

# Daniel E Resasco

## List of Publications by Citations

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294  
papers

20,562  
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77  
h-index

134  
g-index

307  
ext. papers

22,217  
ext. citations

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avg, IF

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L-index

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 294 | Narrow (n,m)-distribution of single-walled carbon nanotubes grown using a solid supported catalyst. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 11186-7              | 16.4 | 748       |
| 293 | Solid nanoparticles that catalyze biofuel upgrade reactions at the water/oil interface. <i>Science</i> , <b>2010</b> , 327, 68-72   | 33.3 | 631       |
| 292 | Controlled production of single-wall carbon nanotubes by catalytic decomposition of CO on bimetallic Co/Mo catalysts. <i>Chemical Physics Letters</i> , <b>2000</b> , 317, 497-503            | 2.5  | 545       |
| 291 | Dispersion of Single-Walled Carbon Nanotubes in Aqueous Solutions of the Anionic Surfactant NaDDBS. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 13357-13367                   | 3.4  | 532       |
| 290 | Hydrodeoxygenation of Furfural Over Supported Metal Catalysts: A Comparative Study of Cu, Pd and Ni. <i>Catalysis Letters</i> , <b>2011</b> , 141, 784-791                                    | 2.8  | 442       |
| 289 | Bifunctional transalkylation and hydrodeoxygenation of anisole over a Pt/HBeta catalyst. <i>Journal of Catalysis</i> , <b>2011</b> , 281, 21-29   | 7.3  | 396       |
| 288 | Kinetics and mechanism of hydrogenation of furfural on Cu/SiO <sub>2</sub> catalysts. <i>Journal of Catalysis</i> , <b>2011</b> , 277, 1-13   | 7.3  | 393       |
| 287 | Selective conversion of furfural to methylfuran over silica-supported NiFe bimetallic catalysts. <i>Journal of Catalysis</i> , <b>2011</b> , 284, 90-101                                      | 7.3  | 389       |
| 286 | Polymer brushes on single-walled carbon nanotubes by atom transfer radical polymerization of n-butyl methacrylate. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 170-6 | 16.4 | 363       |
| 285 | Metal-Support Interaction: Group VIII Metals and Reducible Oxides. <i>Advances in Catalysis</i> , <b>1989</b> , 36, 173-235   | 23.5 | 349       |
| 284 | Nucleation of Polypropylene Crystallization by Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 5852-5858  | 3.4  | 332       |
| 283 | A novel hybrid carbon material. <i>Nature Nanotechnology</i> , <b>2007</b> , 2, 156-61  | 28.7 | 326       |
| 282 | Water Solubilization of Single-Walled Carbon Nanotubes by Functionalization with Glucosamine. <i>Nano Letters</i> , <b>2002</b> , 2, 369-373  | 11.5 | 324       |
| 281 | Functionalization of Single-Walled Carbon Nanotubes with Polystyrene via Grafting to and Grafting from Methods. <i>Macromolecules</i> , <b>2004</b> , 37, 752-757                             | 5.5  | 315       |
| 280 | Ketonization of Carboxylic Acids: Mechanisms, Catalysts, and Implications for Biomass Conversion. <i>ACS Catalysis</i> , <b>2013</b> , 3, 2456-2473   | 13.1 | 290       |
| 279 | Conversion of furfural and 2-methylpentanal on Pd/SiO <sub>2</sub> and Pd/Cu/SiO <sub>2</sub> catalysts. <i>Journal of Catalysis</i> , <b>2011</b> , 280, 17-27                               | 7.3  | 282       |
| 278 | SWNT-Filled Thermoplastic and Elastomeric Composites Prepared by Miniemulsion Polymerization. <i>Nano Letters</i> , <b>2002</b> , 2, 797-802  | 11.5 | 257       |

