

# Chang-jun Liu

## List of Publications by Citations

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232  
ext. papers

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#	Paper	IF	Citations
214	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> , <b>2017</b> , 5, 1808-1825	13.1	543
213	Progresses in the Preparation of Coke Resistant Ni-based Catalyst for Steam and CO <sub>2</sub> Reforming of Methane. <i>ChemCatChem</i> , <b>2011</b> , 3, 529-541	5.2	457
212	Active Oxygen Vacancy Site for Methanol Synthesis from CO <sub>2</sub> Hydrogenation on In <sub>2</sub> O <sub>3</sub> (110): A DFT Study. <i>ACS Catalysis</i> , <b>2013</b> , 3, 1296-1306	13.1	355
211	CO <sub>2</sub> hydrogenation to methanol over Pd/In <sub>2</sub> O <sub>3</sub> : effects of Pd and oxygen vacancy. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 218, 488-497	21.8	265
210	Catalyst preparation using plasma technologies. <i>Catalysis Today</i> , <b>2002</b> , 72, 173-184	5.3	250
209	Structure and reactivity of plasma treated Ni/Al <sub>2</sub> O <sub>3</sub> catalyst for CO <sub>2</sub> reforming of methane. <i>Applied Catalysis B: Environmental</i> , <b>2008</b> , 81, 132-140	21.8	229
208	Structural effect of Ni/ZrO <sub>2</sub> catalyst on CO <sub>2</sub> methanation with enhanced activity. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 244, 159-169	21.8	217
207	Catalyst Preparation with Plasmas: How Does It Work?. <i>ACS Catalysis</i> , <b>2018</b> , 8, 2093-2110	13.1	210
206	DFT Study of CO <sub>2</sub> Adsorption and Hydrogenation on the In <sub>2</sub> O <sub>3</sub> Surface. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 7817-7825	3.8	202
205	CO oxidation over graphene supported palladium catalyst. <i>Applied Catalysis B: Environmental</i> , <b>2012</b> , 125, 189-196	21.8	192
204	Direct Conversion of Methane and Carbon Dioxide to Higher Hydrocarbons Using Catalytic Dielectric-Barrier Discharges with Zeolites. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2000</b> , 39, 1221-1227	3.9	175
203	Hydrogenation of CO <sub>2</sub> to methanol over In <sub>2</sub> O <sub>3</sub> catalyst. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2015</b> , 12, 1-6	7.6	161
202	Methanation over Ni/SiO <sub>2</sub> : Effect of the catalyst preparation methodologies. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 2283-2291	6.7	155
201	Methanol synthesis from CO <sub>2</sub> hydrogenation over a Pd <sub>4</sub> /In <sub>2</sub> O <sub>3</sub> model catalyst: A combined DFT and kinetic study. <i>Journal of Catalysis</i> , <b>2014</b> , 317, 44-53	7.3	149
200	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> , <b>2008</b> , 112, 19818-19824	3.8	147
199	Preparation and characterization of nanomaterials for sustainable energy production. <i>ACS Nano</i> , <b>2010</b> , 4, 5517-26	16.7	146
198	Nonoxidative Methane Conversion to Acetylene over Zeolite in a Low Temperature Plasma. <i>Journal of Catalysis</i> , <b>1998</b> , 179, 326-334	7.3	143

