Daniel E Resasco

List of Publications by Year
in descending order

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296 papers	24,206 citations	5896 81 h-index	8866 145 g-index
307 all docs	307 docs citations	307 times ranked	18592 citing authors

#	Article	IF	Citations
1	Narrow (n,m)-Distribution of Single-Walled Carbon Nanotubes Grown Using a Solid Supported Catalyst. Journal of the American Chemical Society, 2003, 125, 11186-11187.	13.7	807
2	Solid Nanoparticles that Catalyze Biofuel Upgrade Reactions at the Water/Oil Interface. Science, 2010, 327, 68-72.	12.6	719
3	Controlled production of single-wall carbon nanotubes by catalytic decomposition of CO on bimetallic Coâ€“Mo catalysts. Chemical Physics Letters, 2000, 317, 497-503.	2.6	618
4	Dispersion of Single-Walled Carbon Nanotubes in Aqueous Solutions of the Anionic Surfactant NaDDBS. Journal of Physical Chemistry B, 2003, 107, 13357-13367.	2.6	569
5	Hydrodeoxygenation of Furfural Over Supported Metal Catalysts: A Comparative Study of Cu, Pd and Ni. Catalysis Letters, 2011, 141, 784-791.	2.6	514
6	Kinetics and mechanism of hydrogenation of furfural on Cu/SiO2 catalysts. Journal of Catalysis, 2011, 277, 1-13.	6.2	487
7	Selective conversion of furfural to methylfuran over silica-supported NiFe bimetallic catalysts. Journal of Catalysis, 2011, 284, 90-101.	6.2	463
8	Bifunctional transalkylation and hydrodeoxygenation of anisole over a Pt/HBeta catalyst. Journal of Catalysis, 2011, 281, 21-29.	6.2	450
9	Metalâ€“Support Interaction: Group VIII Metals and Reducible Oxides. Advances in Catalysis, 1989, 36, 173-235.	0.2	400
10	Polymer Brushes on Single-Walled Carbon Nanotubes by Atom Transfer Radical Polymerization ofn-Butyl Methacrylate. Journal of the American Chemical Society, 2004, 126, 170-176.	13.7	391
11	A novel hybrid carbon material. Nature Nanotechnology, 2007, 2, 156-161.	31.5	369
12	Water Solubilization of Single-Walled Carbon Nanotubes by Functionalization with Glucosamine. Nano Letters, 2002, 2, 369-373.	9.1	360
13	Ketonization of Carboxylic Acids: Mechanisms, Catalysts, and Implications for Biomass Conversion. ACS Catalysis, 2013, 3, 2456-2473.	11.2	359
14	Nucleation of Polypropylene Crystallization by Single-Walled Carbon Nanotubes. Journal of Physical Chemistry B, 2002, 106, 5852-5858.	2.6	347
15	Functionalization of Single-Walled Carbon Nanotubes with Polystyrene via Grafting to and Grafting from Methods. Macromolecules, 2004, 37, 752-757.	4.8	338
16	Conversion of furfural and 2-methylpentanal on Pd/SiO2 and Pdâ€“Cu/SiO2 catalysts. Journal of Catalysis, 2011, 280, 17-27.	6.2	323
17	A model of metal-oxide support interaction for Rh on TiO2. Journal of Catalysis, 1983, 82, 279-288.	6.2	301
18	Hydrophobic Zeolites for Biofuel Upgrading Reactions at the Liquidâ€“Liquid Interface in Water/Oil Emulsions. Journal of the American Chemical Society, 2012, 134, 8570-8578.	13.7	291

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19	Cancer photothermal therapy in the near-infrared region by using single-walled carbon nanotubes. Journal of Biomedical Optics, 2009, 14, 021009.	2.6	273
20	CO2 Reforming of CH4 over Pt/ZrO2 Catalysts Promoted with La and Ce Oxides. Journal of Catalysis, 2000, 194, 240-249.	6.2	271
21	SWNT-Filled Thermoplastic and Elastomeric Composites Prepared by Miniemulsion Polymerization. Nano Letters, 2002, 2, 797-802.	9.1	271
22	Tailoring (n,m) Structure of Single-Walled Carbon Nanotubes by Modifying Reaction Conditions and the Nature of the Support of CoMo Catalysts. Journal of Physical Chemistry B, 2006, 110, 2108-2115.	2.6	261
