

Wei Chu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

376
papers

13,686
citations

54
h-index

99
g-index

410
ext. papers

15,812
ext. citations

6.2
avg, IF

6.93
L-index

#	Paper	IF	Citations
376	Experimental and in situ DRIFTS studies on confined metallic copper stabilized Pd species for enhanced CO ₂ reduction to formate. <i>Applied Catalysis B: Environmental</i> , 2022 , 309, 121239	21.8	0
375	Hydrotalcite-derived Ni-LDO catalysts via new approach for enhanced performances in CO ₂ catalytic reduction. <i>Fuel</i> , 2022 , 324, 124491	7.1	0
374	Influence of support precursor on FeCe-TiO ₂ for selective catalytic reduction of NO with ammonia. <i>Molecular Catalysis</i> , 2021 , 508, 111586	3.3	3
373	Cold-plasma technique enabled supported Pt single atoms with tunable coordination for hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2021 , 285, 119861	21.8	13
372	Facile fabrication of hollow structured Cu-Ce binary oxides and their catalytic properties for toluene combustion. <i>Catalysis Today</i> , 2021 , 376, 239-246	5.3	7
371	Toluene catalytic oxidation over the layered MO _x /MnO ₂ (M=Pt, Ir, Ag) composites originated from the facile self-driving combustion method. <i>Fuel</i> , 2021 , 283, 118888	7.1	8
370	Oxidative dehydrogenation of ethane with carbon dioxide over silica molecular sieves supported chromium oxides: Pore size effect. <i>Chinese Journal of Chemical Engineering</i> , 2021 , 34, 77-86	3.2	1
369	One-step plasma-enabled catalytic carbon dioxide hydrogenation to higher hydrocarbons: significance of catalyst-bed configuration. <i>Green Chemistry</i> , 2021 , 23, 1642-1647	10	7
368	Insights into key parameters of MnO ₂ catalyst toward high catalytic combustion performance. <i>Journal of Materials Science</i> , 2021 , 56, 6361-6373	4.3	3
367	Recent advances in single-atom electrocatalysts supported on two-dimensional materials for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 9979-9999	13	15
366	Transition-metal single atoms embedded into defective BC as efficient electrocatalysts for oxygen evolution and reduction reactions. <i>Nanoscale</i> , 2021 , 13, 1331-1339	7.7	11
365	Solvent-free elaboration of Ni-doped MnO _x catalysts with high performance for NH ₃ -SCR in low and medium temperature zones. <i>Molecular Catalysis</i> , 2021 , 501, 111376	3.3	2
364	Designing porous carbon-based multicomponent electrode material for high performance supercapacitor. <i>Journal of Energy Storage</i> , 2021 , 40, 102698	7.8	4
363	Blockade of platelet glycoprotein receptor Ib ameliorates blood-brain barrier disruption following ischemic stroke via Epac pathway. <i>Biomedicine and Pharmacotherapy</i> , 2021 , 140, 111698	7.5	0
362	Chitosan-Derived Porous N-Doped Carbon as a Promising Support for Ru Catalysts in One-Pot Conversion of Cellobiose to Hexitol. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 12655-12662	8.3	2
361	Enhanced low-temperature catalytic performance in CO ₂ hydrogenation over Mn-promoted NiMgAl catalysts derived from quaternary hydrotalcite-like compounds. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 33107-33119	6.7	5
360	Insights into Ni and (Ce)SBA-15-CTA interaction and syngas formation rate. <i>Molecular Catalysis</i> , 2021 , 514, 111850	3.3	1

359	Synergetic Bimetallic NiCo/CNT Catalyst for Hydrogen Production by Glycerol Steam Reforming: Effects of Metal Species Distribution. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 17259-17268	3.9	11
358	Hydrogen production through glycerol steam reforming over the NiCeAl catalysts. <i>Renewable Energy</i> , 2020 , 158, 192-201	8.1	15
357	Microemulsion solvating-out co-precipitation strategy for fabricating highly active CuZnO/Al ₂ O ₃ dual site catalysts for reverse water gas shift. <i>Catalysis Science and Technology</i> , 2020 , 10, 2343-2352	5.5	2
356	Toward a comparative description between transition metal and zeolite catalysts for methanol conversion. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 5293-5300	3.6	3
355	Microwave-assisted synthesis of porous nano-sized Na ₃ V ₂ (PO ₄) ₂ F ₃ @C nanospheres for sodium ion batteries with enhanced stability. <i>Scripta Materialia</i> , 2020 , 181, 92-96	5.6	9
354	Facile synthesis of homogeneous hollow microsphere Cu-Mn based catalysts for catalytic oxidation of toluene. <i>Chemosphere</i> , 2020 , 247, 125812	8.4	20
353	Promoting effect of AuCu alloying on Au-Cu/CeO ₂ -catalyzed CO oxidation: A combined kinetic and in situ DRIFTS study. <i>Journal of Catalysis</i> , 2020 , 382, 329-338	7.3	14
352	A nitrogen-doped mesopore-dominated carbon electrode allied with anti-freezing EMIBF ₄ /GBL electrolyte for superior low-temperature supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 10386-10394	12.2	34
351	Effects of Dopants in PtSn/M-Silicalite-1 on Structural Property and on Catalytic Propane Dehydrogenation Performance. <i>ChemistrySelect</i> , 2020 , 5, 4175-4185	1.8	8
350	Tuning Interfacial Electron Transfer by Anchoring NiFe-LDH on In-situ Grown Cu ₂ O for Enhancing Oxygen Evolution. <i>Catalysis Letters</i> , 2020 , 150, 3049-3057	2.8	4
349	Impacts of Mo Promotion on Nickel-Based Catalysts for the Synthesis of High Quality Carbon Nanotubes Using CO ₂ as the Carbon Source. <i>Journal of Nanoscience and Nanotechnology</i> , 2020 , 20, 1109-1117	11.7	1
348	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
347	Computational screening of transition metal-doped phthalocyanine monolayers for oxygen evolution and reduction. <i>Nanoscale Advances</i> , 2020 , 2, 710-716	5.1	8
346	Density functional theory study of N-doping effect on the stability and activity of Pd/NCNT catalysts for heck reaction. <i>Applied Surface Science</i> , 2020 , 506, 144960	6.7	5
345	Improved facile synthesis of mesoporous SBA-15-CTA using citric acid under mild conditions. <i>Journal of Solid State Chemistry</i> , 2020 , 282, 121079	3.3	3
344	Highly Efficient SiC-Supported Ni-Based Catalysts with Enhanced Recycle Stability for One-Pot Cellobiose Hydrolytic Hydrogenation to Hexitols. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 ,	8.3	2
343	Atomically dispersed metal sites stabilized on a nitrogen doped carbon carrier via N glow-discharge plasma. <i>Chemical Communications</i> , 2020 , 56, 9198-9201	5.8	5
342	Influence of hydrothermal treatment on structural property of NiZrAl mixed-metal oxides and on catalytic steam reforming of glycerol for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 22448-22458	6.7	3