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|-----|---|------|-----|
| 277 | Hydrophobic zeolites for biofuel upgrading reactions at the liquid-liquid interface in water/oil emulsions. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 8570-8                             | 16.4 | 248 |
| 276 | CO <sub>2</sub> Reforming of CH <sub>4</sub> over Pt/ZrO <sub>2</sub> Catalysts Promoted with La and Ce Oxides. <i>Journal of Catalysis</i> , <b>2000</b> , 194, 240-249  | 7.3  | 240 |
| 275 | Dispersion of single-walled carbon nanotubes of narrow diameter distribution. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 14454-60  | 3.4  | 237 |
| 274 | Tailoring (n,m) structure of single-walled carbon nanotubes by modifying reaction conditions and the nature of the support of CoMo catalysts. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 2108-15   | 3.4  | 237 |
| 273 | Cancer photothermal therapy in the near-infrared region by using single-walled carbon nanotubes. <i>Journal of Biomedical Optics</i> , <b>2009</b> , 14, 021009   | 3.5  | 231 |
| 272 | Synergism of Co and Mo in the catalytic production of single-wall carbon nanotubes by decomposition of CO. <i>Carbon</i> , <b>2001</b> , 39, 547-558  | 10.4 | 231 |
| 271 | Effect of Mild Nitric Acid Oxidation on Dispersability, Size, and Structure of Single-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 5765-5772  | 9.6  | 215 |
| 270 | Selective conversion of m-cresol to toluene over bimetallic NiFe catalysts. <i>Journal of Molecular Catalysis A</i> , <b>2014</b> , 388-389, 47-55  |      | 200 |
| 269 | A model of metal-oxide support interaction for Rh on TiO <sub>2</sub> . <i>Journal of Catalysis</i> , <b>1983</b> , 82, 279-288   | 7.3  | 198 |
| 268 | Correlation between catalytic activity and support reducibility in the CO <sub>2</sub> reforming of methane over Pt/CexZr1-xO <sub>2</sub> catalysts. <i>Chemical Engineering Journal</i> , <b>2001</b> , 82, 21-31 | 14.7 | 192 |
| 267 | Solubilization and Purification of Single-Wall Carbon Nanotubes in Water by in Situ Radical Polymerization of Sodium 4-Styrenesulfonate. <i>Macromolecules</i> , <b>2004</b> , 37, 3965-3967                        | 5.5  | 191 |
| 266 | Evaluation of different reaction strategies for the improvement of cetane number in diesel fuels. <i>Fuel</i> , <b>2006</b> , 85, 643-656   | 7.1  | 180 |
| 265 | Nucleation of polyvinyl alcohol crystallization by single-walled carbon nanotubes. <i>Polymer</i> , <b>2004</b> , 45, 4437-4443   | 3.9  | 171 |
| 264 | Relationship between the Structure/Composition of CoMo Catalysts and Their Ability to Produce Single-Walled Carbon Nanotubes by CO Disproportionation. <i>Journal of Catalysis</i> , <b>2001</b> , 204, 129-145     | 7.3  | 171 |
| 263 | A Scalable Process for Production of Single-walled Carbon Nanotubes (SWNTs) by Catalytic Disproportionation of CO on a Solid Catalyst. <i>Journal of Nanoparticle Research</i> , <b>2002</b> , 4, 131-136           | 2.3  | 170 |
| 262 | Anisole and Guaiacol Hydrodeoxygenation over Monolithic PtSn Catalysts. <i>Energy &amp; Fuels</i> , <b>2011</b> , 25, 4155-4162   | 4.1  | 169 |
| 261 | Study of Ni catalysts on different supports to obtain synthesis gas. <i>International Journal of Hydrogen Energy</i> , <b>2005</b> , 30, 1399-1405  | 6.7  | 158 |
| 260 | Phase-Selective Catalysis in Emulsions Stabilized by Janus Silica-Nanoparticles. <i>Advanced Synthesis and Catalysis</i> , <b>2010</b> , 352, 2359-2364   | 5.6  | 154 |

