Wei Chu

List of Publications by Year
in descending order

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392	18,071	19608 61	27345 106
papers	citations	h-index	g-index

410	410	410	17069
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Advances in the Development of Novel Cobalt Fischerâ^'Tropsch Catalysts for Synthesis of Long-Chain Hydrocarbons and Clean Fuels. Chemical Reviews, 2007, 107, 1692-1744.	23.0	2,045
2	A contextual-bandit approach to personalized news article recommendation. , 2010, , .		1,194
3	Facile Route for Synthesizing Ordered Mesoporous Niâ€"Ceâ€"Al Oxide Materials and Their Catalytic Performance for Methane Dry Reforming to Hydrogen and Syngas. ACS Catalysis, 2013, 3, 1638-1651.	5.5	362
4	Cobalt species in promoted cobalt alumina-supported Fischerâ€"Tropsch catalysts. Journal of Catalysis, 2007, 252, 215-230.	3.1	262
5	Support Vector Ordinal Regression. Neural Computation, 2007, 19, 792-815.	1.3	256
6	Synthesis, characterization and catalytic performances of Ce-SBA-15 supported nickel catalysts for methane dry reforming to hydrogen and syngas. International Journal of Hydrogen Energy, 2012, 37, 19-30.	3.8	245
7	Methanation of carbon dioxide on Ni/ZrO2-Al2O3 catalysts: Effects of ZrO2 promoter and preparation method of novel ZrO2-Al2O3 carrier. Journal of Natural Gas Chemistry, 2011, 20, 318-324.	1.8	216
8	Unbiased offline evaluation of contextual-bandit-based news article recommendation algorithms. , 2011, , .		212
9	Degradation of benzotriazole by a novel Fenton-like reaction with mesoporous Cu/MnO 2 : Combination of adsorption and catalysis oxidation. Applied Catalysis B: Environmental, 2016, 199, 447-457.	10.8	206
10	Enhanced photocatalytic degradation of ciprofloxacin over Bi2O3/(BiO)2CO3 heterojunctions: Efficiency, kinetics, pathways, mechanisms and toxicity evaluation. Chemical Engineering Journal, 2018, 334, 453-461.	6.6	198
11	A comparison study on methane dry reforming with carbon dioxide over LaNiO3 perovskite catalysts supported on mesoporous SBA-15, MCM-41 and silica carrier. Catalysis Today, 2013, 212, 98-107.	2.2	181
12	Preference learning with Gaussian processes. , 2005, , .		179
13	New approaches to support vector ordinal regression. , 2005, , .		177
14	Crystal-plane effect of nanoscale CeO₂ on the catalytic performance of Ni/CeO₂ catalysts for methane dry reforming. Catalysis Science and Technology, 2016, 6, 3594-3605.	2.1	170
15	Carbon dioxide reforming of methane for syngas production over La-promoted NiMgAl catalysts derived from hydrotalcites. Chemical Engineering Journal, 2012, 209, 623-632.	6.6	166
16	A selective Au-ZnO/TiO2 hybrid photocatalyst for oxidative coupling of methane to ethane with dioxygen. Nature Catalysis, 2021, 4, 1032-1042.	16.1	156
17	Glowâ€Discharge Plasmaâ€Assisted Design of Cobalt Catalysts for Fischerâ€"Tropsch Synthesis. Angewandte Chemie - International Edition, 2008, 47, 5052-5055.	7.2	149
18	Crossâ€Coupled Macroâ€Mesoporous Carbon Network toward Record High Energyâ€Power Density Supercapacitor at 4 V. Advanced Functional Materials, 2018, 28, 1806153.	7.8	145

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19	Effect of the surface oxygen groups on methane adsorption on coals. Applied Surface Science, 2013, 264, 433-442.	3.1	144
20	A critical study on the adsorption of heterocyclic sulfur and nitrogen compounds by activated carbon: Equilibrium, kinetics and thermodynamics. Chemical Engineering Journal, 2010, 164, 29-36.	6.6	137
