

Wei Chu

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376
papers

13,686
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54
h-index

99
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410
ext. papers

15,812
ext. citations

6.2
avg, IF

6.93
L-index

#	Paper	IF	Citations
376	Advances in the development of novel cobalt Fischer-Tropsch catalysts for synthesis of long-chain hydrocarbons and clean fuels. <i>Chemical Reviews</i> , 2007 , 107, 1692-744	68.1	1763
375	A contextual-bandit approach to personalized news article recommendation 2010 ,		653
374	Facile Route for Synthesizing Ordered Mesoporous Ni _{1-x} Al _x Oxide Materials and Their Catalytic Performance for Methane Dry Reforming to Hydrogen and Syngas. <i>ACS Catalysis</i> , 2013 , 3, 1638-1651	13.1	283
373	Cobalt species in promoted cobalt alumina-supported Fischer-Tropsch catalysts. <i>Journal of Catalysis</i> , 2007 , 252, 215-230	7.3	249
372	Synthesis, characterization and catalytic performances of Ce-SBA-15 supported nickel catalysts for methane dry reforming to hydrogen and syngas. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 19-30	6.7	220
371	Support vector ordinal regression. <i>Neural Computation</i> , 2007 , 19, 792-815	2.9	206
370	Methanation of carbon dioxide on Ni/ZrO ₂ -Al ₂ O ₃ catalysts: Effects of ZrO ₂ promoter and preparation method of novel ZrO ₂ -Al ₂ O ₃ carrier. <i>Journal of Natural Gas Chemistry</i> , 2011 , 20, 318-324		172
369	A comparison study on methane dry reforming with carbon dioxide over LaNiO ₃ perovskite catalysts supported on mesoporous SBA-15, MCM-41 and silica carrier. <i>Catalysis Today</i> , 2013 , 212, 98-107	5.3	155
368	Degradation of benzotriazole by a novel Fenton-like reaction with mesoporous Cu/MnO ₂ : Combination of adsorption and catalysis oxidation. <i>Applied Catalysis B: Environmental</i> , 2016 , 199, 447-457	21.8	139
367	Unbiased offline evaluation of contextual-bandit-based news article recommendation algorithms 2011 ,		137
366	Glow-discharge plasma-assisted design of cobalt catalysts for Fischer-Tropsch synthesis. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 5052-5	16.4	136
365	Carbon dioxide reforming of methane for syngas production over La-promoted NiMgAl catalysts derived from hydrotalcites. <i>Chemical Engineering Journal</i> , 2012 , 209, 623-632	14.7	134
364	Enhanced photocatalytic degradation of ciprofloxacin over Bi ₂ O ₃ /(BiO) ₂ CO ₃ heterojunctions: Efficiency, kinetics, pathways, mechanisms and toxicity evaluation. <i>Chemical Engineering Journal</i> , 2018 , 334, 453-461	14.7	133
363	New approaches to support vector ordinal regression 2005 ,		123
362	A critical study on the adsorption of heterocyclic sulfur and nitrogen compounds by activated carbon: Equilibrium, kinetics and thermodynamics. <i>Chemical Engineering Journal</i> , 2010 , 164, 29-36	14.7	116
361	Effect of the surface oxygen groups on methane adsorption on coals. <i>Applied Surface Science</i> , 2013 , 264, 433-442	6.7	113
360	Cross-Coupled Macro-Mesoporous Carbon Network toward Record High Energy-Power Density Supercapacitor at 4 V. <i>Advanced Functional Materials</i> , 2018 , 28, 1806153	15.6	109