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|-----|---|------|-----|
| 259 | Ring opening of decalin and tetralin on HY and Pt/HY zeolite catalysts. <i>Journal of Catalysis</i> , <b>2004</b> , 228, 100-113  | 7.3  | 152 |
| 258 | Characterization of Single-Walled Carbon Nanotubes (SWNTs) Produced by CO Disproportionation on Co/Mo Catalysts. <i>Chemistry of Materials</i> , <b>2002</b> , 14, 1853-1858                          | 9.6  | 152 |
| 257 | Role of Keto Intermediates in the Hydrodeoxygenation of Phenol over Pd on Oxophilic Supports. <i>ACS Catalysis</i> , <b>2015</b> , 5, 1318-1329   | 13.1 | 151 |
| 256 | Antitumor immunologically modified carbon nanotubes for photothermal therapy. <i>Biomaterials</i> , <b>2012</b> , 33, 3235-42   | 15.6 | 150 |
| 255 | Catalytic Deoxygenation of Methyl-Octanoate and Methyl-Stearate on Pt/Al <sub>2</sub> O <sub>3</sub> . <i>Catalysis Letters</i> , <b>2009</b> , 130, 9-18   | 2.8  | 144 |
| 254 | Grafting of Poly(4-vinylpyridine) to Single-Walled Carbon Nanotubes and Assembly of Multilayer Films. <i>Macromolecules</i> , <b>2004</b> , 37, 9963-9967   | 5.5  | 135 |
| 253 | Evaluating strategies for catalytic upgrading of pyrolysis oil in liquid phase. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 145, 10-23  | 21.8 | 134 |
| 252 | Emulsions stabilized by carbon nanotube-silica nanohybrids. <i>Langmuir</i> , <b>2009</b> , 25, 10843-51  | 4    | 130 |
| 251 | Kinetics and mechanism of m-cresol hydrodeoxygenation on a Pt/SiO <sub>2</sub> catalyst. <i>Journal of Catalysis</i> , <b>2014</b> , 317, 22-29   | 7.3  | 128 |
| 250 | Raman spectroscopy of individual single-walled carbon nanotubes from various sources. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 10567-73  | 3.4  | 125 |
| 249 | Hydrodeoxygenation of Phenol over Pd Catalysts. Effect of Support on Reaction Mechanism and Catalyst Deactivation. <i>ACS Catalysis</i> , <b>2017</b> , 7, 2058-2073                                  | 13.1 | 123 |
| 248 | Effect of Promotion with Sn on Supported Pt Catalysts for CO <sub>2</sub> Reforming of CH <sub>4</sub> . <i>Journal of Catalysis</i> , <b>1998</b> , 178, 137-145                                     | 7.3  | 116 |
| 247 | Factors that Determine Zeolite Stability in Hot Liquid Water. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 11810-9  | 16.4 | 115 |
| 246 | Bifunctionality of palladium-based catalysts used in the reduction of nitric oxide by methane in the presence of oxygen. <i>Applied Catalysis B: Environmental</i> , <b>1995</b> , 7, 113-126         | 21.8 | 115 |
| 245 | Tailoring the mesopore structure of HZSM-5 to control product distribution in the conversion of propanal. <i>Journal of Catalysis</i> , <b>2010</b> , 271, 88-98                                      | 7.3  | 114 |
| 244 | Side-Wall Functionalization of Single-Walled Carbon Nanotubes with 4-Hydroxymethylaniline Followed by Polymerization of $\epsilon$ -Caprolactone. <i>Macromolecules</i> , <b>2005</b> , 38, 8258-8263 | 5.5  | 112 |
| 243 | Effect of Zirconia Morphology on Hydrodeoxygenation of Phenol over Pd/ZrO <sub>2</sub> . <i>ACS Catalysis</i> , <b>2015</b> , 5, 7385-7398  | 13.1 | 109 |
| 242 | Aqueous-phase ketonization of acetic acid over Ru/TiO <sub>2</sub> /carbon catalysts. <i>Journal of Catalysis</i> , <b>2012</b> , 295, 169-178  | 7.3  | 108 |