23	Synergism of Co and Mo in the catalytic production of single-wall carbon nanotubes by decomposition of CO. Carbon, 2001, 39, 547-558.	10.3	258
24	Dispersion of Single-Walled Carbon Nanotubes of Narrow Diameter Distribution. Journal of Physical Chemistry B, 2005, 109, 14454-14460.	2.6	254
25	Selective conversion of m-cresol to toluene over bimetallic Niâ€“Fe catalysts. Journal of Molecular Catalysis A, 2014, 388-389, 47-55.	4.8	243
26	Effect of Mild Nitric Acid Oxidation on Dispersability, Size, and Structure of Single-Walled Carbon Nanotubes. Chemistry of Materials, 2007, 19, 5765-5772.	6.7	230
27	Correlation between catalytic activity and support reducibility in the CO2 reforming of methane over Pt/CexZr1â^'xO2 catalysts. Chemical Engineering Journal, 2001, 82, 21-31.	12.7	214
28	Solubilization and Purification of Single-Wall Carbon Nanotubes in Water by in Situ Radical Polymerization of Sodium 4-Styrenesulfonate. Macromolecules, 2004, 37, 3965-3967.	4.8	209
29	Evaluation of different reaction strategies for the improvement of cetane number in diesel fuels. Fuel, 2006, 85, 643-656.	6.4	198
30	Title is missing!. Journal of Nanoparticle Research, 2002, 4, 131-136.	1.9	190
31	Anisole and Guaiacol Hydrodeoxygenation over Monolithic Ptâ€“Sn Catalysts. Energy & Fuels, 2011, 25, 4155-4162.	5.1	190
32	Relationship between the Structure/Composition of Coâ€“Mo Catalysts and Their Ability to Produce Single-Walled Carbon Nanotubes by CO Disproportionation. Journal of Catalysis, 2001, 204, 129-145.	6.2	189
33	Role of Keto Intermediates in the Hydrodeoxygenation of Phenol over Pd on Oxophilic Supports. ACS Catalysis, 2015, 5, 1318-1329.	11.2	186
34	Antitumor immunologically modified carbon nanotubes for photothermal therapy. Biomaterials, 2012, 33, 3235-3242.	11.4	183
35	Nucleation of polyvinyl alcohol crystallization by single-walled carbon nanotubes. Polymer, 2004, 45, 4437-4443.	3.8	177
36	Ring opening of decalin and tetralin on HY and Pt/HY zeolite catalysts. Journal of Catalysis, 2004, 228, 100-113.	6.2	174

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37	Study of Ni catalysts on different supports to obtain synthesis gas. International Journal of Hydrogen Energy, 2005, 30, 1399-1405.	7.1	173
38	Hydrodeoxygenation of Phenol over Pd Catalysts. Effect of Support on Reaction Mechanism and Catalyst Deactivation. ACS Catalysis, 2017, 7, 2058-2073.	11.2	171
39	Solvent-mediated charge separation drives alternative hydrogenation path of furanics in liquid water. Nature Catalysis, 2019, 2, 431-436.	34.4	171
40	Phaseâ€Selective Catalysis in Emulsions Stabilized by Janus Silicaâ€Nanoparticles. Advanced Synthesis and Catalysis, 2010, 352, 2359-2364.	4.3	168
41	Characterization of Single-Walled Carbon Nanotubes (SWNTs) Produced by CO Disproportionation on Coâˆ'Mo Catalysts. Chemistry of Materials, 2002, 14, 1853-1858.	6.7	163
42	Water-Mediated Heterogeneously Catalyzed Reactions. ACS Catalysis, 2020, 10, 1294-1309.	11.2	156
43	Kinetics and mechanism of m-cresol hydrodeoxygenation on a Pt/SiO2 catalyst. Journal of Catalysis, 2014, 317, 22-29.	6.2	154
44	Factors that Determine Zeolite Stability in Hot Liquid Water. Journal of the American Chemical Society, 2015, 137, 11810-11819.	13.7	154
45	Emulsions Stabilized by Carbon Nanotubeâˆ'Silica Nanohybrids. Langmuir, 2009, 25, 10843-10851.	3.5	151
46	Evaluating strategies for catalytic upgrading of pyrolysis oil in liquid phase. Applied Catalysis B: Environmental, 2014, 145, 10-23.	20.2	151
47	Catalytic Deoxygenation of Methyl-Octanoate and Methyl-Stearate on Pt/Al2O3. Catalysis Letters, 2009, 130, 9-18.	2.6	150
48	Grafting of Poly(4-vinylpyridine) to Single-Walled Carbon Nanotubes and Assembly of Multilayer Films. Macromolecules, 2004, 37, 9963-9967.	4.8	145
