

# Barbara G Pawelec

## List of Publications by Citations

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168  
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46  
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74  
g-index

177  
ext. papers

7,531  
ext. citations

7.5  
avg, IF

5.83  
L-index

#	Paper	IF	Citations
168	The effect of CeO <sub>2</sub> on the surface and catalytic properties of Pt/CeO <sub>2</sub> /ZrO <sub>2</sub> catalysts for methane dry reforming. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 89, 149-159	21.8	188
167	Study of the surface and redox properties of ceria/zirconia oxides. <i>Applied Catalysis A: General</i> , <b>2008</b> , 337, 86-96	5.1	188
166	Hydrogenation of Aromatics on Sulfur-Resistant PtPd Bimetallic Catalysts. <i>Journal of Catalysis</i> , <b>2000</b> , 189, 184-194	7.3	185
165	Structural and surface features of PtNi catalysts for reforming of methane with CO <sub>2</sub> . <i>Applied Catalysis A: General</i> , <b>2007</b> , 323, 188-201	5.1	181
164	Insights into the coke deposited on HZSM-5, H $\beta$ and HY zeolites during the cracking of polyethylene. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 104, 91-100	21.8	160
163	Synergy effect in the HDO of phenol over NiW catalysts supported on active carbon: Effect of tungsten precursors. <i>Applied Catalysis B: Environmental</i> , <b>2010</b> , 101, 1-12	21.8	159
162	Synergetic effect of gold in Au/Pd catalysts during hydrodesulfurization reactions of model compounds. <i>Journal of Catalysis</i> , <b>2003</b> , 215, 317-325	7.3	151
161	SBA-15 Mesoporous Silica as Catalytic Support for Hydrodesulfurization Catalysts-Review. <i>Materials</i> , <b>2013</b> , 6, 4139-4167	3.5	141
160	Adsorption of lead (II) on SBA-15 mesoporous molecular sieve functionalized with NH <sub>2</sub> groups. <i>Microporous and Mesoporous Materials</i> , <b>2012</b> , 160, 133-142	5.3	135
159	Ni-based catalysts for reforming of methane with CO <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 15966-15975	6.7	133
158	Upgrading of bio-liquids on different mesoporous silica-supported CoMo catalysts. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 92, 154-167	21.8	132
157	Hydrogenation of aromatics over Au-Pd/SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> catalysts; support acidity effect. <i>Applied Catalysis A: General</i> , <b>2004</b> , 264, 43-51	5.1	125
156	MCM-41 supported PdNi catalysts for dry reforming of methane. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 92, 250-261	21.8	124
155	Formaldehyde/methanol combustion on alumina-supported manganese-palladium oxide catalyst. <i>Applied Catalysis B: Environmental</i> , <b>2004</b> , 51, 83-91	21.8	120
154	Hydrogenation of aromatics over supported Pt-Pd catalysts. <i>Applied Catalysis A: General</i> , <b>2002</b> , 225, 223-237	3.3	120
153	Enhancement of phenol hydrodeoxygenation over Pd catalysts supported on mixed HY zeolite and Al <sub>2</sub> O <sub>3</sub> . An approach to O-removal from bio-oils. <i>Fuel</i> , <b>2014</b> , 117, 1061-1073	7.1	102
152	Comparison of the morphology and HDS activity of ternary Co-Mo-W catalysts supported on P-modified SBA-15 and SBA-16 substrates. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 92, 168-184	21.8	98