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|-----|--|------|-----|
| 241 | Different Product Distributions and Mechanistic Aspects of the Hydrodeoxygenation of m-Cresol over Platinum and Ruthenium Catalysts. <i>ACS Catalysis</i> , <b>2015</b> , 5, 6271-6283                                     | 13.1 | 107 |
| 240 | Hydrodeoxygenation of m-cresol over gallium-modified beta zeolite catalysts. <i>Journal of Catalysis</i> , <b>2012</b> , 290, 90-100   | 7.3  | 104 |
| 239 | Adsorption of glucose oxidase onto single-walled carbon nanotubes and its application in layer-by-layer biosensors. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 7917-25  | 7.8  | 104 |
| 238 | Role of transalkylation reactions in the conversion of anisole over HZSM-5. <i>Applied Catalysis A: General</i> , <b>2010</b> , 379, 172-181   | 5.1  | 102 |
| 237 | Isobutane Dehydrogenation on Pt <sub>n</sub> /SiO <sub>2</sub> Catalysts: Effect of Preparation Variables and Regeneration Treatments. <i>Journal of Catalysis</i> , <b>1997</b> , 168, 75-94                              | 7.3  | 102 |
| 236 | Effect of nanotube functionalization on the properties of single-walled carbon nanotube/polyurethane composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2007</b> , 45, 490-501 <sup>2,6</sup>     | 2.6  | 102 |
| 235 | Amphiphilic silica nanoparticles at the decane-water interface: insights from atomistic simulations. <i>Langmuir</i> , <b>2011</b> , 27, 5264-74   | 4    | 99  |
| 234 | Conversion of Glycerol to Alkyl-aromatics over Zeolites. <i>Energy &amp; Fuels</i> , <b>2010</b> , 24, 3804-3809   | 4.1  | 97  |
| 233 | Condensation/Hydrogenation of Biomass-Derived Oxygenates in Water/Oil Emulsions Stabilized by Nanohybrid Catalysts. <i>Topics in Catalysis</i> , <b>2012</b> , 55, 38-52   | 2.3  | 95  |
| 232 | Silylated hydrophobic zeolites with enhanced tolerance to hot liquid water. <i>Journal of Catalysis</i> , <b>2013</b> , 308, 82-97   | 7.3  | 94  |
| 231 | Solvent-mediated charge separation drives alternative hydrogenation path of furanics in liquid water. <i>Nature Catalysis</i> , <b>2019</b> , 2, 431-436   | 36.5 | 93  |
| 230 | Pump-Probe Spectroscopy of Exciton Dynamics in (6,5) Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 3831-3835   | 3.8  | 93  |
| 229 | Conversion of Guaiacol over Supported Ru Catalysts. <i>Catalysis Letters</i> , <b>2013</b> , 143, 783-791  | 2.8  | 92  |
| 228 | Modification of the catalytic properties of sulfated zirconia by addition of metal promoters. <i>Catalysis Letters</i> , <b>1995</b> , 32, 253-262   | 2.8  | 90  |
| 227 | Water-Mediated Heterogeneously Catalyzed Reactions. <i>ACS Catalysis</i> , <b>2020</b> , 10, 1294-1309   | 13.1 | 90  |
| 226 | Partial oxidation and CO <sub>2</sub> reforming of methane on Pt/Al <sub>2</sub> O <sub>3</sub> , Pt/ZrO <sub>2</sub> , and Pt/CeZrO <sub>2</sub> catalysts. <i>Fuel Processing Technology</i> , <b>2003</b> , 83, 147-161 | 7.2  | 89  |
| 225 | State of Pd on H-ZSM-5 and other acidic supports during the selective reduction of NO by CH <sub>4</sub> studied by EXAFS/XANES. <i>Applied Catalysis B: Environmental</i> , <b>1997</b> , 14, 13-22                       | 21.8 | 88  |
| 224 | Controlling the growth of vertically oriented single-walled carbon nanotubes by varying the density of CoMo catalyst particles. <i>Chemical Physics Letters</i> , <b>2006</b> , 422, 198-203                               | 2.5  | 87  |