49	Effect of Promotion with Sn on Supported Pt Catalysts for CO2Reforming of CH4. Journal of Catalysis, 1998, 178, 137-145.	6.2	140
50	Different Product Distributions and Mechanistic Aspects of the Hydrodeoxygenation of m-Cresol over Platinum and Ruthenium Catalysts. ACS Catalysis, 2015, 5, 6271-6283.	11.2	137
51	Effect of Zirconia Morphology on Hydrodeoxygenation of Phenol over Pd/ZrO₂. ACS Catalysis, 2015, 5, 7385-7398.	11.2	137
52	Raman Spectroscopy of Individual Single-Walled Carbon Nanotubes from Various Sources. Journal of Physical Chemistry B, 2005, 109, 10567-10573.	2.6	133
53	Tailoring the mesopore structure of HZSM-5 to control product distribution in the conversion of propanal. Journal of Catalysis, 2010, 271, 88-98.	6.2	128
54	Adsorption of Glucose Oxidase onto Single-Walled Carbon Nanotubes and Its Application in Layer-By-Layer Biosensors. Analytical Chemistry, 2009, 81, 7917-7925.	6.5	123

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55	Aqueous-phase ketonization of acetic acid over Ru/TiO2/carbon catalysts. Journal of Catalysis, 2012, 295, 169-178.	6.2	122
56	Isobutane Dehydrogenation on Ptâ€“Sn/SiO2Catalysts: Effect of Preparation Variables and Regeneration Treatments. Journal of Catalysis, 1997, 168, 75-94.	6.2	121
57	Effect of nanotube functionalization on the properties of single-walled carbon nanotube/polyurethane composites. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 490-501.	2.1	121
58	Hydrodeoxygenation of m-cresol over gallium-modified beta zeolite catalysts. Journal of Catalysis, 2012, 290, 90-100.	6.2	120
59	Side-Wall Functionalization of Single-Walled Carbon Nanotubes with 4-Hydroxymethylaniline Followed by Polymerization of Îµ-Caprolactone. Macromolecules, 2005, 38, 8258-8263.	4.8	118
60	Bifunctionality of palladium-based catalysts used in the reduction of nitric oxide by methane in the presence of oxygen. Applied Catalysis B: Environmental, 1995, 7, 113-126.	20.2	115
61	Amphiphilic Silica Nanoparticles at the Decaneâ^'Water Interface: Insights from Atomistic Simulations. Langmuir, 2011, 27, 5264-5274.	3.5	115
62	Role of transalkylation reactions in the conversion of anisole over HZSM-5. Applied Catalysis A: General, 2010, 379, 172-181.	4.3	113
63	Condensation/Hydrogenation of Biomass-Derived Oxygenates in Water/Oil Emulsions Stabilized by Nanohybrid Catalysts. Topics in Catalysis, 2012, 55, 38-52.	2.8	113
64	Modification of the catalytic properties of sulfated zirconia by addition of metal promoters. Catalysis Letters, 1995, 32, 253-262.	2.6	107
65	Conversion of Glycerol to Alkyl-aromatics over Zeolites. Energy & Fuels, 2010, 24, 3804-3809.	5.1	107
66	Silylated hydrophobic zeolites with enhanced tolerance to hot liquid water. Journal of Catalysis, 2013, 308, 82-97.	6.2	107
67	Mechanistic analysis of the role of metal oxophilicity in the hydrodeoxygenation of anisole. Journal of Catalysis, 2017, 347, 102-115.	6.2	107
68	Conversion of Guaiacol over Supported Ru Catalysts. Catalysis Letters, 2013, 143, 783-791.	2.6	106
69	Pump-Probe Spectroscopy of Exciton Dynamics in (6,5) Carbon Nanotubes. Journal of Physical Chemistry C, 2007, 111, 3831-3835.	3.1	105
70	Structure, activity, and selectivity of bimetallic Pd-Fe/SiO2 and Pd-Fe/Î³-Al2O3 catalysts for the conversion of furfural. Journal of Catalysis, 2017, 350, 30-40.	6.2	105
71	State of Pd on H-ZSM-5 and other acidic supports during the selective reduction of NO by CH4 studied by EXAFS/XANES. Applied Catalysis B: Environmental, 1997, 14, 13-22.	20.2	102