21	Sulfate radical-based photo-Fenton reaction derived by CuBi 2 O 4 and its composites with Î±-Bi 2 O 3 under visible light irradiation: Catalyst fabrication, performance and reaction mechanism. Applied Catalysis B: Environmental, 2018, 235, 264-273.	10.8	133
22	Synthesis, characterization and catalytic performance of MgO-coated Ni/SBA-15 catalysts for methane dry reforming to syngas and hydrogen. International Journal of Hydrogen Energy, 2013, 38, 9718-9731.	3.8	131
23	Transition metal-embedded two-dimensional C₃N as a highly active electrocatalyst for oxygen evolution and reduction reactions. Journal of Materials Chemistry A, 2019, 7, 12050-12059.	5.2	123
24	Transition-metal single atoms in nitrogen-doped graphenes as efficient active centers for water splitting: a theoretical study. Physical Chemistry Chemical Physics, 2019, 21, 3024-3032.	1.3	122
25	High-stable Î±-phase NiCo double hydroxide microspheres via microwave synthesis for supercapacitor electrode materials. Chemical Engineering Journal, 2017, 316, 277-287.	6.6	118
26	Environmental Remediation Applications of Carbon Nanotubes and Graphene Oxide: Adsorption and Catalysis. Nanomaterials, 2019, 9, 439.	1.9	117
27	One-step solvothermal synthesis of Fe₃O₄@C coreâ€“shell nanoparticles with tunable sizes. Nanotechnology, 2012, 23, 165601.	1.3	112
28	Mesoporous nickel catalyst supported on multi-walled carbon nanotubes for carbon dioxide methanation. International Journal of Hydrogen Energy, 2016, 41, 967-975.	3.8	109
29	Manganese promoting effects on the Coâ€“Ceâ€“Zrâ€“Ox nano catalysts for methane dry reforming with carbon dioxide to hydrogen and carbon monoxide. Chemical Engineering Journal, 2011, 170, 457-463.	6.6	108
30	Fractal characterization and methane adsorption features of coal particles taken from shallow and deep coalmine layers. Fuel, 2015, 155, 7-13.	3.4	108
31	Bayesian Support Vector Regression Using a Unified Loss Function. IEEE Transactions on Neural Networks, 2004, 15, 29-44.	4.8	106
32	Biomarker discovery in microarray gene expression data with Gaussian processes. Bioinformatics, 2005, 21, 3385-3393.	1.8	105
33	UiO-66-NH2/GO Composite: Synthesis, Characterization and CO2 Adsorption Performance. Materials, 2018, 11, 589.	1.3	105
34	Enhanced hydrogen storage on Li-doped defective graphene with B substitution: A DFT study. Applied Surface Science, 2017, 410, 166-176.	3.1	104
35	Cobalt species and cobalt-support interaction in glow discharge plasma-assisted Fischerâ€“Tropsch catalysts. Journal of Catalysis, 2010, 273, 9-17.	3.1	103
36	Ozonation of phenacetin in associated with a magnetic catalyst CuFe2O4: The reaction and transformation. Chemical Engineering Journal, 2015, 262, 552-562.	6.6	102

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37	Preparation and characterization of a plasma treated NiMgSBA-15 catalyst for methane reforming with CO2 to produce syngas. Catalysis Science and Technology, 2013, 3, 2278.	2.1	94
38	Bimetallic Auâ€“Cu supported on ceria for PROX reaction: Effects of Cu/Au atomic ratios and thermal pretreatments. Applied Catalysis B: Environmental, 2013, 142-143, 25-37.	10.8	91
39	Self-Propagated Flaming Synthesis of Highly Active Layered CuO-Î´-MnO₂ Hybrid Composites for Catalytic Total Oxidation of Toluene Pollutant. ACS Applied Materials & Interfaces, 2017, 9, 21798-21808.	4.0	91
40	Plasma-assisted preparation of Feâ€“Cu bimetal catalyst for higher alcohols synthesis from carbon monoxide hydrogenation. Fuel, 2010, 89, 3127-3131.	3.4	89