197	Effect of surface hydroxyls on selective CO <sub>2</sub> hydrogenation over Ni <sub>4</sub> /Al <sub>2</sub> O <sub>3</sub> : A density functional theory study. <i>Journal of Catalysis</i> , <b>2010</b> , 272, 227-234	7.3	141
196	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> , <b>2012</b> , 289, 105-117	7.3	139
195	Preparation and characterization of coke resistant Ni/SiO <sub>2</sub> catalyst for carbon dioxide reforming of methane. <i>Journal of Power Sources</i> , <b>2008</b> , 176, 46-53	8.9	131
194	Plasma application for more environmentally friendly catalyst preparation. <i>Pure and Applied Chemistry</i> , <b>2006</b> , 78, 1227-1238	2.1	131
193	Characterization of plasma treated Pd/HZSM-5 catalyst for methane combustion. <i>Applied Catalysis B: Environmental</i> , <b>2004</b> , 47, 95-100	21.8	131
192	Non-thermal plasma approaches in CO <sub>2</sub> utilization. <i>Fuel Processing Technology</i> , <b>1999</b> , 58, 119-134	7.2	131
191	Three-dimensional Printing for Catalytic Applications: Current Status and Perspectives. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1701134	15.6	120
190	Plasma methane conversion in the presence of carbon dioxide using dielectric-barrier discharges. <i>Fuel Processing Technology</i> , <b>2003</b> , 83, 101-109	7.2	120
189	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> , <b>2015</b> , 11, 277-293	17.1	118
188	Reduction of supported noble-metal ions using glow discharge plasma. <i>Langmuir</i> , <b>2006</b> , 22, 11388-94	4	118
187	Cu <sub>3</sub> (BTC) <sub>2</sub> : CO oxidation over MOF based catalysts. <i>Chemical Communications</i> , <b>2011</b> , 47, 2167-9	5.8	116
186	Control of the metal-support interface of NiO-loaded photocatalysts via cold plasma treatment. <i>Langmuir</i> , <b>2006</b> , 22, 2334-9	4	114
185	Carbon dioxide reforming of methane over Ni/Al <sub>2</sub> O <sub>3</sub> treated with glow discharge plasma. <i>Catalysis Today</i> , <b>2006</b> , 115, 205-210	5.3	111
184	Effect of the structure of Ni/TiO <sub>2</sub> catalyst on CO <sub>2</sub> methanation. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 22017-22025	6.7	110
183	Perspective on CO oxidation over Pd-based catalysts. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 69-81	5.5	108
182	Methane Conversion to Higher Hydrocarbons in the Presence of Carbon Dioxide Using Dielectric-Barrier Discharge Plasmas. <i>Plasma Chemistry and Plasma Processing</i> , <b>2001</b> , 21, 301-310	3.6	105
181	Effects of hydration and oxygen vacancy on CO <sub>2</sub> adsorption and activation on beta-Ga <sub>2</sub> O <sub>3</sub> (100). <i>Langmuir</i> , <b>2010</b> , 26, 5551-8	4	104
180	Plasma methane conversion using dielectric-barrier discharges with zeolite A. <i>Catalysis Today</i> , <b>2002</b> , 72, 229-235	5.3	97

179	Adsorption and protonation of CO <sub>2</sub> on partially hydroxylated gamma-Al <sub>2</sub> O <sub>3</sub> surfaces: a density functional theory study. <i>Langmuir</i> , <b>2008</b> , 24, 12410-9	4	95
178	Plasmon Based Double-Layer Hydrogel Device for a Highly Efficient Solar Vapor Generation. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1901312	15.6	88
177	Three-dimensional printed acrylonitrile butadiene styrene framework coated with Cu-BTC metal-organic frameworks for the removal of methylene blue. <i>Scientific Reports</i> , <b>2014</b> , 4, 5939	4.9	88
176	Enhancing Activity and Reducing Cost for Electrochemical Reduction of CO by Supporting Palladium on Metal Carbides. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 6271-6275	16.4	87
175	CO <sub>2</sub> adsorption and activation over γ-Al <sub>2</sub> O <sub>3</sub> -supported transition metal dimers: A density functional study. <i>Catalysis Today</i> , <b>2009</b> , 147, 68-76	5.3	87
174	Plasma methods for preparing green catalysts: Current status and perspective. <i>Chinese Journal of Catalysis</i> , <b>2016</b> , 37, 340-348	11.3	87
173	Preparation and characterization of SBA-15 supported Pd catalyst for CO oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 106, 672-680	21.8	85
172	Modification of starch by glow discharge plasma. <i>Carbohydrate Polymers</i> , <b>2004</b> , 55, 23-26	10.3	84
171	Covalent organic polymer supported palladium catalysts for CO oxidation. <i>Chemical Communications</i> , <b>2013</b> , 49, 5633-5	5.8	83
170	Perspectives on Electron-Assisted Reduction for Preparation of Highly Dispersed Noble Metal Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2014</b> , 2, 3-13	8.3	81
169	Methane conversion to higher hydrocarbons in a corona discharge over metal oxide catalysts with OH groups. <i>Applied Catalysis A: General</i> , <b>1997</b> , 164, 21-33	5.1	81
168	Oxidative Coupling of Methane with ac and dc Corona Discharges. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1996</b> , 35, 3295-3301	3.9	80
167	Steam reforming of methane over Ni/SiO <sub>2</sub> catalyst with enhanced coke resistance at low steam to methane ratio. <i>Catalysis Today</i> , <b>2015</b> , 256, 130-136	5.3	78
166	Interaction of Pt clusters with the anatase TiO <sub>2</sub> (101) surface: a first principles study. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 7463-72	3.4	78
165	Selective hydrogenation of CO <sub>2</sub> to methanol over Ni/In <sub>2</sub> O <sub>3</sub> catalyst. <i>Journal of Energy Chemistry</i> , <b>2020</b> , 50, 409-415	12	77
164	Improved activity of Ni/MgAl <sub>2</sub> O <sub>4</sub> for CO <sub>2</sub> methanation by the plasma decomposition. <i>Journal of Energy Chemistry</i> , <b>2015</b> , 24, 655-659	12	76
163	Nanoparticle/Metal-Organic Framework Composites for Catalytic Applications: Current Status and Perspective. <i>Molecules</i> , <b>2017</b> , 22,	4.8	75
162	Partial oxidation of methane to syngas over glow discharge plasma treated NiBe/Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Catalysis Today</i> , <b>2004</b> , 89, 183-191	5.3	74