72	Partial oxidation and CO2 reforming of methane on Pt/Al2O3, Pt/ZrO2, and Pt/Ceâ€“ZrO2 catalysts. Fuel Processing Technology, 2003, 83, 147-161.	7.2	98

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73	Efficient Conversion of <i>m</i>-Cresol to Aromatics on a Bifunctional Pt/HBeta Catalyst. Energy & Fuels, 2014, 28, 4104-4111.	5.1	98
74	Loss of single-walled carbon nanotubes selectivity by disruption of the Coâ€“Mo interaction in the catalyst. Journal of Catalysis, 2004, 221, 354-364.	6.2	97
75	Role of oxygenates and effect of operating conditions in the deactivation of a Ni supported catalyst during the steam reforming of bio-oil. Green Chemistry, 2017, 19, 4315-4333.	9.0	97
76	Hydrodeoxygenation of m-cresol over bimetallic NiFe alloys: Kinetics and thermodynamics insight into reaction mechanism. Journal of Catalysis, 2018, 359, 272-286.	6.2	95
77	Enhancement of <i>m</i>-Cresol Hydrodeoxygenation Selectivity on Ni Catalysts by Surface Decoration of MoO_{<i>x</i>} Species. ACS Catalysis, 2019, 9, 7791-7800.	11.2	95
78	Stabilization of Aqueous Carbon Nanotube Dispersions Using Surfactants: Insights from Molecular Dynamics Simulations. ACS Nano, 2010, 4, 7193-7204.	14.6	93
79	Controlling the growth of vertically oriented single-walled carbon nanotubes by varying the density of CoMo catalyst particles. Chemical Physics Letters, 2006, 422, 198-203.	2.6	92
80	Catalytic deoxygenation of benzaldehyde over gallium-modified ZSM-5 zeolite. Journal of Catalysis, 2009, 268, 68-78.	6.2	86
81	Condensation reactions of propanal over CexZr1âˆ’xO2 mixed oxide catalysts. Applied Catalysis A: General, 2010, 385, 80-91.	4.3	86
82	Zeolite-catalysed Câ€“C bond forming reactions for biomass conversion to fuels and chemicals. Catalysis Science and Technology, 2016, 6, 2543-2559.	4.1	84
83	Role of Oxophilic Supports in the Selective Hydrodeoxygenation of m-Cresol on Pd Catalysts. Catalysis Letters, 2014, 144, 2005-2011.	2.6	82
84	The Effect of Metal Type on Hydrodeoxygenation of Phenol Over Silica Supported Catalysts. Catalysis Letters, 2016, 146, 1848-1857.	2.6	82
85	A comparison of the reactivities of propanal and propylene on HZSM-5. Journal of Catalysis, 2010, 271, 201-208.	6.2	81
86	Direct conversion of triglycerides to olefins and paraffins over noble metal supported catalysts. Fuel, 2011, 90, 1155-1165.	6.4	80
87	Role of a phenolic pool in the conversion of m-cresol to aromatics over HY and HZSM-5 zeolites. Applied Catalysis A: General, 2014, 487, 62-71.	4.3	79
88	In situ TPO/Raman to characterize single-walled carbon nanotubes. Chemical Physics Letters, 2003, 376, 302-309.	2.6	77
89	Amphiphilic Nanohybrid Catalysts for Reactions at the Water/Oil Interface in Subsurface Reservoirs. Energy & Fuels, 2012, 26, 2231-2241.	5.1	77
90	Reaction kinetics and mechanism of ketonization of aliphatic carboxylic acids with different carbon chain lengths over Ru/TiO2 catalyst. Journal of Catalysis, 2014, 314, 149-158.	6.2	76

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91	Implementation of concepts derived from model compound studies in the separation and conversion of bio-oil to fuel. Catalysis Today, 2015, 257, 185-199.	4.4	76
92	Catalytic upgrading of biomass pyrolysis vapors and model compounds using niobia supported Pd catalyst. Applied Catalysis B: Environmental, 2018, 238, 38-50.	20.2	76
93	Composites of Single-Walled Carbon Nanotubes and Polystyrene: Preparation and Electrical Conductivity. Chemistry of Materials, 2008, 20, 3120-3126.	6.7	75
94	Ring opening of 1,2- and 1,3-dimethylcyclohexane on iridium catalysts. Journal of Catalysis, 2006, 238, 477-488.	6.2	74
95	Characterization of the interaction between rhodium and titanium oxide by XPS. Journal of Catalysis, 1982, 77, 301-303.	6.2	71