151	AuPd alloy formation in Au-Pd/Al <sub>2</sub> O <sub>3</sub> catalysts and its role on aromatics hydrogenation. <i>Applied Surface Science</i> , <b>2005</b> , 242, 380-391	6.7	98
150	CoMo/Ti-SBA-15 catalysts for dibenzothiophene desulfurization. <i>Catalysis Today</i> , <b>2007</b> , 127, 70-84	5.3	96
149	On the origin of the high performance of MWNT-supported PtPd catalysts for the hydrogenation of aromatics. <i>Carbon</i> , <b>2006</b> , 44, 84-98	10.4	88
148	Methylene blue photodegradation over titania-decorated SBA-15. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 110, 108-117	21.8	87
147	Ni <sub>2</sub> P and CoP catalysts prepared from phosphite-type precursors for HDS/H <sub>2</sub> N competitive reactions. <i>Applied Catalysis A: General</i> , <b>2010</b> , 390, 253-263	5.1	83
146	Carbon-supported tungsten and nickel catalysts for hydrodesulfurization and hydrogenation reactions. <i>Applied Catalysis A: General</i> , <b>2001</b> , 206, 295-307	5.1	80
145	Synthesis and Characterization of Ti-HMS and CoMo/Ti-HMS Oxide Materials with Varying Ti Content. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 4062-4073	9.6	70
144	Methanol Synthesis from CO: A Review of the Latest Developments in Heterogeneous Catalysis. <i>Materials</i> , <b>2019</b> , 12,	3.5	68
143	Hydrogenolysis of anisole over mesoporous sulfided CoMoW/SBA-15(16) catalysts. <i>Catalysis Today</i> , <b>2011</b> , 172, 103-110	5.3	67
142	HDS of dibenzothiophene over polyphosphates supported on mesoporous silica. <i>Journal of Catalysis</i> , <b>2004</b> , 223, 86-97	7.3	67
141	Structure and surface properties of ceria-modified Ni-based catalysts for hydrogen production. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 225, 340-353	21.8	64
140	Mo promoted Ni-Al <sub>2</sub> O <sub>3</sub> co-precipitated catalysts for green diesel production. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 229, 139-154	21.8	60
139	Enhancement of pyrolysis gasoline hydrogenation over Pd-promoted Ni/SiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts. <i>Fuel</i> , <b>2007</b> , 86, 2262-2274	7.1	59
138	Comparison of the morphology and HDS activity of ternary Ni(Co)-Mo-W catalysts supported on Al-HMS and Al-SBA-16 substrates. <i>Applied Catalysis B: Environmental</i> , <b>2012</b> , 125, 473-485	21.8	58
137	SBA-15-supported gold nanoparticles decorated by CeO <sub>2</sub> : Structural characteristics and CO oxidation activity. <i>Applied Catalysis A: General</i> , <b>2010</b> , 381, 42-53	5.1	55
136	Effect of Ti on the catalytic properties of CoMo/Ti(x)-HMS catalysts in the reaction of hydrodesulfurization of 4-ethyl-6-methyl dibenzothiophene. <i>Journal of Catalysis</i> , <b>2006</b> , 242, 254-269	7.3	54
135	Aromatics hydrogenation on silica/alumina supported palladium/nickel catalysts. <i>Applied Catalysis A: General</i> , <b>2003</b> , 242, 17-30	5.1	53
134	Dehydrogenation of methylcyclohexane to toluene over partially reduced silica-supported Pt-Mo catalysts. <i>Journal of Molecular Catalysis A</i> , <b>2016</b> , 420, 96-106		51