359	Synthesis, characterization and catalytic performance of MgO-coated Ni/SBA-15 catalysts for methane dry reforming to syngas and hydrogen. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 9718-9731	6.7	104
358	Preference learning with Gaussian processes 2005 ,		104
357	Crystal-plane effect of nanoscale CeO ₂ on the catalytic performance of Ni/CeO ₂ catalysts for methane dry reforming. <i>Catalysis Science and Technology</i> , 2016 , 6, 3594-3605	5.5	103
356	Manganese promoting effects on the Co _x Fe _{1-x} O _x nano catalysts for methane dry reforming with carbon dioxide to hydrogen and carbon monoxide. <i>Chemical Engineering Journal</i> , 2011 , 170, 457-463	14.7	100
355	One-step solvothermal synthesis of Fe ₃ O ₄ @C core-shell nanoparticles with tunable sizes. <i>Nanotechnology</i> , 2012 , 23, 165601	3.4	99
354	High-stable β -phase NiCo double hydroxide microspheres via microwave synthesis for supercapacitor electrode materials. <i>Chemical Engineering Journal</i> , 2017 , 316, 277-287	14.7	92
353	Cobalt species and cobalt-support interaction in glow discharge plasma-assisted Fischer-Tropsch catalysts. <i>Journal of Catalysis</i> , 2010 , 273, 9-17	7.3	92
352	Mesoporous nickel catalyst supported on multi-walled carbon nanotubes for carbon dioxide methanation. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 967-975	6.7	86
351	Sulfate radical-based photo-Fenton reaction derived by CuBi ₂ O ₄ and its composites with Bi ₂ O ₃ under visible light irradiation: Catalyst fabrication, performance and reaction mechanism. <i>Applied Catalysis B: Environmental</i> , 2018 , 235, 264-273	21.8	85
350	Bayesian support vector regression using a unified loss function. <i>IEEE Transactions on Neural Networks</i> , 2004 , 15, 29-44		83
349	Preparation and characterization of a plasma treated NiMgSBA-15 catalyst for methane reforming with CO ₂ to produce syngas. <i>Catalysis Science and Technology</i> , 2013 , 3, 2278	5.5	82
348	Fractal characterization and methane adsorption features of coal particles taken from shallow and deep coalmine layers. <i>Fuel</i> , 2015 , 155, 7-13	7.1	81
347	Bimetallic Au-Cu supported on ceria for PROX reaction: Effects of Cu/Au atomic ratios and thermal pretreatments. <i>Applied Catalysis B: Environmental</i> , 2013 , 142-143, 25-37	21.8	81
346	The nature of cobalt species in carbon nanotubes and their catalytic performance in Fischer-Tropsch reaction. <i>Journal of Materials Chemistry</i> , 2009 , 19, 9241		81
345	Biomarker discovery in microarray gene expression data with Gaussian processes. <i>Bioinformatics</i> , 2005 , 21, 3385-93	7.2	81
344	Transition metal-embedded two-dimensional C ₃ N as a highly active electrocatalyst for oxygen evolution and reduction reactions. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12050-12059	13	78
343	Transition-metal single atoms in nitrogen-doped graphenes as efficient active centers for water splitting: a theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 3024-3032	3.6	76
342	Ozonation of phenacetin in associated with a magnetic catalyst CuFe ₂ O ₄ : The reaction and transformation. <i>Chemical Engineering Journal</i> , 2015 , 262, 552-562	14.7	76