96	Direct catalytic upgrading of biomass pyrolysis vapors by a dual function Ru/TiO₂ catalyst. AICHE Journal, 2013, 59, 2275-2285.	3.6	68
97	Kinetics and Mechanism of Ketonization of Acetic Acid on Ru/TiO2 Catalyst. Topics in Catalysis, 2014, 57, 706-714.	2.8	68
98	Relationship between Atomic Scale Structure and Reactivity of Pt Catalysts: Hydrodeoxygenation of <i>m</i>-Cresol over Isolated Pt Cations and Clusters. ACS Catalysis, 2020, 10, 595-603.	11.2	68
99	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. Applied Catalysis A: General, 1999, 188, 79-98.	4.3	67
100	Distributed processes for biomass conversion could aid UN Sustainable Development Goals. Nature Catalysis, 2018, 1, 731-735.	34.4	66
101	Quantifying the Semiconducting Fraction in Single-Walled Carbon Nanotube Samples through Comparative Atomic Force and Photoluminescence Microscopies. Nano Letters, 2009, 9, 3203-3208.	9.1	65
102	Competitive hydrogenation of poly-aromatic hydrocarbons on sulfur-resistant bimetallic Pt-Pd catalysts. Applied Catalysis A: General, 2004, 262, 241-253.	4.3	63
103	Deoxygenation of methylesters over CsNaX. Journal of Catalysis, 2008, 258, 199-209.	6.2	62
104	What Should We Demand from the Catalysts Responsible for Upgrading Biomass Pyrolysis Oil?. Journal of Physical Chemistry Letters, 2011, 2, 2294-2295.	4.6	62
105	NO reduction by CH4 in the presence of excess O2 over Pd/sulfated zirconia catalysts. Catalysis Today, 1999, 54, 419-429.	4.4	60
106	Influence of a Top Crust of Entangled Nanotubes on the Structure of Vertically Aligned Forests of Single-Walled Carbon Nanotubes. Chemistry of Materials, 2006, 18, 5624-5629.	6.7	60
107	Single-Walled Carbon Nanotube Pillars: A Superhydrophobic Surface. Langmuir, 2009, 25, 4792-4798.	3.5	60
108	Conversion of methylesters to hydrocarbons over an H-ZSM5 zeolite catalyst. Applied Catalysis A: General, 2009, 361, 99-105.	4.3	59

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109	Effects of HZSM-5 crystallite size on stability and alkyl-aromatics product distribution from conversion of propanal. Catalysis Communications, 2010, 11, 977-981.	3.3	58
110	Composites of Single-Walled Carbon Nanotubes and Styrene-Isoprene Copolymer Latices. Macromolecular Chemistry and Physics, 2007, 208, 446-456.	2.2	57
111	Hydrodeoxygenation of Phenol over Zirconiaâ€Supported Catalysts: The Effect of Metal Type on Reaction Mechanism and Catalyst Deactivation. ChemCatChem, 2017, 9, 2850-2863.	3.7	57
112	X-ray absorption near-edge structure evidence for direct metal-metal bonding and electron transfer in reduced rhodium/titania catalysts. The Journal of Physical Chemistry, 1988, 92, 189-193.	2.9	56
113	Zeolite Catalysis: Water Can Dramatically Increase or Suppress Alkane Câ€"H Bond Activation. ACS Catalysis, 2014, 4, 3039-3044.	11.2	56
114	Hydrodeoxygenation of guaiacol over bimetallic Fe-alloyed (Ni, Pt) surfaces: reaction mechanism, transition-state scaling relations and descriptor for predicting Câ€"O bond scission reactivity. Catalysis Science and Technology, 2018, 8, 2146-2158.	4.1	56
115	The role of defect sites and oxophilicity of the support on the phenol hydrodeoxygenation reaction. Applied Catalysis B: Environmental, 2019, 249, 292-305.	20.2	56
116	Targeting single-walled carbon nanotubes for the treatment of breast cancer using photothermal therapy. Nanotechnology, 2013, 24, 375104.	2.6	55
117	Ring contraction and selective ring opening of naphthenic molecules for octane number improvement. Applied Catalysis A: General, 2007, 325, 175-187.	4.3	54