133	Influence of the acidity of nanostructured CoMo/P/Ti-HMS catalysts on the HDS of 4,6-DMDBT reaction pathways. <i>Applied Catalysis B: Environmental</i> , <b>2008</b> , 80, 1-14	21.8	50
132	Inhibition of CoMo/HMS catalyst deactivation in the HDS of 4,6-DMDBT by support modification with phosphate. <i>Fuel</i> , <b>2011</b> , 90, 2726-2737	7.1	49
131	Supported gold catalysts in SBA-15 modified with TiO <sub>2</sub> for oxidation of carbon monoxide. <i>Applied Catalysis A: General</i> , <b>2010</b> , 375, 37-48	5.1	49
130	Removal of refractory S-containing compounds from liquid fuels on novel bifunctional CoMo/HMS catalysts modified with Ti. <i>Applied Catalysis B: Environmental</i> , <b>2007</b> , 71, 223-236	21.8	49
129	Hydrodesulfurization of dibenzothiophene over CoMo/HMS and CoMo/Ti-HMS catalysts. <i>Catalysis Communications</i> , <b>2006</b> , 7, 33-41	3.2	48
128	Competitive HDS and HDN reactions over NiMoS/HMS-Al catalysts: Diminishing of the inhibition of HDS reaction by support modification with P. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 180, 569-579	21.8	47
127	Hydrodeoxygenation of phenol on bifunctional Ni-based catalysts: Effects of Mo promotion and support. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 238, 147-160	21.8	47
126	Characterization and HDS performance of sulfided CoMoW catalysts supported on mesoporous Al-SBA-16 substrates. <i>Fuel</i> , <b>2015</b> , 149, 149-161	7.1	46
125	Comparison of the morphology and reactivity in HDS of CoMo/HMS, CoMo/P/HMS and CoMo/SBA-15 catalysts. <i>Microporous and Mesoporous Materials</i> , <b>2009</b> , 118, 189-201	5.3	46
124	Simultaneous 1-pentene hydroisomerisation and thiophene hydrodesulphurisation over sulphided Ni/FAU and Ni/ZSM-5 catalysts. <i>Applied Catalysis A: General</i> , <b>2004</b> , 262, 155-166	5.1	46
123	Methyl ethyl ketone combustion over La-transition metal (Cr, Co, Ni, Mn) perovskites. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 92, 445-453	21.8	45
122	Influence of the preparation method on the activity of phosphate-containing CoMo/HMS catalysts in deep hydrodesulphurization. <i>Applied Catalysis A: General</i> , <b>2007</b> , 321, 58-70	5.1	44
121	Support effect and metals interactions for NiRu/Al <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> and ZrO <sub>2</sub> catalysts in the hydrodeoxygenation of phenol. <i>Catalysis Today</i> , <b>2017</b> , 296, 219-227	5.3	43
120	XANES Mo L-Edges and XPS Study of Mo Loaded in HY Zeolite. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 7824-7831	3.4	43
119	Regeneration of Ni-USY catalysts used in benzene hydrogenation. <i>Applied Catalysis A: General</i> , <b>1996</b> , 145, 307-322	5.1	43
118	Effect of gallium loading on the hydrodesulfurization activity of unsupported Ga <sub>2</sub> S <sub>3</sub> /WS <sub>2</sub> catalysts. <i>Applied Catalysis B: Environmental</i> , <b>2012</b> , 111-112, 10-19	21.8	42
117	Deep aromatics hydrogenation in the presence of DBT over AuPd/Alumina catalysts. <i>Applied Catalysis A: General</i> , <b>2004</b> , 275, 127-139	5.1	42
116	Deep hydrodesulfurization of DBT and diesel fuel on supported Pt and Ir catalysts. <i>Applied Catalysis A: General</i> , <b>1996</b> , 137, 269-286	5.1	42

115	Enhancement of biphenyl hydrogenation over gold catalysts supported on Fe-, Ce- and Ti-modified mesoporous silica (HMS). <i>Journal of Catalysis</i> , <b>2009</b> , 267, 30-39	7.3	41
114	CO oxidation on Au nanoparticles supported on wormhole HMS material: Effect of support modification with CeO <sub>2</sub> . <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 89, 128-136	21.8	41
113	Hydrodesulfurization and hydrogenation of model compounds on silica/alumina supported bimetallic systems?. <i>Fuel</i> , <b>2003</b> , 82, 501-509	7.1	41
112	Dehydrogenation of methylcyclohexane to toluene over partially reduced MoBiO <sub>2</sub> catalysts. <i>Applied Catalysis A: General</i> , <b>2015</b> , 502, 329-339	5.1	40
111	Biogas reforming over bimetallic PdNi catalysts supported on phosphorus-modified alumina. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 10635-10647	6.7	40
110	Effect of Al and Ti content in HMS material on the catalytic activity of NiMo and CoMo hydrotreating catalysts in the HDS of DBT. <i>Microporous and Mesoporous Materials</i> , <b>2008</b> , 111, 157-170	5.3	40
109	Synthesis and characterization of P-modified mesoporous CoMo/HMS/Ti catalysts. <i>Microporous and Mesoporous Materials</i> , <b>2008</b> , 111, 493-506	5.3	39
108	Aromatics reduction of pyrolysis gasoline (PyGas) over HY-supported transition metal catalysts. <i>Applied Catalysis A: General</i> , <b>2006</b> , 315, 101-113	5.1	39
107	Dibenzothiophene hydrodesulfurization on silica-alumina-supported transition metal sulfide catalysts. <i>Applied Catalysis A: General</i> , <b>1996</b> , 148, 23-40	5.1	39
106	Simultaneous hydrodesulfurization and hydrodenitrogenation on MoP/SiO <sub>2</sub> catalysts: Effect of catalyst preparation method. <i>Applied Catalysis B: Environmental</i> , <b>2012</b> , 113-114, 87-99	21.8	38
105	Enhancement of naphthalene hydrogenation over PtPd/SiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> catalyst modified by gold. <i>Journal of Molecular Catalysis A</i> , <b>2006</b> , 253, 30-43		37
104	Factors influencing selectivity in naphthalene hydrogenation over Au- and Pt/Au-supported catalysts. <i>Applied Catalysis A: General</i> , <b>2005</b> , 283, 165-175	5.1	37
103	Relationship between reduced nickel and activity for benzene hydrogenation on Ni-USY zeolite catalysts. <i>Applied Catalysis A: General</i> , <b>1992</b> , 87, 145-156	5.1	37
102	Insight of 1D γ-Al <sub>2</sub> O <sub>3</sub> nanorods decoration by NiWS nanoslabs in ultra-deep hydrodesulfurization catalyst. <i>Journal of Catalysis</i> , <b>2015</b> , 321, 51-61	7.3	36
101	Removal of refractory S-containing compounds from liquid fuels over P-loaded NiMoW/SBA-16 sulfide catalysts. <i>Fuel</i> , <b>2013</b> , 103, 321-333	7.1	35
100	Post-synthesis alumination of MCM-41: Effect of the acidity on the HDS activity of supported Pd catalysts. <i>Applied Catalysis A: General</i> , <b>2010</b> , 383, 211-216	5.1	35
99	Dibenzothiophene hydrodesulfurization on HY-zeolite-supported transition metal sulfide catalysts. <i>Fuel Processing Technology</i> , <b>1999</b> , 61, 73-88	7.2	35
98	HDO activity of carbon-supported Rh, Ni and Mo-Ni catalysts. <i>Molecular Catalysis</i> , <b>2017</b> , 441, 209-220	3.3	34