41	The nature of cobalt species in carbon nanotubes and their catalytic performance in Fischerâ€“Tropsch reaction. Journal of Materials Chemistry, 2009, 19, 9241.	6.7	88
42	Calculation of micro-annulus size in casing-cement sheath-formation system under continuous internal casing pressure change. Petroleum Exploration and Development, 2015, 42, 414-421.	3.0	87
43	Characteristics of N-doped TiO2 nanotube arrays by N2-plasma for visible light-driven photocatalysis. Journal of Alloys and Compounds, 2011, 509, 9970-9976.	2.8	83
44	Modified PLGAâ€“PEGâ€“PLGA thermosensitive hydrogels with suitable thermosensitivity and properties for use in a drug delivery system. Journal of Materials Chemistry B, 2017, 5, 1551-1565.	2.9	83
45	Unique 3D flower-on-sheet nanostructure of NiCo LDHs: Controllable microwave-assisted synthesis and its application for advanced supercapacitors. Journal of Alloys and Compounds, 2019, 788, 1029-1036.	2.8	83
46	A Plasma-Activated Ni/Î±-Al2O3 Catalyst for the Conversion of CH4 to Syngas. Plasma Chemistry and Plasma Processing, 2000, 20, 137-144.	1.1	81
47	Preparation of stable and highly active Ni/CeO2 catalysts by glow discharge plasma technique for glycerol steam reforming. Applied Catalysis B: Environmental, 2019, 249, 257-265.	10.8	80
48	A Support Vector Approach to Censored Targets. , 2007, , .		74
49	Ultrathin nanosheets of cobalt-nickel hydroxides hetero-structure via electrodeposition and precursor adjustment with excellent performance for supercapacitor. Journal of Energy Chemistry, 2018, 27, 591-599.	7.1	74
50	Low-temperature catalytic combustion of methane over MnO x â€“CeO2 mixed oxide catalysts: Effect of preparation method. Catalysis Letters, 2007, 113, 59-64.	1.4	73
51	Experimental and Modeling Study of Methane Adsorption on Activated Carbon Derived from Anthracite. Journal of Chemical & Engineering Data, 2011, 56, 4919-4926.	1.0	72
52	Highly effective self-propagating synthesis of CeO 2 -doped MnO 2 catalysts for toluene catalytic combustion. Catalysis Today, 2017, 297, 167-172.	2.2	72
53	Diphenamid degradation via sulfite activation under visible LED using Fe (III) impregnated N-doped TiO2 photocatalyst. Applied Catalysis B: Environmental, 2019, 244, 823-835.	10.8	71
54	Controlling Co-support interaction in Co/MWCNTs catalysts and catalytic performance for hydrogen production via NH3 decomposition. Applied Catalysis A: General, 2013, 464-465, 156-164.	2.2	69

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55	Efficient Degradation of an Antibiotic Norfloxacin in Aqueous Solution via a Simulated Solar-Light-Mediated Bi₂WO₆ Process. Industrial & Engineering Chemistry Research, 2012, 51, 4887-4893.	1.8	67
56	Investigation of oxygen-containing group promotion effect on CO2â€“coal interaction by density functional theory. Applied Surface Science, 2014, 299, 162-169.	3.1	67
57	Self-assembled Ni/NiO/RGO heterostructures for high-performance supercapacitors. RSC Advances, 2015, 5, 77958-77964.	1.7	67
58	DFT simulation on H2 adsorption over Ni-decorated defective h-BN nanosheets. Applied Surface Science, 2018, 439, 246-253.	3.1	67
59	Comparison of phenacetin degradation in aqueous solutions by catalytic ozonation with CuFe 2 O 4 and its precursor: Surface properties, intermediates and reaction mechanisms. Chemical Engineering Journal, 2016, 284, 28-36.	6.6	66