118	Sulfated zirconia and tungstated zirconia as effective supports for Pd-based SCR catalysts. Catalysis Today, 2000, 62, 159-165.	4.4	53
119	Simultaneous Hydrogenation of Multiring Aromatic Compounds over NiMo Catalyst. Industrial & Engineering Chemistry Research, 2008, 47, 7161-7166.	3.7	53
120	Role of Coâ^'W Interaction in the Selective Growth of Single-Walled Carbon Nanotubes from CO Disproportionation. Journal of Physical Chemistry B, 2003, 107, 3738-3746.	2.6	52
121	Isobutane dehydrogenation over sulfided nickel catalysts. Journal of Catalysis, 1994, 146, 40-55.	6.2	50
122	Inhibition of the Hydrogenation and Hydrodesulfurization Reactions by Nitrogen Compounds over NiMo/Al2O3. Catalysis Letters, 2008, 123, 181-185.	2.6	50
123	Nanostructured Carbonâ€"Metal Oxide Hybrids as Amphiphilic Emulsion Catalysts. ChemSusChem, 2011, 4, 964-974.	6.8	49
124	Single-Walled Carbon Nanotubes of Controlled Diameter and Bundle Size and Their Field Emission Properties. Journal of Physical Chemistry B, 2005, 109, 14375-14381.	2.6	48
125	Comparative study of the hydrogenation of tetralin on supported Ni, Pt, and Pd catalysts. Catalysis Today, 2007, 123, 218-223.	4.4	48
126	Improving stability of cyclopentanone aldol condensation MgO-based catalysts by surface hydrophobization with organosilanes. Applied Catalysis B: Environmental, 2018, 237, 835-843.	20.2	48

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127	Hydrogenation and Hydrodeoxygenation of 2-methyl-2-pentenal on supported metal catalysts. Journal of Catalysis, 2009, 266, 9-14.	6.2	47
128	Confirmation of K-Momentum Dark Exciton Vibronic Sidebands Using ¹³C-labeled, Highly Enriched (6,5) Single-walled Carbon Nanotubes. Nano Letters, 2012, 12, 1398-1403.	9.1	47
129	Title is missing!. Catalysis Letters, 2003, 90, 13-21.	2.6	46
130	Deoxygenation of benzaldehyde over CsNaX zeolites. Journal of Molecular Catalysis A, 2009, 312, 78-86.	4.8	46
131	Effect of Metalâ€“Acid Balance on Hydroprocessed Renewable Jet Fuel Synthesis from Hydrocracking and Hydroisomerization of Biohydrogenated Diesel over Pt-Supported Catalysts. Industrial & Engineering Chemistry Research, 2018, 57, 1429-1440.	3.7	46
132	Synergistic effect of oxygen vacancies and highly dispersed Pd nanoparticles over Pd-loaded TiO2 prepared by a single-step solâ€“gel process for deoxygenation of triglycerides. Applied Catalysis A: General, 2018, 566, 74-86.	4.3	46
133	CO Adsorption on Noble Metal Clusters: Local Environment Effects. Journal of Physical Chemistry C, 2011, 115, 5637-5647.	3.1	45
134	Catalyst decomposition during temperature programmed desorption of bases from promoted sulfated zirconias. Catalysis Letters, 1995, 34, 23-30.	2.6	44
135	Study of preparation parameters of powder and pelletized Pt/KL catalysts for n-hexane aromatization. Applied Catalysis A: General, 2001, 206, 267-282.	4.3	44
136	Molecular engineering approach in the selection of catalytic strategies for upgrading of biofuels. AICHE Journal, 2009, 55, 1082-1089.	3.6	44
137	Raman intensity measurements of single-walled carbon nanotube suspensions as a quantitative technique to assess purity. Carbon, 2010, 48, 2873-2881.	10.3	44
138	Temperature Programmed Oxidation Coupled with Inâ€…Situ Techniques Reveal the Nature and Location of Coke Deposited on a Ni/La₂O₃â€Î±Al₂O₃ Catalyst in the Steam Reforming of Bioâ€oil. ChemCatChem, 2018, 10, 2311-2321.	3.7	44
139	Comparative Study ofn-Hexane Aromatization on Pt/KL, Pt/Mg(Al)O, and Pt/SiO2Catalysts: Clean and Sulfur-Containing Feeds. Journal of Catalysis, 1998, 179, 43-55.	6.2	43
140	n-Octane aromatization on a Pt/KL catalyst prepared by vapor-phase impregnation. Journal of Catalysis, 2003, 218, 1-11.	6.2	43