97	Preferential CO oxidation in excess of hydrogen over Au/HMS catalysts modified by Ce, Fe and Ti oxides. <i>Applied Catalysis B: Environmental</i> , <b>2010</b> , 100, 450-462	21.8	34
96	Preparation, Characterization, and Performance of Alumina-Supported Nanostructured MoPhosphide Systems. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 5627-5636	9.6	32
95	Cd <sub>1-x</sub> Zn <sub>x</sub> S solid solutions supported on ordered mesoporous silica (SBA-15): Structural features and photocatalytic activity under visible light. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 9948-9958	6.7	31
94	Influence of reduction temperature and metal loading on the performance of molybdenum phosphide catalysts for dibenzothiophene hydrodesulfurization. <i>Applied Catalysis A: General</i> , <b>2008</b> , 334, 330-338	5.1	31
93	Silica/alumina-supported transition metal sulphide catalysts for deep hydrodesulphurization. <i>Catalysis Today</i> , <b>2003</b> , 86, 73-85	5.3	31
92	Hydrodesulfurization enhancement of heavy and light S-hydrocarbons on NiMo/HMS catalysts modified with Al and P. <i>Applied Catalysis A: General</i> , <b>2014</b> , 484, 108-121	5.1	30
91	Chemoselective hydrogenation of o-, p- and m-chloronitrobenzene at ambient temperature on Au/Fe <sub>2</sub> O <sub>3</sub> catalysts. <i>Applied Catalysis A: General</i> , <b>2014</b> , 482, 127-136	5.1	30
90	Effect of the support acidity on the aromatic ring-opening of pyrolysis gasoline over Pt/HZSM-5 catalysts. <i>Catalysis Today</i> , <b>2009</b> , 143, 115-119	5.3	30
89	Enhanced methylcyclohexane dehydrogenation to toluene over Ir/USY catalyst. <i>Catalysis Today</i> , <b>2016</b> , 259, 119-129	5.3	29
88	Effects of pH and chelating agent on the NiWS phase formation in NiW/Al <sub>2</sub> O <sub>3</sub> HDS catalysts. <i>Materials Chemistry and Physics</i> , <b>2015</b> , 166, 105-115	4.4	29
87	Characterization and HDS activity of sulfided Co Mo W/SBA-16 catalysts: Effects of P addition and Mo/(Mo + W) ratio. <i>Fuel</i> , <b>2017</b> , 198, 145-158	7.1	29
86	Factors influencing the thioresistance of nickel catalysts in aromatics hydrogenation. <i>Applied Catalysis A: General</i> , <b>2007</b> , 317, 20-33	5.1	29
85	Gold catalysts supported on TiO <sub>2</sub> -nanotubes for the selective hydrogenation of p-substituted nitrobenzenes. <i>Molecular Catalysis</i> , <b>2018</b> , 447, 21-27	3.3	28
84	Microwave-assisted synthesis of (S)Fe/TiO <sub>2</sub> systems: Effects of synthesis conditions and dopant concentration on photoactivity. <i>Applied Catalysis B: Environmental</i> , <b>2013</b> , 140-141, 213-224	21.8	28
83	Morphological investigation of nanostructured CoMo catalysts. <i>Applied Surface Science</i> , <b>2008</b> , 254, 4092-4102	4.02	28
82	Catalysts based on Co/zirconium doped mesoporous silica MSU for the hydrogenation and hydrogenolysis/hydrocracking of tetralin. <i>Applied Catalysis A: General</i> , <b>2005</b> , 286, 239-248	5.1	28
81	Hydrodesulfurization of dibenzothiophene and a SRGO on sulfide Ni(Co)Mo/Al <sub>2</sub> O <sub>3</sub> catalysts. Effect of Ru and Pd promotion. <i>Catalysis Today</i> , <b>2009</b> , 143, 108-114	5.3	27
80	Evaluation of silica-alumina-supported nickel catalysts in dibenzothiophene hydrodesulphurisation. <i>Applied Catalysis A: General</i> , <b>2003</b> , 248, 211-225	5.1	27