60	Anti-sintering mesoporous Niâ€“Pd bimetallic catalysts for hydrogen production via dry reforming of methane. International Journal of Hydrogen Energy, 2020, 45, 16133-16143.	3.8	66
61	Catalytic performances of Ni/mesoporous SiO 2 catalysts for dry reforming of methane to hydrogen. Journal of Energy Chemistry, 2016, 25, 709-719.	7.1	65
62	Research on Ni/Î³-Al2O3 catalyst for CO2 reforming of CH4 prepared by atmospheric pressure glow discharge plasma jet. Catalysis Today, 2009, 148, 268-274.	2.2	63
63	Facile hydrothermal synthesis and characteristics of B-doped TiO2 hybrid hollow microspheres with higher photo-catalytic activity. Journal of Alloys and Compounds, 2011, 509, 3771-3776.	2.8	63
64	CO2 adsorption-assisted CH4 desorption on carbon models of coal surface: A DFT study. Applied Surface Science, 2016, 375, 196-206.	3.1	63
65	Magnetically recyclable hollow Coâ€“B nanospindles as catalysts for hydrogen generation from ammonia borane. Journal of Materials Science, 2010, 45, 2862-2867.	1.7	62
66	Three Novel Homochiral Helical Metalâ^'Organic Frameworks Based on Amino Acid Ligand: Syntheses, Crystal Structures, and Properties. Crystal Growth and Design, 2011, 11, 93-99.	1.4	62
67	Oxidative Methane Reforming with an Intelligent Catalyst: Sinteringâ€Tolerant Supported Nickel Nanoparticles. ChemSusChem, 2013, 6, 2061-2065.	3.6	62
68	Adsorption of CH4 on nitrogen- and boron-containing carbon models of coal predicted by density-functional theory. Applied Surface Science, 2013, 285, 190-197.	3.1	62
69	CO2 reforming of methane over Mn promoted Ni/Al2O3 catalyst treated by N2 glow discharge plasma. Catalysis Today, 2015, 256, 124-129.	2.2	61
70	In situ controllable assembly of layered-double-hydroxide-based nickel nanocatalysts for carbon dioxide reforming of methane. Catalysis Science and Technology, 2015, 5, 1588-1597.	2.1	60
71	Electrodeposition preparation of Ag nanoparticles loaded TiO2 nanotube arrays with enhanced photocatalytic performance. Applied Surface Science, 2014, 288, 513-517.	3.1	59
72	New palladium catalysts prepared by glow discharge plasma for the selective hydrogenation of acetylene. Catalysis Today, 2004, 89, 201-204.	2.2	58

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73	Heterogeneous catalytic ozonation of phenacetin in water using magnetic spinel ferrite as catalyst: Comparison of surface property and efficiency. Journal of Molecular Catalysis A, 2015, 396, 164-173.	4.8	58
74	Effect of promotion with ruthenium on the structure and catalytic performance of mesoporous silica (smaller and larger pore) supported cobalt Fischerâ€“Tropsch catalysts. Catalysis Today, 2009, 140, 135-141.	2.2	57
75	Characteristics of doped TiO2 photocatalysts for the degradation of methylene blue waste water under visible light. Journal of Alloys and Compounds, 2010, 501, 54-59.	2.8	57
76	Aqueous phase hydrogenation of acetic acid to ethanol over Ir-MoOx/SiO2 catalyst. Catalysis Communications, 2014, 43, 38-41.	1.6	57
77	Plasma-assisted preparation of Ni/SiO2 catalyst using atmospheric high frequency cold plasma jet. Catalysis Communications, 2008, 9, 1087-1091.	1.6	56
78	Computational screening of transition-metal single atom doped C₉N₄ monolayers as efficient electrocatalysts for water splitting. Nanoscale, 2019, 11, 18169-18175.	2.8	56
79	Synthesis and characterization of mesoporous V-MCM-41 molecular sieves with good hydrothermal and thermal stability. Journal of Molecular Catalysis A, 2006, 256, 48-56.	4.8	55