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|-----|---|------|----|
| 223 | Loss of single-walled carbon nanotubes selectivity by disruption of the Co/Mo interaction in the catalyst. <i>Journal of Catalysis</i> , <b>2004</b> , 221, 354-364   | 7.3  | 87 |
| 222 | Structure, activity, and selectivity of bimetallic Pd-Fe/SiO <sub>2</sub> and Pd-Fe/Al <sub>2</sub> O <sub>3</sub> catalysts for the conversion of furfural. <i>Journal of Catalysis</i> , <b>2017</b> , 350, 30-40 | 7.3  | 86 |
| 221 | Stabilization of aqueous carbon nanotube dispersions using surfactants: insights from molecular dynamics simulations. <i>ACS Nano</i> , <b>2010</b> , 4, 7193-204   | 16.7 | 84 |
| 220 | Mechanistic analysis of the role of metal oxophilicity in the hydrodeoxygenation of anisole. <i>Journal of Catalysis</i> , <b>2017</b> , 347, 102-115   | 7.3  | 82 |
| 219 | Efficient Conversion of m-Cresol to Aromatics on a Bifunctional Pt/HBeta Catalyst. <i>Energy &amp; Fuels</i> , <b>2014</b> , 28, 4104-4111  | 4.1  | 80 |
| 218 | Condensation reactions of propanal over CexZr1-xO <sub>2</sub> mixed oxide catalysts. <i>Applied Catalysis A: General</i> , <b>2010</b> , 385, 80-91  | 5.1  | 80 |
| 217 | Role of Oxophilic Supports in the Selective Hydrodeoxygenation of m-Cresol on Pd Catalysts. <i>Catalysis Letters</i> , <b>2014</b> , 144, 2005-2011   | 2.8  | 74 |
| 216 | Composites of Single-Walled Carbon Nanotubes and Polystyrene: Preparation and Electrical Conductivity. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 3120-3126  | 9.6  | 74 |
| 215 | Amphiphilic Nanohybrid Catalysts for Reactions at the Water/Oil Interface in Subsurface Reservoirs. <i>Energy &amp; Fuels</i> , <b>2012</b> , 26, 2231-2241   | 4.1  | 73 |
| 214 | Catalytic deoxygenation of benzaldehyde over gallium-modified ZSM-5 zeolite. <i>Journal of Catalysis</i> , <b>2009</b> , 268, 68-78   | 7.3  | 73 |
| 213 | Direct conversion of triglycerides to olefins and paraffins over noble metal supported catalysts. <i>Fuel</i> , <b>2011</b> , 90, 1155-1165   | 7.1  | 73 |
| 212 | A comparison of the reactivities of propanal and propylene on HZSM-5. <i>Journal of Catalysis</i> , <b>2010</b> , 271, 201-208  | 7.3  | 73 |
| 211 | Zeolite-catalysed C-C bond forming reactions for biomass conversion to fuels and chemicals. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 2543-2559  | 5.5  | 71 |
| 210 | Implementation of concepts derived from model compound studies in the separation and conversion of bio-oil to fuel. <i>Catalysis Today</i> , <b>2015</b> , 257, 185-199   | 5.3  | 69 |
| 209 | Ring opening of 1,2- and 1,3-dimethylcyclohexane on iridium catalysts. <i>Journal of Catalysis</i> , <b>2006</b> , 238, 477-488   | 7.3  | 68 |
| 208 | In situ TPO/Raman to characterize single-walled carbon nanotubes. <i>Chemical Physics Letters</i> , <b>2003</b> , 376, 302-309  | 2.5  | 68 |
| 207 | Role of oxygenates and effect of operating conditions in the deactivation of a Ni supported catalyst during the steam reforming of bio-oil. <i>Green Chemistry</i> , <b>2017</b> , 19, 4315-4333                    | 10   | 65 |
| 206 | Reaction kinetics and mechanism of ketonization of aliphatic carboxylic acids with different carbon chain lengths over Ru/TiO <sub>2</sub> catalyst. <i>Journal of Catalysis</i> , <b>2014</b> , 314, 149-158       | 7.3  | 64 |