79	Mo-USY zeolites for hydrodesulphurization. <i>Applied Catalysis A: General</i> , <b>1993</b> , 99, 55-70	5.1	27
78	Factors affecting Ni-sulfide formation in Y-type zeolites: a combined Fourier transform infrared and X-ray photoelectron spectroscopy study. <i>Microporous and Mesoporous Materials</i> , <b>2000</b> , 34, 181-194	5.3	26
77	Designing supported ZnNi catalysts for the removal of oxygen from bio-liquids and aromatics from diesel. <i>Green Chemistry</i> , <b>2012</b> , 14, 2759	10	25
76	Effect of the modified support $\gamma\text{-Al}_2\text{O}_3\text{-CaO}$ on the structure and hydrodesulfurization activity of Mo and Ni-Mo catalysts. <i>Applied Catalysis A: General</i> , <b>2007</b> , 328, 201-209	5.1	25
75	Removal of PAH compounds from liquid fuels by Pd catalysts. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 3374-81	10.3	25
74	Effect of the support on the kinetic and deactivation performance of Pt/support catalysts during coupled hydrogenation and ring-opening of pyrolysis gasoline. <i>Applied Catalysis A: General</i> , <b>2007</b> , 333, 161-171	5.1	23
73	Synthesis and characterization of Ga-modified Ti-HMS oxide materials with varying Ga content. <i>Journal of Molecular Catalysis A</i> , <b>2015</b> , 397, 26-35		22
72	Impact of preparation method and support modification on the activity of mesoporous hydrotreating CoMo catalysts. <i>Applied Catalysis A: General</i> , <b>2008</b> , 348, 30-41	5.1	22
71	Mo-USY zeolites for hydrodesulphurization. I.. <i>Applied Catalysis A: General</i> , <b>1993</b> , 99, 37-54	5.1	22
70	Kinetic Modeling for Assessing the Product Distribution in Toluene Hydrocracking on a Pt/HZSM-5 Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 1043-1050	3.9	21
69	Kinetic modelling of methylcyclohexane ring-opening over a HZSM-5 zeolite catalyst. <i>Chemical Engineering Journal</i> , <b>2008</b> , 140, 287-295	14.7	21
68	Modification of the Pd/SiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> catalyst's thioresistance by the addition of a second metal (Pt, Ru, and Ni). <i>Catalysis Communications</i> , <b>2004</b> , 5, 173-178	3.2	21
67	Direct conversion of methane to C1 oxygenates over MoO <sub>3</sub> /USY zeolites. <i>Zeolites</i> , <b>1992</b> , 12, 882-888		21
66	Effect of partial Mo substitution by W on HDS activity using sulfide CoMoW/Al <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> catalysts. <i>Fuel</i> , <b>2018</b> , 233, 644-657	7.1	20
65	Cd <sub>1-x</sub> Zn <sub>x</sub> S supported on SBA-16 as photocatalysts for water splitting under visible light: Influence of Zn concentration. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 11799-11810	6.7	19
64	Studies of molybdenum sulfide catalyst ex ammonium tetrathiomolybdate: effect of pretreatment on hydrodesulfurization of dibenzothiophene. <i>Applied Catalysis A: General</i> , <b>1998</b> , 168, 205-217	5.1	19
63	Surface properties and hydrocracking activity of NiMo zeolite catalysts. <i>Applied Catalysis A: General</i> , <b>1998</b> , 169, 37-53	5.1	19
62	Catalytic ring opening of naphthenic structures. <i>Applied Catalysis A: General</i> , <b>2006</b> , 299, 14-29	5.1	19