161	Promotion effects of Ga <sub>2</sub> O <sub>3</sub> on CO <sub>2</sub> adsorption and conversion over a SiO <sub>2</sub> -supported Ni catalyst. <i>Energy and Environmental Science</i> , <b>2010</b> , 3, 1322	35.4	70
160	Selective oxidation of glucose to gluconic acid over argon plasma reduced Pd/Al <sub>2</sub> O <sub>3</sub> . <i>Green Chemistry</i> , <b>2008</b> , 10, 1318	10	70
159	Size-controlled synthesis of colloidal gold nanoparticles at room temperature under the influence of glow discharge. <i>Nanoscale Research Letters</i> , <b>2009</b> , 5, 124-9	5	68
158	Porous MS <sub>2</sub> /MO <sub>2</sub> (M = W, Mo) Nanorods as Efficient Hydrogen Evolution Reaction Catalysts. <i>ACS Catalysis</i> , <b>2016</b> , 6, 6585-6590	13.1	67
157	Synthesis of Oxygenates and Higher Hydrocarbons Directly from Methane and Carbon Dioxide Using Dielectric-Barrier Discharges: Product Distribution. <i>Energy &amp; Fuels</i> , <b>2002</b> , 16, 864-870	4.1	67
156	Starch-Enhanced Synthesis of Oxygenates from Methane and Carbon Dioxide Using Dielectric-Barrier Discharges. <i>Plasma Chemistry and Plasma Processing</i> , <b>2003</b> , 23, 69-82	3.6	66
155	Highly Active and Stable Pt-Pd Alloy Catalysts Synthesized by Room-Temperature Electron Reduction for Oxygen Reduction Reaction. <i>Advanced Science</i> , <b>2017</b> , 4, 1600486	13.6	64
154	Enhanced activity for CO oxidation over WO <sub>3</sub> nanolamella supported Pt catalyst. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 12860-7	9.5	64
153	Comparative investigations on plasma catalytic methane conversion to higher hydrocarbons over zeolites. <i>Applied Catalysis A: General</i> , <b>1999</b> , 178, 17-27	5.1	64
152	CO <sub>2</sub> reforming of methane over argon plasma reduced Rh/Al <sub>2</sub> O <sub>3</sub> catalyst: a case study of alternative catalyst reduction via non-hydrogen plasmas. <i>Green Chemistry</i> , <b>2007</b> , 9, 554	10	61
151	Hydrogenation of CO <sub>2</sub> to Methanol on a Au@Pt/Al <sub>2</sub> O <sub>3</sub> Catalyst. <i>ACS Catalysis</i> , <b>2020</b> , 10, 11307-11317	13.1	61
150	Highly active Ni/CeO <sub>2</sub> catalyst for CO <sub>2</sub> methanation: Preparation and characterization. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 282, 119581	21.8	61
149	Peptide-templated noble metal catalysts: syntheses and applications. <i>Chemical Science</i> , <b>2017</b> , 8, 3310-3324	3.4	60
148	Peptide Self-Assembled Biofilm with Unique Electron Transfer Flexibility for Highly Efficient Visible-Light-Driven Photocatalysis. <i>ACS Nano</i> , <b>2015</b> , 9, 11258-65	16.7	60
147	Effect of PdIn bimetallic particle formation on CO <sub>2</sub> reduction over the PdIn/SiO <sub>2</sub> catalyst. <i>Chemical Engineering Science</i> , <b>2015</b> , 135, 193-201	4.4	59
146	Characterization of Argon Glow Discharge Plasma Reduced Pt/Al <sub>2</sub> O <sub>3</sub> Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2006</b> , 45, 8604-8609	3.9	59
145	Reverse water gas shift over In <sub>2</sub> O <sub>3</sub> /CeO <sub>2</sub> catalysts. <i>Catalysis Today</i> , <b>2016</b> , 259, 402-408	5.3	57
144	Carbon dioxide reforming of methane over glow discharge plasma-reduced Ir/Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Catalysis Communications</i> , <b>2008</b> , 9, 1558-1562	3.2	56