80	Adsorption of methane on carbon models of coal surface studied by the density functional theory including dispersion correction (DFT-D3). Computational and Theoretical Chemistry, 2012, 992, 37-47.	1.1	55
81	Design of efficient Fischer Tropsch cobalt catalysts via plasma enhancement: Reducibility and performance (Review). Catalysis Today, 2015, 256, 41-48.	2.2	55
82	Preparation of monodispersed cobaltâ€“boron spherical nanoparticles and their behavior during the catalytic decomposition of hydrous hydrazine. Materials Research Bulletin, 2010, 45, 442-447.	2.7	54
83	Mesoporous Ni/Ce_{1â^'x}Ni_xO_{2â^'y} heterostructure as an efficient catalyst for converting greenhouse gas to H₂ and syngas. Catalysis Science and Technology, 2016, 6, 851-862.	2.1	52
84	Phosgene-Free Synthesis of Phenyl Isocyanate by Catalytic Decomposition of Methyl N-Phenyl Carbamate over Bi2O3 Catalyst. Catalysis Letters, 2008, 123, 307-316.	1.4	51
85	Effect of glow discharge plasma treatment on the performance of Ni/SiO2 catalyst in CO2 methanation. Journal of Fuel Chemistry and Technology, 2013, 41, 96-101.	0.9	51
86	Methane adsorption characteristics on coal surface above critical temperature through Dubininâ€“Astakhov model and Langmuir model. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 444, 104-113.	2.3	51
87	Facile synthesis of homogeneous hollow microsphere Cuâ€“Mn based catalysts for catalytic oxidation of toluene. Chemosphere, 2020, 247, 125812.	4.2	50
88	Recent advances in single-atom electrocatalysts supported on two-dimensional materials for the oxygen evolution reaction. Journal of Materials Chemistry A, 2021, 9, 9979-9999.	5.2	50
89	Promotion Effects of Platinum and Ruthenium on Carbon Nanotube Supported Cobalt Catalysts for Fischerâ€“Tropsch Synthesis. Catalysis Letters, 2011, 141, 438-444.	1.4	49
90	Improvement of catalytic stability for CO 2 reforming of methane by copper promoted Ni-based catalyst derived from layered-double hydroxides. Journal of Energy Chemistry, 2016, 25, 1078-1085.	7.1	48

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91	CO₂Methanation over Supported Ru/Al₂O₃Catalysts: Mechanistic Studies byIn situInfrared Spectroscopy. ChemistrySelect, 2016, 1, 3197-3203.	0.7	48
92	Facile one-pot synthesized ordered mesoporous Mg-SBA-15 supported PtSn catalysts for propane dehydrogenation. Applied Catalysis A: General, 2017, 533, 17-27.	2.2	48
93	Catalytic properties of Cu-Co catalysts supported on HNO3-pretreated CNTs for higher-alcohol synthesis. Journal of Natural Gas Chemistry, 2011, 20, 48-52.	1.8	47
94	Preparation of novel titania supported palladium catalysts for selective hydrogenation of acetylene to ethylene. Catalysis Communications, 2007, 8, 593-597.	1.6	46
95	Effects of preparation methods on CoAlOx/CeO2 catalysts for methane catalytic combustion. Fuel, 2018, 225, 588-595.	3.4	46
96	Implication of iron nitride species to enhance the catalytic activity and stability of carbon nanotubes supported Fe catalysts for carbon-free hydrogen production via low-temperature ammonia decomposition. Catalysis Science and Technology, 2018, 8, 907-915.	2.1	46
97	Hydrogen Production by Ethanol Steam Reforming on NiCuMgAl Catalysts Derived from Hydrotalcite-Like Precursors. Catalysis Letters, 2011, 141, 1228-1236.	1.4	45
98	SAFE: A Statistical Approach to F0 Estimation Under Clean and Noisy Conditions. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 933-944.	3.8	45