341	Characteristics of N-doped TiO ₂ nanotube arrays by N ₂ -plasma for visible light-driven photocatalysis. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 9970-9976	5.7	74
340	Plasma-assisted preparation of Fe/Cu bimetal catalyst for higher alcohols synthesis from carbon monoxide hydrogenation. <i>Fuel</i> , 2010 , 89, 3127-3131	7.1	74
339	A Plasma-Activated Ni/Al ₂ O ₃ Catalyst for the Conversion of CH ₄ to Syngas. <i>Plasma Chemistry and Plasma Processing</i> , 2000 , 20, 137-144	3.6	71
338	Enhanced hydrogen storage on Li-doped defective graphene with B substitution: A DFT study. <i>Applied Surface Science</i> , 2017 , 410, 166-176	6.7	69
337	Low-temperature catalytic combustion of methane over MnO _x /CeO ₂ mixed oxide catalysts: Effect of preparation method. <i>Catalysis Letters</i> , 2007 , 113, 59-64	2.8	68
336	Environmental Remediation Applications of Carbon Nanotubes and Graphene Oxide: Adsorption and Catalysis. <i>Nanomaterials</i> , 2019 , 9,	5.4	64
335	Self-Propagated Flaming Synthesis of Highly Active Layered CuO-MnO Hybrid Composites for Catalytic Total Oxidation of Toluene Pollutant. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21798-21808	8.5	61
334	Experimental and Modeling Study of Methane Adsorption on Activated Carbon Derived from Anthracite. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 4919-4926	2.8	60
333	Efficient Degradation of an Antibiotic Norfloxacin in Aqueous Solution via a Simulated Solar-Light-Mediated Bi ₂ WO ₆ Process. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 4887-4893	2.9	59
332	Research on Ni/Al ₂ O ₃ catalyst for CO ₂ reforming of CH ₄ prepared by atmospheric pressure glow discharge plasma jet. <i>Catalysis Today</i> , 2009 , 148, 268-274	5.3	59
331	Three Novel Homochiral Helical Metal-Organic Frameworks Based on Amino Acid Ligand: Syntheses, Crystal Structures, and Properties. <i>Crystal Growth and Design</i> , 2011 , 11, 93-99	3.5	56
330	Characteristics of doped TiO ₂ photocatalysts for the degradation of methylene blue waste water under visible light. <i>Journal of Alloys and Compounds</i> , 2010 , 501, 54-59	5.7	56
329	Magnetically recyclable hollow CoB nanospindles as catalysts for hydrogen generation from ammonia borane. <i>Journal of Materials Science</i> , 2010 , 45, 2862-2867	4.3	56
328	UiO-66-NH ₂ /RGO Composite: Synthesis, Characterization and CO ₂ Adsorption Performance. <i>Materials</i> , 2018 , 11,	3.5	55
327	Adsorption of CH ₄ on nitrogen- and boron-containing carbon models of coal predicted by density-functional theory. <i>Applied Surface Science</i> , 2013 , 285, 190-197	6.7	55
326	Self-assembled Ni/NiO/RGO heterostructures for high-performance supercapacitors. <i>RSC Advances</i> , 2015 , 5, 77958-77964	3.7	54
325	Oxidative methane reforming with an intelligent catalyst: sintering-tolerant supported nickel nanoparticles. <i>ChemSusChem</i> , 2013 , 6, 2061-5	8.3	54
324	Preparation of stable and highly active Ni/CeO ₂ catalysts by glow discharge plasma technique for glycerol steam reforming. <i>Applied Catalysis B: Environmental</i> , 2019 , 249, 257-265	21.8	53

323	CO ₂ reforming of methane over Mn promoted Ni/Al ₂ O ₃ catalyst treated by N ₂ glow discharge plasma. <i>Catalysis Today</i> , 2015 , 256, 124-129	5:3	53
322	Investigation of oxygen-containing group promotion effect on CO ₂ /coal interaction by density functional theory. <i>Applied Surface Science</i> , 2014 , 299, 162-169	6:7	53
321	Facile hydrothermal synthesis and characteristics of B-doped TiO ₂ hybrid hollow microspheres with higher photo-catalytic activity. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 3771-3776	5:7	53
320	Plasma-assisted preparation of Ni/SiO ₂ catalyst using atmospheric high frequency cold plasma jet. <i>Catalysis Communications</i> , 2008 , 9, 1087-1091	3:2	53
319	New palladium catalysts prepared by glow discharge plasma for the selective hydrogenation of acetylene. <i>Catalysis Today</i> , 2004 , 89, 201-204	5:3	53
318	Calculation of micro-annulus size in casing-cement sheath-formation system under continuous internal casing pressure change. <i>Petroleum Exploration and Development</i> , 2015 , 42, 414-421	4:5	52
317	Electrodeposition preparation of Ag nanoparticles loaded TiO ₂ nanotube arrays with enhanced photocatalytic performance. <i>Applied Surface Science</i> , 2014 , 288, 513-517	6:7	52
316	A Support Vector Approach to Censored Targets 2007 ,		52
315	Controlling Co-support interaction in Co/MWCNTs catalysts and catalytic performance for hydrogen production via NH ₃ decomposition. <i>Applied Catalysis A: General</i> , 2013 , 464-465, 156-164	5:1	51
314	Synthesis and characterization of mesoporous V-MCM-41 molecular sieves with good hydrothermal and thermal stability. <i>Journal of Molecular Catalysis A</i> , 2006 , 256, 48-56		50
313	Comparison of phenacetin degradation in aqueous solutions by catalytic ozonation with CuFe ₂ O ₄ and its precursor: Surface properties, intermediates and reaction mechanisms. <i>Chemical Engineering Journal</i> , 2016 , 284, 28-36	14:7	49
312	Effect of promotion with ruthenium on the structure and catalytic performance of mesoporous silica (smaller and larger pore) supported cobalt Fischer-Tropsch catalysts. <i>Catalysis Today</i> , 2009 , 140, 135-141	5:3	49
311	Modified PLGA-PEG-PLGA thermosensitive hydrogels with suitable thermosensitivity and properties for use in a drug delivery system. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 1551-1565	7:3	48
310	In situ controllable assembly of layered-double-hydroxide-based nickel nanocatalysts for carbon dioxide reforming of methane. <i>Catalysis Science and Technology</i> , 2015 , 5, 1588-1597	5:5	48
309	Ultrathin nanosheets of cobalt-nickel hydroxides hetero-structure via electrodeposition and precursor adjustment with excellent performance for supercapacitor. <i>Journal of Energy Chemistry</i> , 2018 , 27, 591-599	12	48
308	Unique 3D flower-on-sheet nanostructure of NiCo LDHs: Controllable microwave-assisted synthesis and its application for advanced supercapacitors. <i>Journal of Alloys and Compounds</i> , 2019 , 788, 1029-1036	5:7	47
307	Design of efficient Fischer Tropsch cobalt catalysts via plasma enhancement: Reducibility and performance (Review). <i>Catalysis Today</i> , 2015 , 256, 41-48	5:3	47
306	Catalytic performances of Ni/mesoporous SiO ₂ catalysts for dry reforming of methane to hydrogen. <i>Journal of Energy Chemistry</i> , 2016 , 25, 709-719	12	47