143	Hydrogen Storage on Carbon Doped with Platinum Nanoparticles Using Plasma Reduction. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 8277-8281	3.9	56
142	Carbon formation and steam reforming of methane on silica supported nickel catalysts. <i>Catalysis Communications</i> , <b>2012</b> , 19, 61-65	3.2	55
141	Synthesis, characterization and application of defective metal-organic frameworks: current status and perspectives. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 21526-21546	13	54
140	An Experimental Study on the Oxidative Coupling of Methane in a Direct Current Corona Discharge Reactor over Sr/La <sub>2</sub> O <sub>3</sub> Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1997</b> , 36, 632-637	3.9	53
139	Plasmonic wooden flower for highly efficient solar vapor generation. <i>Nano Energy</i> , <b>2020</b> , 76, 104998	17.1	51
138	Highly active and stable Pt (111) catalysts synthesized by peptide assisted room temperature electron reduction for oxygen reduction reaction. <i>Nano Energy</i> , <b>2016</b> , 25, 26-33	17.1	51
137	Effect of Surface Oxygen Vacancy on Pt Cluster Adsorption and Growth on the Defective Anatase TiO <sub>2</sub> (101) Surface. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 16397-16404	3.8	49
136	Pt nanoparticles on TiO <sub>2</sub> with novel metal-semiconductor interface as highly efficient photocatalyst. <i>Materials Letters</i> , <b>2005</b> , 59, 3437-3440	3.3	48
135	A novel plasma-treated Pt/NaZSM-5 catalyst for NO reduction by methane. <i>Catalysis Communications</i> , <b>2004</b> , 5, 35-39	3.2	48
134	Bifunctional catalysts for the hydroisomerization of n-alkanes: the effects of metal-acid balance and textural structure. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 4162-4187	5.5	47
133	Co-generation of Syngas and Higher Hydrocarbons from CO <sub>2</sub> and CH <sub>4</sub> Using Dielectric-Barrier Discharge: Effect of Electrode Materials. <i>Energy &amp; Fuels</i> , <b>2001</b> , 15, 299-302	4.1	47
132	A highly active Pt/In <sub>2</sub> O <sub>3</sub> catalyst for CO <sub>2</sub> hydrogenation to methanol with enhanced stability. <i>Green Chemistry</i> , <b>2020</b> , 22, 5059-5066	10	46
131	Al-MCM-41 supported palladium catalyst for methane combustion: Effect of the preparation methodologies. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 90, 570-577	21.8	46
130	Highly efficient Pt/TiO <sub>2</sub> photocatalyst prepared by plasma-enhanced impregnation method. <i>Chemical Physics Letters</i> , <b>2004</b> , 400, 520-523	2.5	46
129	Hydrogen Adsorption on Ga <sub>2</sub> O <sub>3</sub> Surface: A Combined Experimental and Computational Study. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 10140-10146	3.8	45
128	The promotion effect of CeO <sub>2</sub> on CO <sub>2</sub> adsorption and hydrogenation over Ga <sub>2</sub> O <sub>3</sub> . <i>Catalysis Today</i> , <b>2012</b> , 194, 60-64	5.3	44
127	Understanding the Role of Functional Groups in Polymeric Binder for Electrochemical Carbon Dioxide Reduction on Gold Nanoparticles. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1804762	15.6	44
126	In <sub>2</sub> O <sub>3</sub> as a promising catalyst for CO <sub>2</sub> utilization: A case study with reverse water gas shift over In <sub>2</sub> O <sub>3</sub> <b>2014</b> , 4, 140-144		43