99	Regulation of Niâ€“CNT Interaction on Mn-Promoted Nickel Nanocatalysts Supported on Oxygenated CNTs for CO₂ Selective Hydrogenation. ACS Applied Materials & Interfaces, 2018, 10, 41224-41236.	4.0	45
100	Effects of impregnation sequence on the microstructure and performances of Cu-Co based catalysts for the synthesis of higher alcohols. Journal of Natural Gas Chemistry, 2008, 17, 369-373.	1.8	44
101	Flexible metal-templated fabrication of mesoporous onion-like carbon and Fe₂O₃@N-doped carbon foam for electrochemical energy storage. Journal of Materials Chemistry A, 2018, 6, 13012-13020.	5.2	44
102	Microwave-Assisted Synthesis of NiCo2O4 Double-Shelled Hollow Spheres for High-Performance Sodium Ion Batteries. Nano-Micro Letters, 2018, 10, 13.	14.4	44
103	Preparation of mesoporous Coâ€“B catalyst via self-assembled triblock copolymer templates. Materials Letters, 2007, 61, 4679-4682.	1.3	43
104	Experimental and theoretical investigation on the interaction between palladium nanoparticles and functionalized carbon nanotubes for Heck synthesis. Catalysis Today, 2013, 212, 206-214.	2.2	42
105	Enhanced catalytic performances of in situ-assembled LaMnO3/Î´-MnO2 hetero-structures for toluene combustion. Catalysis Today, 2019, 327, 19-27.	2.2	42
106	Catalytic performance for methane combustion of supported Mn-Ce mixed oxides. Journal of Rare Earths, 2008, 26, 836-840.	2.5	41
107	Low-temperature CO oxidation over CuO-CeO2/SiO2 catalysts: Effect of CeO2 content and carrier porosity. Journal of Natural Gas Chemistry, 2010, 19, 355-361.	1.8	41
108	Mesoporous Coâ€“Bâ€“Nâ€“H nanowires: superior catalysts for decomposition of hydrous hydrazine to generate hydrogen. Catalysis Science and Technology, 2014, 4, 3168.	2.1	40

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109	Selective catalytic reduction of NO by C3H8 over CoOx/Al2O3: An investigation of structureâ€“activity relationships. Catalysis Today, 2008, 131, 305-313.	2.2	39
110	Effect of iron on durability of nickel-based catalysts in auto-thermal reforming of ethanol for hydrogen production. International Journal of Hydrogen Energy, 2008, 33, 7448-7456.	3.8	39
111	Synthesis, characterization and capacitive performance of hydrous manganese dioxide nanostructures. Nanotechnology, 2011, 22, 125703.	1.3	39
112	Fractal dimension of coal particles and their CH4 adsorption. International Journal of Mining Science and Technology, 2012, 22, 855-858.	4.6	39
113	Preparation and characterization of amorphous Co-B catalysts with mesoporous structure. Journal of Molecular Catalysis A, 2007, 269, 149-157.	4.8	38
114	Oneâ€pot Synthesis of Ordered Mesoporous NiCeAl Oxide Catalysts and a Study of Their Performance in Methane Dry Reforming. ChemCatChem, 2014, 6, 1470-1480.	1.8	38
115	DFT studies of Ni cluster on graphene surface: effect of CO₂ activation. RSC Advances, 2016, 6, 96545-96553.	1.7	38
116	Ordered mesoporous Sn-SBA-15 as support for Pt catalyst with enhanced performance in propane dehydrogenation. Chinese Journal of Catalysis, 2017, 38, 726-735.	6.9	38
117	Cold-plasma technique enabled supported Pt single atoms with tunable coordination for hydrogen evolution reaction. Applied Catalysis B: Environmental, 2021, 285, 119861.	10.8	38
118	Preparation and characterization of Co-B flowers with mesoporous structure. Materials Research Bulletin, 2008, 43, 1327-1336.	2.7	37
119	Effects of Ce/Zr ratio on the structure and performances of Co-Ce1âˆ’xZrxO2 catalysts for carbon dioxide reforming of methane. Journal of Natural Gas Chemistry, 2010, 19, 117-122.	1.8	37
