for CO oxidation over WO ₃ nanolamella supported Pt catalyst. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 12860-7	9.5	64
131	Silver nanoparticle aggregates by room temperature electron reduction: preparation and characterization. <i>RSC Advances</i> , 2014 , 4, 63079-63084	3.7	13
130	In ₂ O ₃ as a promising catalyst for CO ₂ utilization: A case study with reverse water gas shift over In ₂ O ₃ 2014 , 4, 140-144		43
129	Argon plasma reduced Pt nanocatalysts supported on carbon nanotube for aqueous phase benzyl alcohol oxidation. <i>Catalysis Today</i> , 2013 , 211, 104-108	5.3	21
128	Enhanced CO oxidation over thermal treated Ag/Cu-BTC. <i>Catalysis Communications</i> , 2013 , 38, 74-76	3.2	19
127	Carbon template removal by dielectric-barrier discharge plasma for the preparation of zirconia. <i>Catalysis Today</i> , 2013 , 211, 156-161	5.3	32
126	Enhanced sulfur resistance of Ni/SiO ₂ catalyst for methanation via the plasma decomposition of nickel precursor. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 12132-8	3.6	30

125	Effect of the catalyst structure on the formation of carbon nanotubes over Ni/MgO catalyst. <i>Diamond and Related Materials</i> , 2013 , 31, 50-57	3.5	24
124	Covalent organic polymer supported palladium catalysts for CO oxidation. <i>Chemical Communications</i> , 2013 , 49, 5633-5	5.8	83
123	Active Oxygen Vacancy Site for Methanol Synthesis from CO ₂ Hydrogenation on In ₂ O ₃ (110): A DFT Study. <i>ACS Catalysis</i> , 2013 , 3, 1296-1306	13.1	355
122	Effect of Catalyst Structure on Growth and Reactivity of Carbon Nanofibers over Ni/MgAl ₂ O ₄ . <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 8182-8188	3.9	31
121	Methanation over Ni/SiO ₂ : Effect of the catalyst preparation methodologies. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 2283-2291	6.7	155
120	One-step fabrication of self-assembled peptide thin films with highly dispersed noble metal nanoparticles. <i>Langmuir</i> , 2013 , 29, 16051-7	4	34
119	Formation of monometallic Au and Pd and bimetallic AuPd nanoparticles confined in mesopores via Ar glow-discharge plasma reduction and their catalytic applications in aerobic oxidation of benzyl alcohol. <i>Journal of Catalysis</i> , 2012 , 289, 105-117	7.3	139
118	Morphologic evolution of Au nanocrystals grown in ionic liquid by plasma reduction. <i>Journal of Colloid and Interface Science</i> , 2012 , 374, 40-4	9.3	20
117	Nanoporous platinum grown on nickel foam by facile plasma reduction with enhanced electro-catalytic performance. <i>Electrochemistry Communications</i> , 2012 , 18, 33-36	5.1	9
116	DFT Study of CO ₂ Adsorption and Hydrogenation on the In ₂ O ₃ Surface. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 7817-7825	3.8	202
115	A DFT study of methanol dehydrogenation on the PdIn(110) surface. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 16660-7	3.6	26
114	The promotion effect of CeO ₂ on CO ₂ adsorption and hydrogenation over Ga ₂ O ₃ . <i>Catalysis Today</i> , 2012 , 194, 60-64	5.3	44
113	CO oxidation over graphene supported palladium catalyst. <i>Applied Catalysis B: Environmental</i> , 2012 , 125, 189-196	21.8	192
112	2D-oriented self-assembly of peptides induced by hydrated electrons. <i>Chemistry - A European Journal</i> , 2012 , 18, 14614-7	4.8	24
111	Fabrication of palladium/graphene oxide composite by plasma reduction at room temperature. <i>Nanoscale Research Letters</i> , 2012 , 7, 234	5	25
110	Characterization of ZnO Nanotube Fabricated by the Plasma Decomposition of Zn(OH) ₂ Via Dielectric Barrier Discharge. <i>Plasma Chemistry and Plasma Processing</i> , 2012 , 32, 201-209	3.6	22
109	Carbon formation and steam reforming of methane on silica supported nickel catalysts. <i>Catalysis Communications</i> , 2012 , 19, 61-65	3.2	55