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| 205 | Hydrodeoxygenation of m-cresol over bimetallic NiFe alloys: Kinetics and thermodynamics insight into reaction mechanism. <i>Journal of Catalysis</i> , <b>2018</b> , 359, 272-286  | 7.3  | 63 |
| 204 | Role of a phenolic pool in the conversion of m-cresol to aromatics over HY and HZSM-5 zeolites. <i>Applied Catalysis A: General</i> , <b>2014</b> , 487, 62-71   | 5.1  | 63 |
| 203 | Quantifying the semiconducting fraction in single-walled carbon nanotube samples through comparative atomic force and photoluminescence microscopies. <i>Nano Letters</i> , <b>2009</b> , 9, 3203-8  | 11.5 | 62 |
| 202 | Direct catalytic upgrading of biomass pyrolysis vapors by a dual function Ru/TiO <sub>2</sub> catalyst. <i>AIChE Journal</i> , <b>2013</b> , 59, 2275-2285   | 3.6  | 61 |
| 201 | The Effect of Metal Type on Hydrodeoxygenation of Phenol Over Silica Supported Catalysts. <i>Catalysis Letters</i> , <b>2016</b> , 146, 1848-1857  | 2.8  | 58 |
| 200 | Influence of a Top Crust of Entangled Nanotubes on the Structure of Vertically Aligned Forests of Single-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 5624-5629  | 9.6  | 58 |
| 199 | Competitive hydrogenation of poly-aromatic hydrocarbons on sulfur-resistant bimetallic Pt-Pd catalysts. <i>Applied Catalysis A: General</i> , <b>2004</b> , 262, 241-253   | 5.1  | 58 |
| 198 | Kinetics and Mechanism of Ketonization of Acetic Acid on Ru/TiO <sub>2</sub> Catalyst. <i>Topics in Catalysis</i> , <b>2014</b> , 57, 706-714  | 2.3  | 57 |
| 197 | Effects of HZSM-5 crystallite size on stability and alkyl-aromatics product distribution from conversion of propanal. <i>Catalysis Communications</i> , <b>2010</b> , 11, 977-981  | 3.2  | 57 |
| 196 | Single-walled carbon nanotube pillars: a superhydrophobic surface. <i>Langmuir</i> , <b>2009</b> , 25, 4792-8  | 4    | 55 |
| 195 | Composites of Single-Walled Carbon Nanotubes and Styrene-Isoprene Copolymer Latices. <i>Macromolecular Chemistry and Physics</i> , <b>2007</b> , 208, 446-456  | 2.6  | 54 |
| 194 | Deoxygenation of methylesters over CsNaX. <i>Journal of Catalysis</i> , <b>2008</b> , 258, 199-209   | 7.3  | 53 |
| 193 | Characterization of the morphology of Pt clusters incorporated in a KL zeolite by vapor phase and incipient wetness impregnation. Influence of Pt particle morphology on aromatization activity and deactivation. <i>Applied Catalysis A: General</i> , <b>1999</b> , 188, 79-98 | 5.1  | 52 |
| 192 | NO reduction by CH <sub>4</sub> in the presence of excess O <sub>2</sub> over Pd/sulfated zirconia catalysts. <i>Catalysis Today</i> , <b>1999</b> , 54, 419-429   | 5.3  | 52 |
| 191 | What Should We Demand from the Catalysts Responsible for Upgrading Biomass Pyrolysis Oil?. <i>Journal of Physical Chemistry Letters</i> , <b>2011</b> , 2, 2294-2295   | 6.4  | 51 |
| 190 | Conversion of methylesters to hydrocarbons over an H-ZSM5 zeolite catalyst. <i>Applied Catalysis A: General</i> , <b>2009</b> , 361, 99-105  | 5.1  | 50 |
| 189 | Enhancement of m-Cresol Hydrodeoxygenation Selectivity on Ni Catalysts by Surface Decoration of MoO <sub>x</sub> Species. <i>ACS Catalysis</i> , <b>2019</b> , 9, 7791-7800  | 13.1 | 49 |
| 188 | X-ray absorption near-edge structure evidence for direct metal-metal bonding and electron transfer in reduced rhodium/titania catalysts. <i>The Journal of Physical Chemistry</i> , <b>1988</b> , 92, 189-193  |      | 48 |