120	Nano-size MZnAl (M=Cu, Co, Ni) metal oxides obtained by combining hydrothermal synthesis with urea homogeneous precipitation procedures. Applied Clay Science, 2010, 48, 203-207.	2.6	37
121	Functionalization of multi-walled carbon nanotubes using water-assisted chemical vapor deposition. Journal of Solid State Chemistry, 2013, 197, 517-522.	1.4	37
122	Facile synthesis of high-surface-area activated carbon from coal for supercapacitors and high CO₂ sorption. RSC Advances, 2016, 6, 42019-42028.	1.7	37
123	Mechanism of enhanced diclofenac mineralization by catalytic ozonation over iron silicate-loaded pumice. Separation and Purification Technology, 2017, 173, 55-62.	3.9	37
124	Prediction of carbofuran degradation based on the hydroxyl radicalâ€™s generation using the FeIII impregnated N doped-TiO2/H2O2/visible LED photo-Fenton-like process. Chemical Engineering Journal, 2020, 382, 122930.	6.6	37
125	Effects of zirconia promotion on the structure and performance of smaller and larger pore silica-supported cobalt catalysts for Fischerâ€“Tropsch synthesis. Applied Catalysis A: General, 2010, 382, 28-35.	2.2	36
126	Promising SiC support for Pd catalyst in selective hydrogenation of acetylene to ethylene. Applied Surface Science, 2018, 442, 736-741.	3.1	36

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127	Biosourced Foamâ€Like Activated Carbon Materials as Highâ€Performance Supercapacitors. Advanced Sustainable Systems, 2018, 2, 1700123.	2.7	36
128	Probing the enhanced catalytic activity of carbon nanotube supported Ni-LaO_x hybrids for the CO₂ reduction reaction. Nanoscale, 2018, 10, 14207-14219.	2.8	36
129	Effect of crystallinity on the catalytic performance of amorphous Coâ€“B particles prepared from cobalt nitrate and potassium borohydride in the cinnamaldehyde hydrogenation. Journal of Molecular Catalysis A, 2007, 265, 195-204.	4.8	35
130	Effects of carrier and Mn loading on supported manganese oxide catalysts for catalytic combustion of methane. Journal of Natural Gas Chemistry, 2008, 17, 159-164.	1.8	35
131	Cerium Promoted Nano Nickel Catalysts Ni-Ce/CNTs and Ni-Ce/Al₂O₃for CO₂Methanation. Integrated Ferroelectrics, 2014, 151, 116-125.	0.3	35
132	Plasma-Treated Bimetallic Niâ€“Pt Catalysts Derived from Hydrotalcites for the Carbon Dioxide Reforming of Methane. Catalysis Letters, 2014, 144, 293-300.	1.4	35
133	<scp>PAA</scp>/alumina composites prepared with different molecular weight polymers and utilized as support for nickelâ€based catalyst. Advances in Polymer Technology, 2018, 37, 2325-2335.	0.8	35
134	A Remarkable Member of the Polyoxometalates: The Eight-Nickel-Capped Î±-Keggin Polyoxoazonickelate. Inorganic Chemistry, 2009, 48, 7528-7530.	1.9	34
135	Synthesis of carbon nanotubes using scrap tyre rubber as carbon source. Chinese Chemical Letters, 2012, 23, 363-366.	4.8	34
136	Quantum chemical studies on adsorption of CO2 on nitrogen-containing molecular segment models of coal. Surface Science, 2013, 616, 85-92.	0.8	34
137	Plasma-assisted highly dispersed Pt single atoms on Ru nanoclusters electrocatalyst for pH-universal hydrogen evolution. Chemical Engineering Journal, 2022, 448, 137611.	6.6	34
138	Promoting effect of Fe in preferential oxidation of carbon monoxide reaction (PROX) on Au/CeO2. Applied Catalysis A: General, 2012, 449, 131-138.	2.2	33
139	A facile approach for the preparation of biomorphic CuOâ€“ZrO2 catalyst for catalytic combustion of methane. Applied Catalysis A: General, 2012, 423-424, 121-129.	2.2	33