305	Aqueous phase hydrogenation of acetic acid to ethanol over Ir-MoO _x /SiO ₂ catalyst. <i>Catalysis Communications</i> , 2014 , 43, 38-41	3.2	47
304	Diphenamid degradation via sulfite activation under visible LED using Fe (III) impregnated N-doped TiO ₂ photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2019 , 244, 823-835	21.8	47
303	Highly effective self-propagating synthesis of CeO ₂ -doped MnO ₂ catalysts for toluene catalytic combustion. <i>Catalysis Today</i> , 2017 , 297, 167-172	5.3	46
302	DFT simulation on H ₂ adsorption over Ni-decorated defective h-BN nanosheets. <i>Applied Surface Science</i> , 2018 , 439, 246-253	6.7	46
301	CO ₂ adsorption-assisted CH ₄ desorption on carbon models of coal surface: A DFT study. <i>Applied Surface Science</i> , 2016 , 375, 196-206	6.7	46
300	Promotion Effects of Platinum and Ruthenium on Carbon Nanotube Supported Cobalt Catalysts for Fischer-Tropsch Synthesis. <i>Catalysis Letters</i> , 2011 , 141, 438-444	2.8	45
299	Heterogeneous catalytic ozonation of phenacetin in water using magnetic spinel ferrite as catalyst: Comparison of surface property and efficiency. <i>Journal of Molecular Catalysis A</i> , 2015 , 396, 164-173		44
298	Effect of glow discharge plasma treatment on the performance of Ni/SiO ₂ catalyst in CO ₂ methanation. <i>Journal of Fuel Chemistry and Technology</i> , 2013 , 41, 96-101	1.8	44
297	Preparation of novel titania supported palladium catalysts for selective hydrogenation of acetylene to ethylene. <i>Catalysis Communications</i> , 2007 , 8, 593-597	3.2	44
296	Adsorption of methane on carbon models of coal surface studied by the density functional theory including dispersion correction (DFT-D3). <i>Computational and Theoretical Chemistry</i> , 2012 , 992, 37-47	2	43
295	Preparation of monodispersed cobalt-boron spherical nanoparticles and their behavior during the catalytic decomposition of hydrous hydrazine. <i>Materials Research Bulletin</i> , 2010 , 45, 442-447	5.1	43
294	Phosgene-Free Synthesis of Phenyl Isocyanate by Catalytic Decomposition of Methyl N-Phenyl Carbamate over Bi ₂ O ₃ Catalyst. <i>Catalysis Letters</i> , 2008 , 123, 307-316	2.8	43
293	Facile one-pot synthesized ordered mesoporous Mg-SBA-15 supported PtSn catalysts for propane dehydrogenation. <i>Applied Catalysis A: General</i> , 2017 , 533, 17-27	5.1	42
292	Hydrogen Production by Ethanol Steam Reforming on NiCuMgAl Catalysts Derived from Hydrotalcite-Like Precursors. <i>Catalysis Letters</i> , 2011 , 141, 1228-1236	2.8	42
291	Mesoporous Ni/Ce _{1-x} Ni _x O ₂ heterostructure as an efficient catalyst for converting greenhouse gas to H ₂ and syngas. <i>Catalysis Science and Technology</i> , 2016 , 6, 851-862	5.5	41
290	Methane adsorption characteristics on coal surface above critical temperature through Dubinin-Astakhov model and Langmuir model. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 444, 104-113	5.1	40
289	Catalytic properties of Cu-Co catalysts supported on HNO ₃ -pretreated CNTs for higher-alcohol synthesis. <i>Journal of Natural Gas Chemistry</i> , 2011 , 20, 48-52		39
288	Low-temperature CO oxidation over CuO-CeO ₂ /SiO ₂ catalysts: Effect of CeO ₂ content and carrier porosity. <i>Journal of Natural Gas Chemistry</i> , 2010 , 19, 355-361		39