125	Synthesis of monodisperse gold nanoparticles in ionic liquid by applying room temperature plasma. <i>Materials Letters</i> , <b>2011</b> , 65, 353-355	3.3	42
124	Facile and fast template removal from mesoporous MCM-41 molecular sieve using dielectric-barrier discharge plasma. <i>Catalysis Communications</i> , <b>2010</b> , 11, 551-554	3.2	41
123	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> , <b>2019</b> , 251, 162-167	21.8	39
122	Recent progresses in the size and structure control of MOF supported noble metal catalysts. <i>Catalysis Today</i> , <b>2016</b> , 263, 61-68	5.3	39
121	Preparation of 2D WO <sub>3</sub> Nanomaterials with Enhanced Catalytic Activities: Current Status and Perspective. <i>ChemBioEng Reviews</i> , <b>2015</b> , 2, 335-350	5.2	39
120	Stability of Ionic Liquids under the Influence of Glow Discharge Plasmas. <i>Plasma Processes and Polymers</i> , <b>2008</b> , 5, 239-245	3.4	39
119	DFT Study of Structural and Electronic Properties of PdO/HZSM-5. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 1653-1659	3.4	39
118	Floating double probe characteristics of non-thermal plasmas in the presence of zeolite. <i>Journal of Electrostatics</i> , <b>2002</b> , 54, 149-158	1.7	39
117	Surface Science Studies on Cobalt Fischer-Tropsch Catalysts. <i>ChemCatChem</i> , <b>2011</b> , 3, 551-559	5.2	38
116	The room temperature electron reduction for the preparation of silver nanoparticles on cotton with high antimicrobial activity. <i>Carbohydrate Polymers</i> , <b>2017</b> , 161, 270-276	10.3	36
115	Density Functional Theory Study of Methanol Conversion via Cold Plasmas. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2006</b> , 45, 3460-3467	3.9	35
114	Novel Plasma Methanol Decomposition to Hydrogen Using Corona Discharges. <i>Chemistry Letters</i> , <b>2004</b> , 33, 744-745	1.7	35
113	CO <sub>2</sub> hydrogenation to methanol over Rh/In <sub>2</sub> O <sub>3</sub> catalyst. <i>Catalysis Today</i> , <b>2021</b> , 365, 341-347	5.3	35
112	One-step fabrication of self-assembled peptide thin films with highly dispersed noble metal nanoparticles. <i>Langmuir</i> , <b>2013</b> , 29, 16051-7	4	34
111	Carbon template removal by dielectric-barrier discharge plasma for the preparation of zirconia. <i>Catalysis Today</i> , <b>2013</b> , 211, 156-161	5.3	32
110	Hydrogen production from partial oxidation of dimethyl ether using corona discharge plasma. <i>International Journal of Hydrogen Energy</i> , <b>2007</b> , 32, 958-964	6.7	32
109	CO Adsorbed Infrared Spectroscopy Study of Ni/Al <sub>2</sub> O <sub>3</sub> Catalyst for CO <sub>2</sub> Reforming of Methane. <i>Catalysis Letters</i> , <b>2007</b> , 118, 306-312	2.8	32
108	Density Functional Theory Study of Synthesis of Oxygenates and Higher Hydrocarbons from Methane and Carbon Dioxide Using Cold Plasmas. <i>Energy &amp; Fuels</i> , <b>2004</b> , 18, 148-153	4.1	32