108	Influence of "glow discharge plasma" as an external stimulus on the self-assembly, morphology and binding affinity of gold nanoparticle-streptavidin conjugates. <i>International Journal of Molecular Sciences</i> , 2012 , 13, 6534-47	6.3	2

107	Hydrogen Adsorption on Ga ₂ O ₃ Surface: A Combined Experimental and Computational Study. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 10140-10146	3.8	45
106	Synthesis of monodisperse gold nanoparticles in ionic liquid by applying room temperature plasma. <i>Materials Letters</i> , 2011 , 65, 353-355	3.3	42
105	Surface Science Studies on Cobalt Fischer-Tropsch Catalysts. <i>ChemCatChem</i> , 2011 , 3, 551-559	5.2	38
104	Progresses in the Preparation of Coke Resistant Ni-based Catalyst for Steam and CO ₂ Reforming of Methane. <i>ChemCatChem</i> , 2011 , 3, 529-541	5.2	457
103	Cu ₃ (BTC) ₂ : CO oxidation over MOF based catalysts. <i>Chemical Communications</i> , 2011 , 47, 2167-9	5.8	116
102	Amorphization of Metal-Organic Framework MOF-5 by Electrical Discharge. <i>Plasma Chemistry and Plasma Processing</i> , 2011 , 31, 499-506	3.6	17
101	Preparation and characterization of SBA-15 supported Pd catalyst for CO oxidation. <i>Applied Catalysis B: Environmental</i> , 2011 , 106, 672-680	21.8	85
100	Preparation and characterization of Co/Rh bimetallic model catalysts: From thin films to dispersed clusters. <i>Applied Catalysis A: General</i> , 2011 , 391, 342-349	5.1	11
99	Preparation and characterization of nanomaterials for sustainable energy production. <i>ACS Nano</i> , 2010 , 4, 5517-26	16.7	146
98	Facile and fast template removal from mesoporous MCM-41 molecular sieve using dielectric-barrier discharge plasma. <i>Catalysis Communications</i> , 2010 , 11, 551-554	3.2	41
97	Promotion effects of Ga ₂ O ₃ on CO ₂ adsorption and conversion over a SiO ₂ -supported Ni catalyst. <i>Energy and Environmental Science</i> , 2010 , 3, 1322	35.4	70
96	Effects of hydration and oxygen vacancy on CO ₂ adsorption and activation on beta-Ga ₂ O ₃ (100). <i>Langmuir</i> , 2010 , 26, 5551-8	4	104
95	Development of Coke Resistant Ni Catalysts for CO ₂ Reforming of Methane via Glow Discharge Plasma Treatment. <i>ACS Symposium Series</i> , 2010 , 175-180	0.4	4
94	Effect of reduction method on the performance of Pd catalysts supported on activated carbon for the selective oxidation of glucose. <i>Science China Chemistry</i> , 2010 , 53, 1598-1602	7.9	8
93	Template Removal from ZSM-5 Zeolite Using Dielectric-Barrier Discharge Plasma. <i>Catalysis Letters</i> , 2010 , 135, 241-245	2.8	30
92	Effect of surface hydroxyls on selective CO ₂ hydrogenation over Ni ₄ /Al ₂ O ₃ : A density functional theory study. <i>Journal of Catalysis</i> , 2010 , 272, 227-234	7.3	141
91	Fabrication of CuO nanofibers via the plasma decomposition of Cu(OH) ₂ . <i>Materials Letters</i> , 2009 , 63, 188-190	3.3	28
90	Characterization of CuO-ZnO Catalyst Prepared by Decomposition of Carbonates Using Dielectric-Barrier Discharge Plasma. <i>Catalysis Letters</i> , 2009 , 129, 493-498	2.8	25

89	Characterization of Silica Supported Nickel Catalyst for Methanation with Improved Activity by Room Temperature Plasma Treatment. <i>Catalysis Letters</i> , 2009 , 133, 112-118	2.8	30
88	CO ₂ adsorption and activation over γ-Al ₂ O ₃ -supported transition metal dimers: A density functional study. <i>Catalysis Today</i> , 2009 , 147, 68-76	5.3	87
87	Al-MCM-41 supported palladium catalyst for methane combustion: Effect of the preparation methodologies. <i>Applied Catalysis B: Environmental</i> , 2009 , 90, 570-577	21.8	46
86	Size control of carbon black-supported platinum nanoparticles via novel plasma reduction. <i>Catalysis Communications</i> , 2009 , 10, 959-962	3.2	23
85	Effect of Pt Clusters on Methanol Adsorption and Dissociation over Perfect and Defective Anatase TiO ₂ (101) Surface. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 20674-20682	3.8	22