287	Effects of impregnation sequence on the microstructure and performances of Cu-Co based catalysts for the synthesis of higher alcohols. <i>Journal of Natural Gas Chemistry</i> , 2008 , 17, 369-373		39
286	Experimental and theoretical investigation on the interaction between palladium nanoparticles and functionalized carbon nanotubes for Heck synthesis. <i>Catalysis Today</i> , 2013 , 212, 206-214	5-3	38
285	Preparation of mesoporous CoB catalyst via self-assembled triblock copolymer templates. <i>Materials Letters</i> , 2007 , 61, 4679-4682	3-3	37
284	Catalytic performance for methane combustion of supported Mn-Ce mixed oxides. <i>Journal of Rare Earths</i> , 2008 , 26, 836-840	3-7	37
283	Synthesis, characterization and capacitive performance of hydrous manganese dioxide nanostructures. <i>Nanotechnology</i> , 2011 , 22, 125703	3-4	36
282	Selective catalytic reduction of NO by C ₃ H ₈ over CoO _x /Al ₂ O ₃ : An investigation of structure-activity relationships. <i>Catalysis Today</i> , 2008 , 131, 305-313	5-3	36
281	Computational screening of transition-metal single atom doped CN monolayers as efficient electrocatalysts for water splitting. <i>Nanoscale</i> , 2019 , 11, 18169-18175	7-7	35
280	Effects of Ce/Zr ratio on the structure and performances of Co-Ce _{1-x} Zr _x O ₂ catalysts for carbon dioxide reforming of methane. <i>Journal of Natural Gas Chemistry</i> , 2010 , 19, 117-122		35
279	Effects of zirconia promotion on the structure and performance of smaller and larger pore silica-supported cobalt catalysts for Fischer-Tropsch synthesis. <i>Applied Catalysis A: General</i> , 2010 , 382, 28-35	5-1	35
278	Effect of iron on durability of nickel-based catalysts in auto-thermal reforming of ethanol for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 7448-7456	6-7	35
277	Mesoporous Co ₃ N ₄ nanowires: superior catalysts for decomposition of hydrous hydrazine to generate hydrogen. <i>Catalysis Science and Technology</i> , 2014 , 4, 3168	5-5	34
276	Functionalization of multi-walled carbon nanotubes using water-assisted chemical vapor deposition. <i>Journal of Solid State Chemistry</i> , 2013 , 197, 517-522	3-3	34
275	Preparation and characterization of Co-B flowers with mesoporous structure. <i>Materials Research Bulletin</i> , 2008 , 43, 1327-1336	5-1	33
274	Preparation and characterization of amorphous Co-B catalysts with mesoporous structure. <i>Journal of Molecular Catalysis A</i> , 2007 , 269, 149-157		33
273	Improvement of catalytic stability for CO ₂ reforming of methane by copper promoted Ni-based catalyst derived from layered-double hydroxides. <i>Journal of Energy Chemistry</i> , 2016 , 25, 1078-1085	12	33
272	Flexible metal-templated fabrication of mesoporous onion-like carbon and Fe ₂ O ₃ @N-doped carbon foam for electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 13012-13020 ¹³		32
271	PAA/alumina composites prepared with different molecular weight polymers and utilized as support for nickel-based catalyst. <i>Advances in Polymer Technology</i> , 2018 , 37, 2325-2335	1-9	32
270	CO ₂ Methanation over Supported Ru/Al ₂ O ₃ Catalysts: Mechanistic Studies by In situ Infrared Spectroscopy. <i>ChemistrySelect</i> , 2016 , 1, 3197-3203	1-8	32