107	Effect of Catalyst Structure on Growth and Reactivity of Carbon Nanofibers over Ni/MgAl <sub>2</sub> O <sub>4</sub> . <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 8182-8188	3.9	31
106	Enhanced sulfur resistance of Ni/SiO <sub>2</sub> catalyst for methanation via the plasma decomposition of nickel precursor. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 12132-8	3.6	30
105	Characterization of Silica Supported Nickel Catalyst for Methanation with Improved Activity by Room Temperature Plasma Treatment. <i>Catalysis Letters</i> , <b>2009</b> , 133, 112-118	2.8	30
104	Template Removal from ZSM-5 Zeolite Using Dielectric-Barrier Discharge Plasma. <i>Catalysis Letters</i> , <b>2010</b> , 135, 241-245	2.8	30
103	A DFT study of synthesis of acetic acid from methane and carbon dioxide. <i>Chemical Physics Letters</i> , <b>2003</b> , 368, 313-318	2.5	30
102	Highly Active Ir/In <sub>2</sub> O <sub>3</sub> Catalysts for Selective Hydrogenation of CO <sub>2</sub> to Methanol: Experimental and Theoretical Studies. <i>ACS Catalysis</i> , <b>2021</b> , 11, 4036-4046	13.1	30
101	Enhanced cycloaddition of CO <sub>2</sub> to epichlorohydrin over zeolitic imidazolate frameworks with mixed linkers under solventless and co-catalyst-free condition. <i>Catalysis Today</i> , <b>2020</b> , 339, 337-343	5.3	29
100	Fabrication of CuO nanofibers via the plasma decomposition of Cu(OH) <sub>2</sub> . <i>Materials Letters</i> , <b>2009</b> , 63, 188-190	3.3	28
99	Density functional theory study of methane activation over PdO/HZSM-5. <i>Journal of Molecular Catalysis A</i> , <b>2006</b> , 247, 199-205		27
98	The metal-organic framework UiO-66 with missing-linker defects: A highly active catalyst for carbon dioxide cycloaddition. <i>Applied Energy</i> , <b>2020</b> , 277, 115560	10.7	27
97	A DFT study of methanol dehydrogenation on the PdIn(110) surface. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 16660-7	3.6	26
96	Co <sub>3</sub> O <sub>4</sub> /HZSM-5 catalysts for methane combustion: The effect of preparation methodologies. <i>Catalysis Today</i> , <b>2017</b> , 297, 219-227	5.3	25
95	Floating silver film: A flexible surface-enhanced Raman spectroscopy substrate for direct liquid phase detection at gas-liquid interfaces. <i>Nano Research</i> , <b>2016</b> , 9, 1148-1158	10	25
94	Fabrication of palladium/graphene oxide composite by plasma reduction at room temperature. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 234	5	25
93	Characterization of CuO-ZnO Catalyst Prepared by Decomposition of Carbonates Using Dielectric-Barrier Discharge Plasma. <i>Catalysis Letters</i> , <b>2009</b> , 129, 493-498	2.8	25
92	Effect of the catalyst structure on the formation of carbon nanotubes over Ni/MgO catalyst. <i>Diamond and Related Materials</i> , <b>2013</b> , 31, 50-57	3.5	24
91	2D-oriented self-assembly of peptides induced by hydrated electrons. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 14614-7	4.8	24
90	Size control of carbon black-supported platinum nanoparticles via novel plasma reduction. <i>Catalysis Communications</i> , <b>2009</b> , 10, 959-962	3.2	23



89	Mechanism of template removal for the synthesis of molecular sieves using dielectric barrier discharge. <i>Catalysis Today</i> , <b>2015</b> , 256, 137-141	5.3	22
88	Characterization of ZnO Nanotube Fabricated by the Plasma Decomposition of Zn(OH) <sub>2</sub> Via Dielectric Barrier Discharge. <i>Plasma Chemistry and Plasma Processing</i> , <b>2012</b> , 32, 201-209	3.6	22
87	Effect of Pt Clusters on Methanol Adsorption and Dissociation over Perfect and Defective Anatase TiO <sub>2</sub> (101) Surface. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 20674-20682	3.8	22
86	Pathways for steam reforming of dimethyl ether under cold plasma conditions: A DFT study. <i>Fuel</i> , <b>2007</b> , 86, 2300-2307	7.1	22
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