140	Effect of a second metal (Co, Cu, Mn or Zr) on nickel catalysts derived from hydrotalcites for the carbon dioxide reforming of methane. RSC Advances, 2016, 6, 70537-70546.	1.7	33
141	Various Metals (Ce, In, La, and Fe) Promoted Pt/Sn-SBA-15 as Highly Stable Catalysts for Propane Dehydrogenation. Industrial & Engineering Chemistry Research, 2019, 58, 10804-10818.	1.8	33
142	Cerium Oxide Promoted Ni/MgO Catalyst for the Synthesis of Multi-walled Carbon Nanotubes. Chinese Journal of Catalysis, 2011, 32, 1323-1328.	6.9	32
143	Synthesis and performance of vanadium-based catalysts for the selective oxidation of light alkanes. Catalysis Today, 2017, 298, 145-157.	2.2	32
144	Carbon Nanotubes Supported Nickel as the Highly Efficient Catalyst for Hydrogen Production through Glycerol Steam Reforming. ACS Sustainable Chemistry and Engineering, 2018, 6, 14403-14413.	3.2	31

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145	CO oxidation over Co3O4/SiO2 catalysts: Effects of porous structure of silica and catalyst calcination temperature. Journal of Natural Gas Chemistry, 2010, 19, 583-588.	1.8	30
146	Experimental investigations on microstructure and adsorption property of heat-treated coal chars. Journal of Analytical and Applied Pyrolysis, 2013, 104, 559-566.	2.6	30
147	Effect of nitrogen-containing groups on methane adsorption behaviors of carbon spheres. Journal of Analytical and Applied Pyrolysis, 2014, 107, 204-210.	2.6	30
148	Theoretical insight into the enhanced CH 4 desorption via H 2 O adsorption on different rank coal surfaces. Journal of Energy Chemistry, 2016, 25, 677-682.	7.1	30
149	Phase control of 2D binary hydroxides nanosheets via controlling-release strategy for enhanced oxygen evolution reaction and supercapacitor performances. Journal of Energy Chemistry, 2019, 38, 26-33.	7.1	30
150	Computational screening of transition metal-doped phthalocyanine monolayers for oxygen evolution and reduction. Nanoscale Advances, 2020, 2, 710-716.	2.2	30
151	Promoting effect of AuCu alloying on Au-Cu/CeO2-catalyzed CO oxidation: A combined kinetic and in situ DRIFTS study. Journal of Catalysis, 2020, 382, 329-338.	3.1	30
152	Conversion of syngas to C1-C6 alcohol mixtures on promoted CuLa2Zr2O7 catalysts. Applied Catalysis A: General, 1995, 121, 95-111.	2.2	29
153	Remarkable Promotion of Benzene Formation in Methane Aromatization with Ethane Addition. Topics in Catalysis, 2003, 22, 131-134.	1.3	29
154	Synthesis, crystal structures, and surface photovoltage properties of four new metal diphosphonates based on the mixed ligands. CrystEngComm, 2013, 15, 1445.	1.3	29
155	Effects of ultrasonic impregnation combined with calcination in N2 atmosphere on the property of Co3O4/CeO2 composites for catalytic methane combustion. Journal of Energy Chemistry, 2016, 25, 387-392.	7.1	29
156	Cobaltâ€“boron amorphous alloy prepared in water/cetyl-trimethyl-ammonium bromide/n-hexanol microemulsion as anode for alkaline secondary batteries. Electrochimica Acta, 2010, 55, 2299-2305.	2.6	28
157	Preparation of porous nitrogen-doped titanium dioxide microspheres and a study of their photocatalytic, antibacterial and electrochemical activities. Materials Research Bulletin, 2012, 47, 4514-4521.	2.7	28
158	Facile fabrication of well-dispersed silver nanoparticles loading on TiO2 nanotube arrays by electrodeposition. Materials Letters, 2012, 80, 66-68.	1.3	28
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