- 269 Mechanism of enhanced diclofenac mineralization by catalytic ozonation over iron silicate-loaded pumice. *Separation and Purification Technology*, **2017**, 173, 55-62 8.3 31
- 268 A remarkable member of the polyoxometalates: the eight-nickel-capped alpha-keggin polyoxoazonickelate. *Inorganic Chemistry*, **2009**, 48, 7528-30 5.1 31
- 267 Microwave-Assisted Synthesis of NiCoO Double-Shelled Hollow Spheres for High-Performance Sodium Ion Batteries. *Nano-Micro Letters*, **2018**, 10, 13 19.5 31
- 266 Effects of preparation methods on CoAlO_x/CeO₂ catalysts for methane catalytic combustion. *Fuel*, **2018**, 225, 588-595 7.1 30
- 265 Cerium Promoted Nano Nickel Catalysts Ni-Ce/CNTs and Ni-Ce/Al₂O₃ for CO₂ Methanation. *Integrated Ferroelectrics*, **2014**, 151, 116-125 0.8 30
- 264 Synthesis of carbon nanotubes using scrap tyre rubber as carbon source. *Chinese Chemical Letters*, **2012**, 23, 363-366 8.1 30
- 263 Cerium Oxide Promoted Ni/MgO Catalyst for the Synthesis of Multi-walled Carbon Nanotubes. *Chinese Journal of Catalysis*, **2011**, 32, 1323-1328 11.3 30
- 262 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 5.2 30
- 261 Ordered mesoporous Sn-SBA-15 as support for Pt catalyst with enhanced performance in propane dehydrogenation. *Chinese Journal of Catalysis*, **2017**, 38, 726-735 11.3 29
- 260 SAFE: A Statistical Approach to F0 Estimation Under Clean and Noisy Conditions. *IEEE Transactions on Audio Speech and Language Processing*, **2012**, 20, 933-944 29
- 259 Promoting effect of Fe in preferential oxidation of carbon monoxide reaction (PROX) on Au/CeO₂. *Applied Catalysis A: General*, **2012**, 449, 131-138 5.1 29
- 258 A facile approach for the preparation of biomorphic CuO/ZrO₂ catalyst for catalytic combustion of methane. *Applied Catalysis A: General*, **2012**, 423-424, 121-129 5.1 29
- 257 Plasma-Treated Bimetallic NiPt Catalysts Derived from Hydrotalcites for the Carbon Dioxide Reforming of Methane. *Catalysis Letters*, **2014**, 144, 293-300 2.8 28
- 256 Quantum chemical studies on adsorption of CO₂ on nitrogen-containing molecular segment models of coal. *Surface Science*, **2013**, 616, 85-92 1.8 28
- 255 Synthesis, crystal structures, and surface photovoltage properties of four new metal diphosphonates based on the mixed ligands. *CrystEngComm*, **2013**, 15, 1445 3.3 28
- 254 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 28
- 253 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 5.5 27
- 252 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 3.7 27