61	Characterization of none and yttrium-modified Ni-based catalysts for dry reforming of methane. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 278, 119335	21.8	19
60	Maleic anhydride hydrogenation to succinic anhydride over mesoporous Ni/TiO <sub>2</sub> catalysts: Effects of Ni loading and temperature. <i>Journal of Molecular Catalysis A</i> , <b>2016</b> , 423, 441-448		18
59	Structure and surface properties of praseodymium modified alumina. <i>Applied Surface Science</i> , <b>2011</b> , 258, 278-284	6.7	18
58	Heterogeneous hydrogenation of nitroaromatic compounds on gold catalysts: Influence of titanium substitution in MCM-41 mesoporous supports. <i>Applied Catalysis A: General</i> , <b>2016</b> , 517, 110-119	5.1	17
57	CO oxidation at 20 °C over Au/SBA-15 catalysts decorated by Fe <sub>2</sub> O <sub>3</sub> nanoparticles. <i>Catalysis Communications</i> , <b>2011</b> , 15, 108-112	3.2	17
56	Kinetic Model Discrimination for Toluene Hydrogenation over Noble-Metal-Supported Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 7417-7425	3.9	17
55	Role of Cs on Hydrodesulfurization Activity of RuS <sub>2</sub> Catalysts Supported on a Mesoporous SBA-15 Type Material. <i>ACS Catalysis</i> , <b>2011</b> , 1, 175-186	13.1	16
54	Role of the Ru and Support in Sulfided RuNiMo Catalysts in Simultaneous Hydrodearomatization (HDA), Hydrodesulfurization (HDS), and Hydrodenitrogenation (HDN) Reactions. <i>Energy &amp; Fuels</i> , <b>2009</b> , 23, 1364-1372	4.1	15
53	Hydrodesulfurization over PdMo/HY zeolite catalysts. <i>Fuel</i> , <b>1997</b> , 76, 61-71	7.1	15
52	The effect of sulfidation on the Ni distribution in Ni/USY zeolites. <i>Zeolites</i> , <b>1997</b> , 18, 250-259		15
51	Influence of calcination on metallic dispersion and support interactions for NiRu/TiO <sub>2</sub> catalyst in the hydrodeoxygenation of phenol. <i>Catalysis Today</i> , <b>2019</b> , 329, 149-155	5.3	14
50	Characterizations and HDS performances of sulfided NiMoW catalysts supported on mesoporous titania-modified SBA-15. <i>Catalysis Today</i> , <b>2018</b> , 305, 152-161	5.3	14
49	Total CO oxidation over Fe-containing Au/HMS catalysts: Effects of gold loading and catalyst pretreatment. <i>Catalysis Today</i> , <b>2011</b> , 172, 95-102	5.3	13
48	HDS AND HDN ACTIVITY AND CHARACTERIZATION OF NiMo-USY ZEOLITE CATALYSTS. <i>Bulletin Des Sociétés Chimiques Belges</i> , <b>2010</b> , 104, 197-204		13
47	The Role of Zeolite Acidity in Coupled Toluene Hydrogenation and Ring Opening in One and Two Steps. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 665-671	3.9	13
46	Hydrogenation of aromatics over PtPd Metals supported on a mixed ZrP <sub>2</sub> O <sub>7</sub> /silica carrier promoted with lithium. <i>Catalysis Communications</i> , <b>2002</b> , 3, 305-311	3.2	13
45	Direct Synthesis of Dimethyl Ether from CO <sub>2</sub> : Recent Advances in Bifunctional/Hybrid Catalytic Systems. <i>Catalysts</i> , <b>2021</b> , 11, 411	4	13
44	Deep Hydrodesulfurization of Dibenzothiophenes Over NiW Sulfide Catalysts Supported on Sol-Gel Titania-Alumina. <i>Topics in Catalysis</i> , <b>2016</b> , 59, 241-251	2.3	12