84	Size-controlled synthesis of colloidal gold nanoparticles at room temperature under the influence of glow discharge. <i>Nanoscale Research Letters</i> , 2009 , 5, 124-9	5	68
83	Carbon dioxide reforming of methane over glow discharge plasma-reduced Ir/Al ₂ O ₃ catalyst. <i>Catalysis Communications</i> , 2008 , 9, 1558-1562	3.2	56
82	Adsorption and protonation of CO ₂ on partially hydroxylated gamma-Al ₂ O ₃ surfaces: a density functional theory study. <i>Langmuir</i> , 2008 , 24, 12410-9	4	95
81	Synthesis and Characterization of Noble Metal (Pd, Pt, Au, Ag) Nanostructured Materials Confined in the Channels of Mesoporous SBA-15. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 19818-19824	3.8	147
80	Selective oxidation of glucose to gluconic acid over argon plasma reduced Pd/Al ₂ O ₃ . <i>Green Chemistry</i> , 2008 , 10, 1318	10	70
79	Preparation and characterization of coke resistant Ni/SiO ₂ catalyst for carbon dioxide reforming of methane. <i>Journal of Power Sources</i> , 2008 , 176, 46-53	8.9	131
78	Temperature-programmed Studies of Coke Resistant Ni Catalyst for Carbon Dioxide Reforming of Methane. <i>Catalysis Letters</i> , 2008 , 123, 96-101	2.8	22
77	Enhanced Activity of Bimetallic Pd-Based Catalysts for Methane Combustion. <i>Catalysis Letters</i> , 2008 , 125, 130-133	2.8	14
76	Modification of acidity of Mo-Fe/HZSM-5 zeolite via argon plasma treatment. <i>Frontiers of Chemical Engineering in China</i> , 2008 , 2, 55-58		2
75	Stability of Ionic Liquids under the Influence of Glow Discharge Plasmas. <i>Plasma Processes and Polymers</i> , 2008 , 5, 239-245	3.4	39
74	Structure and reactivity of plasma treated Ni/Al ₂ O ₃ catalyst for CO ₂ reforming of methane. <i>Applied Catalysis B: Environmental</i> , 2008 , 81, 132-140	21.8	229
73	The cleavage of the methane CH bond over PdO/H-BEA: A density functional theory study. <i>Applied Surface Science</i> , 2008 , 254, 5587-5593	6.7	9
72	Stability of Pt particles on ZrO ₂ support during partial oxidation of methane: DRIFT studies of adsorbed CO. <i>Journal of Molecular Catalysis A</i> , 2008 , 282, 67-73		10

71	CO ₂ reforming of methane over argon plasma reduced Rh/Al ₂ O ₃ catalyst: a case study of alternative catalyst reduction via non-hydrogen plasmas. <i>Green Chemistry</i> , 2007 , 9, 554	10	61
70	Effect of Surface Oxygen Vacancy on Pt Cluster Adsorption and Growth on the Defective Anatase TiO ₂ (101) Surface. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 16397-16404	3.8	49
69	Hydrogen Storage on Carbon Doped with Platinum Nanoparticles Using Plasma Reduction. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 8277-8281	3.9	56
68	Carbon nanotube formation over plasma reduced Pd/HZSM-5. <i>Diamond and Related Materials</i> , 2007 , 16, 229-235	3.5	19
67	Stability test and EXAFS characterization of plasma prepared Pd/HZSM-5 catalyst for methane combustion. <i>Applied Surface Science</i> , 2007 , 254, 1506-1510	6.7	13
66	Pathways for steam reforming of dimethyl ether under cold plasma conditions: A DFT study. <i>Fuel</i> , 2007 , 86, 2300-2307	7.1	22
65	DFT study on pathways of partial oxidation of DME under cold plasma conditions. <i>Fuel Processing Technology</i> , 2007 , 88, 967-976	7.2	15
64	Hydrogen production from partial oxidation of dimethyl ether using corona discharge plasma. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 958-964	6.7	32
63	Hydrogen production from dimethyl ether using corona discharge plasma. <i>Journal of Power Sources</i> , 2007 , 163, 653-657	8.9	22
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42	Modification of starch by glow discharge plasma. <i>Carbohydrate Polymers</i> , 2004 , 55, 23-26	10.3	84
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