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|-----|--|------|----|
| 187 | Ring contraction and selective ring opening of naphthenic molecules for octane number improvement. <i>Applied Catalysis A: General</i> , <b>2007</b> , 325, 175-187  | 5.1  | 47 |
| 186 | Role of Co/W Interaction in the Selective Growth of Single-Walled Carbon Nanotubes from CO Disproportionation. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 3738-3746   | 3.4  | 47 |
| 185 | Sulfated zirconia and tungstated zirconia as effective supports for Pd-based SCR catalysts. <i>Catalysis Today</i> , <b>2000</b> , 62, 159-165   | 5.3  | 46 |
| 184 | Hydrogenation and Hydrodeoxygenation of 2-methyl-2-pentenal on supported metal catalysts. <i>Journal of Catalysis</i> , <b>2009</b> , 266, 9-14  | 7.3  | 45 |
| 183 | Deoxygenation of benzaldehyde over CsNaX zeolites. <i>Journal of Molecular Catalysis A</i> , <b>2009</b> , 312, 78-86  |      | 45 |
| 182 | Characterization of the interaction between rhodium and titanium oxide by XPS. <i>Journal of Catalysis</i> , <b>1982</b> , 77, 301-303   | 7.3  | 45 |
| 181 | Catalytic upgrading of biomass pyrolysis vapors and model compounds using niobia supported Pd catalyst. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 238, 38-50   | 21.8 | 44 |
| 180 | Targeting single-walled carbon nanotubes for the treatment of breast cancer using photothermal therapy. <i>Nanotechnology</i> , <b>2013</b> , 24, 375104   | 3.4  | 44 |
| 179 | Nanostructured carbon-metal oxide hybrids as amphiphilic emulsion catalysts. <i>ChemSusChem</i> , <b>2011</b> , 4, 964-74  | 8.3  | 44 |
| 178 | Molecular engineering approach in the selection of catalytic strategies for upgrading of biofuels. <i>AIChE Journal</i> , <b>2009</b> , 55, 1082-1089  | 3.6  | 43 |
| 177 | Inhibition of the Hydrogenation and Hydrodesulfurization Reactions by Nitrogen Compounds over NiMo/Al <sub>2</sub> O <sub>3</sub> . <i>Catalysis Letters</i> , <b>2008</b> , 123, 181-185  | 2.8  | 43 |
| 176 | Isobutane dehydrogenation over sulfided nickel catalysts. <i>Journal of Catalysis</i> , <b>1994</b> , 146, 40-55   | 7.3  | 43 |
| 175 | Single-walled carbon nanotubes of controlled diameter and bundle size and their field emission properties. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 14375-81  | 3.4  | 42 |
| 174 | Hydrodeoxygenation of guaiacol over bimetallic Fe-alloyed (Ni, Pt) surfaces: reaction mechanism, transition-state scaling relations and descriptor for predicting C-O bond scission reactivity. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 2146-2158 | 5.5  | 41 |
| 173 | Zeolite Catalysis: Water Can Dramatically Increase or Suppress Alkane C-H Bond Activation. <i>ACS Catalysis</i> , <b>2014</b> , 4, 3039-3044   | 13.1 | 41 |
| 172 | Comparative study of the hydrogenation of tetralin on supported Ni, Pt, and Pd catalysts. <i>Catalysis Today</i> , <b>2007</b> , 123, 218-223  | 5.3  | 41 |
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