43	Effect of hydrogen on the cracking mechanisms of cycloalkanes over zeolites. <i>Catalysis Today</i> , <b>2010</b> , 150, 363-367	5.3	12
42	Promoting effect of Pt in Ni-based catalysts for CH <sub>4</sub> reforming. <i>Reaction Kinetics and Catalysis Letters</i> , <b>2007</b> , 91, 241-248		12
41	Catalytic behaviour of bifunctional pumice-supported and zeolite/pumice hybrid catalysts for n-pentane hydroisomerization. <i>Applied Catalysis A: General</i> , <b>2008</b> , 350, 38-45	5.1	12
40	Surface and Structural Features of Pt/Pd-Loaded Mesoporous Silica-Delaminated Zirconium Phosphate Systems. <i>Langmuir</i> , <b>2002</b> , 18, 7953-7963	4	12
39	Ortho-xylene hydroisomerization under pressure on HMS-Ti mesoporous silica decorated with Ga <sub>2</sub> O <sub>3</sub> nanoparticles. <i>Fuel</i> , <b>2015</b> , 158, 405-415	7.1	10
38	Hydrogen storage in liquid hydrocarbons: Effect of platinum addition to partially reduced Mo-SiO <sub>2</sub> catalysts. <i>Materials Chemistry and Physics</i> , <b>2018</b> , 209, 188-199	4.4	10
37	TiO <sub>2</sub> /DMS-1 disordered mesoporous silica system: Structural characteristics and methylene blue photodegradation activity. <i>Microporous and Mesoporous Materials</i> , <b>2013</b> , 170, 181-188	5.3	10
36	Hydrodesulfurization-Hydrogenation of Ni-Containing Ultrastable HY Zeolites. <i>Bulletin Des Sociétés Chimiques Belges</i> , <b>2010</b> , 100, 915-921		10
35	Noble metals supported on binary Al <sub>2</sub> O <sub>3</sub> -Ga <sub>2</sub> O <sub>3</sub> oxide as potential low-temperature water-gas shift catalysts. <i>Fuel</i> , <b>2020</b> , 266, 117031	7.1	10
34	Structure and activity of Cu/ZnO catalysts co-modified with aluminium and gallium for methanol synthesis. <i>Catalysis Today</i> , <b>2020</b> , 355, 870-881	5.3	10
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31	Effect of stacking of MoS <sub>2</sub> slabs on catalytic performance of supported CoMo-catalysts in hydrodesulfurization of dibenzothiophene. <i>Materials Research Innovations</i> , <b>2007</b> , 11, 54-59	1.9	8
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29	SBA-16 Cage-Like Porous Material Modified with APTES as an Adsorbent for Pb Ions Removal from Aqueous Solution. <i>Materials</i> , <b>2020</b> , 13,	3.5	7
28	Enhancement of dibenzothiophene hydrodesulphurization via hydrogenation route on NiMoW catalyst supported on HMS modified with Ti. <i>Catalysis Today</i> , <b>2018</b> , 305, 65-74	5.3	7
27	The use of a natural Mexican zeolite as support of NiMoW sulphide hydrotreating catalysts. <i>Catalysis Today</i> , <b>2014</b> , 220-222, 301-309	5.3	7
26	Synergetic effect in Ru <sub>x</sub> Mo <sub>(1-x)</sub> S <sub>2</sub> /SBA-15 hydrodesulfurization catalysts: Comparative experimental and DFT studies. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 251, 143-153	21.8	6

25	CO Oxidation at 20 °C on Au Catalysts Supported on Mesoporous Silica: Effects of Support Structural Properties and Modifiers. <i>Materials</i> , <b>2018</b> , 11,	3.5	6
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22	Partial oxidation of methane to syngas over Ni-loaded ultrastable HY zeolite catalysts. <i>Studies in Surface Science and Catalysis</i> , <b>1997</b> , 441-446	1.8	4
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14	Hydrocracking activity of NiMo-USY zeolite hydrotreating catalysts. <i>Studies in Surface Science and Catalysis</i> , <b>1997</b> , 106, 567-572	1.8	2
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