251	Facile fabrication of well-dispersed silver nanoparticles loading on TiO ₂ nanotube arrays by electrodeposition. <i>Materials Letters</i> , 2012 , 80, 66-68	3.3	27
250	CO oxidation over Co ₃ O ₄ /SiO ₂ catalysts: Effects of porous structure of silica and catalyst calcination temperature. <i>Journal of Natural Gas Chemistry</i> , 2010 , 19, 583-588		27
249	Effect of crystallinity on the catalytic performance of amorphous CoB particles prepared from cobalt nitrate and potassium borohydride in the cinnamaldehyde hydrogenation. <i>Journal of Molecular Catalysis A</i> , 2007 , 265, 195-204		27
248	Conversion of syngas to C1-C6 alcohol mixtures on promoted CuLa ₂ Zr ₂ O ₇ catalysts. <i>Applied Catalysis A: General</i> , 1995 , 121, 95-111	5.1	27
247	Anti-sintering mesoporous NiPd bimetallic catalysts for hydrogen production via dry reforming of methane. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 16133-16143	6.7	27
246	Biosourced Foam-Like Activated Carbon Materials as High-Performance Supercapacitors. <i>Advanced Sustainable Systems</i> , 2018 , 2, 1700123	5.9	26
245	Effect of nitrogen-containing groups on methane adsorption behaviors of carbon spheres. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014 , 107, 204-210	6	26
244	Preparation of porous nitrogen-doped titanium dioxide microspheres and a study of their photocatalytic, antibacterial and electrochemical activities. <i>Materials Research Bulletin</i> , 2012 , 47, 4514-4521	5.1	26
243	Iron-promoted nickel-based catalysts for hydrogen generation via auto-thermal reforming of ethanol. <i>Catalysis Communications</i> , 2009 , 10, 502-508	3.2	26
242	Facile synthesis of high-surface-area activated carbon from coal for supercapacitors and high CO ₂ sorption. <i>RSC Advances</i> , 2016 , 6, 42019-42028	3.7	26
241	Regulation of Ni-CNT Interaction on Mn-Promoted Nickel Nanocatalysts Supported on Oxygenated CNTs for CO Selective Hydrogenation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 41224-41236	9.5	26
240	Synthesis and performance of vanadium-based catalysts for the selective oxidation of light alkanes. <i>Catalysis Today</i> , 2017 , 298, 145-157	5.3	25
239	Insight into the role of metal/oxide interaction and Ni availabilities on NiAl mixed metal oxide catalysts for methane decomposition. <i>Applied Catalysis A: General</i> , 2018 , 555, 1-11	5.1	25
238	Silver sulfide nanoparticles sensitized titanium dioxide nanotube arrays synthesized by in situ sulfurization for photocatalytic hydrogen production. <i>Journal of Colloid and Interface Science</i> , 2014 , 413, 17-23	9.3	25
237	Experimental investigations on microstructure and adsorption property of heat-treated coal chars. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013 , 104, 559-566	6	25
236	Fractal dimension of coal particles and their CH ₄ adsorption. <i>International Journal of Mining Science and Technology</i> , 2012 , 22, 855-858	7.1	25
235	Synthesis, structures and surface photovoltage properties of four novel metal phosphonates with a 3D supramolecular structure. <i>CrystEngComm</i> , 2012 , 14, 5479	3.3	24
234	Enhanced catalytic performances of in situ-assembled LaMnO ₃ /MnO ₂ hetero-structures for toluene combustion. <i>Catalysis Today</i> , 2019 , 327, 19-27	5.3	23

233	Influence of structural parameters on methane adsorption over activated carbon: Evaluation by using D ₂ model. <i>Fuel</i> , 2014 , 123, 241-247	7.1	23
232	Four Novel Oxomolybdenum-Organodiphosphonate Hybrids in the Presence of Cu(II) Organonitrogen Building Blocks: Synthesis, Crystal Structures, and Surface Photovoltage Properties. <i>Crystal Growth and Design</i> , 2013 , 13, 226-238	3.5	23
231	Two novel lead(II) carboxyphosphonates with a layered and a 3D framework structure: syntheses, crystal structures, reversible dehydration/hydration, and luminescence properties. <i>Dalton Transactions</i> , 2013 , 42, 8009-17	4.3	23
230	Cobalt-Boron amorphous alloy prepared in water/cetyl-trimethyl-ammonium bromide/n-hexanol microemulsion as anode for alkaline secondary batteries. <i>Electrochimica Acta</i> , 2010 , 55, 2299-2305	6.7	23
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