141	Induction of activity and deactivation of Fe, Mn-promoted sulfated zirconia catalysts. Catalysis Today, 1996, 28, 415-429.	4.4	42
142	Tuning the acidâ€“metal balance in Pd/ and Pt/zeolite catalysts for the hydroalkylation of m-cresol. Journal of Catalysis, 2015, 328, 173-185.	6.2	42
143	Stabilization of the active phase by interaction with the support in CuCl2 oxychlorination catalysts. Journal of Catalysis, 1986, 99, 12-18.	6.2	41
144	Hydride transfer between a phenolic surface pool and reactant paraffins in the catalytic cracking of m-cresol/hexanes mixtures over an HY zeolite. Journal of Catalysis, 2015, 329, 57-68.	6.2	41

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145	Multistage torrefaction and in situ catalytic upgrading to hydrocarbon biofuels: analysis of life cycle energy use and greenhouse gas emissions. Energy and Environmental Science, 2017, 10, 1034-1050.	30.8	41
146	Role of the metal-support interface in the hydrodeoxygenation reaction of phenol. Applied Catalysis B: Environmental, 2020, 277, 119238.	20.2	41
147	Deactivation of Niâ€"Mo/Al2O3 catalysts aged in a commercial reactor during the hydrotreating of deasphalted vacuum residuum. Applied Catalysis A: General, 2000, 199, 263-273.	4.3	40
148	Improving carbon retention in biomass conversion by alkylation of phenolics with small oxygenates. Applied Catalysis A: General, 2012, 447-448, 14-21.	4.3	40
149	Water Interactions in Zeolite Catalysts and Their Hydrophobically Modified Analogues. ACS Catalysis, 2015, 5, 7480-7487.	11.2	40
150	Potential Role of Penta-Coordinated Sulfur in the Acid Site Structure of Sulfated Zirconia. Journal of Catalysis, 1995, 157, 755-758.	6.2	39
151	Phosphatidylserine targeted single-walled carbon nanotubes for photothermal ablation of bladder cancer. Nanotechnology, 2018, 29, 035101.	2.6	38
152	Role of water in cyclopentanone self-condensation reaction catalyzed by MCM-41 functionalized with sulfonic acid groups. Journal of Catalysis, 2019, 377, 245-254.	6.2	38
153	Aldol Condensation of Cyclopentanone on Hydrophobized MgO. Promotional Role of Water and Changes in the Rate-Limiting Step upon Organosilane Functionalization. ACS Catalysis, 2019, 9, 2831-2841.	11.2	38
154	Increased Sulfur Tolerance of Pt/KL Catalysts Prepared by Vapor-Phase Impregnation and Containing a Tm Promoter. Journal of Catalysis, 2000, 191, 116-127.	6.2	37
155	Role of the Catalyst in the Growth of Single-Wall Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2006, 6, 1247-1258.	0.9	37
156	Silica Nanoparticle Wettability: Characterization and Effects on the Emulsion Properties. Industrial & Engineering Chemistry Research, 2015, 54, 4274-4284.	3.7	37
157	Decoupling HZSMâ€5 Catalyst Activity from Deactivation during Upgrading of Pyrolysis Oil Vapors. ChemSusChem, 2015, 8, 552-559.	6.8	37
158	n-Octane aromatization over Pt/KL of varying morphology and channel lengths. Applied Catalysis A: General, 2006, 313, 189-199.	4.3	36
159	Gluconic Acid from Biomass Fast Pyrolysis Oils: Specialty Chemicals from the Thermochemical Conversion of Biomass. ChemSusChem, 2014, 7, 3132-3137.	6.8	36
160	Enhanced Activity and Selectivity of Fischerâ€"Tropsch Synthesis Catalysts in Water/Oil Emulsions. ACS Catalysis, 2014, 4, 1944-1952.	11.2	36
161	Retention of biological activity and near-infrared absorbance upon adsorption of horseradish peroxidase on single-walled carbon nanotubes. Nanotechnology, 2007, 18, 235601.	2.6	35
162	Carbon Nanotube/Zeolite Hybrid Catalysts for Glucose Conversion in Water/Oil Emulsions. ACS Catalysis, 2015, 5, 4761-4771.	11.2	35

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