341	Facile Fabrication of Nickel Aluminum Layered Double Hydroxide/Carbon Nanotube Electrodes Toward High-Performance Supercapacitors. <i>ACS Omega</i> , 2020 , 5, 24693-24699	3.9	2
340	Enhanced heterogeneous hydration of SO through immobilization of pyridinic-N on carbon materials. <i>Royal Society Open Science</i> , 2020 , 7, 192248	3.3	
339	High-performance Co _x M _{3-x} AlO _y (M Ni, Mn) catalysts derived from microwave-assisted synthesis of hydrotalcite precursors for methane catalytic combustion. <i>Catalysis Today</i> , 2020 , 347, 23-30	5.3	2
338	Prediction of carbofuran degradation based on the hydroxyl radical generation using the Fe ^{III} impregnated N doped-TiO ₂ /H ₂ O ₂ /visible LED photo-Fenton-like process. <i>Chemical Engineering Journal</i> , 2020 , 382, 122930	14.7	20
337	Glycerol steam reforming for hydrogen production over bimetallic MNi/CNTs (M Co, Cu and Fe) catalysts. <i>Catalysis Today</i> , 2020 , 355, 128-138	5.3	9
336	A periodic density functional theory study of adsorption of CO ₂ on anorthite (001) surface and effect of water. <i>Journal of Theoretical and Computational Chemistry</i> , 2019 , 18, 1950010	1.8	3
335	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
334	Toward Computational Design of Catalysts for CO ₂ Selective Reduction via Reaction Phase Diagram Analysis. <i>Advanced Theory and Simulations</i> , 2019 , 2, 1800200	3.5	10
333	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
332	Exploring a broadened operating pH range for norfloxacin removal via simulated solar-light-mediated Bi ₂ WO ₆ process. <i>Chinese Journal of Catalysis</i> , 2019 , 40, 673-680	11.3	12
331	Various Metals (Ce, In, La, and Fe) Promoted Pt/Sn-SBA-15 as Highly Stable Catalysts for Propane Dehydrogenation. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 10804-10818	3.9	15
330	Plasma assisted preparation of nickel-based catalysts supported on CeO ₂ with different morphologies for hydrogen production by glycerol steam reforming. <i>Powder Technology</i> , 2019 , 354, 324-332	5.2	15
329	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
328	Environmental Remediation Applications of Carbon Nanotubes and Graphene Oxide: Adsorption and Catalysis. <i>Nanomaterials</i> , 2019 , 9,	5.4	64
327	Synthesis of Cu ₂ O Catalysts for Methanol Decomposition to Hydrogen Production via Deposition-Precipitation with Urea Method. <i>Catalysis Letters</i> , 2019 , 149, 2671-2682	2.8	9
326	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
325	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
324	Phase control of 2D binary hydroxides nanosheets via controlling-release strategy for enhanced oxygen evolution reaction and supercapacitor performances. <i>Journal of Energy Chemistry</i> , 2019 , 38, 26-33	12	20

323	Enhanced catalytic performances of in situ-assembled LaMnO ₃ /EMnO ₂ hetero-structures for toluene combustion. <i>Catalysis Today</i> , 2019 , 327, 19-27	5.3	23
322	ZIF-67 Derived Hollow Structured Co ₃ O ₄ Nanocatalysts: Tunable Synthetic Strategy Induced Enhanced Catalytic Performance. <i>Catalysis Letters</i> , 2019 , 149, 3058-3065	2.8	3
321	Tunable Reactivity of MNi ₁₂ (M = Fe, Co, Cu, Zn) Nanoparticles Supported on Graphitic Carbon Nitride in Methanation. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2019 , 35, 850-857	3.8	3
320	Improved Catalytic Performance of Ethane Dehydrogenation in the Presence of CO over Zr-Promoted Cr/SiO ₂ . <i>ACS Omega</i> , 2019 , 4, 22562-22573	3.9	18
319	Confined PtNi catalysts for enhanced catalytic performances in one-pot cellobiose conversion to hexitols: a combined experimental and DFT study. <i>Green Chemistry</i> , 2019 , 21, 5999-6011	10	8
318	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
317	Rapid synthesis of ultrafine NiCo ₂ O ₄ nanoparticles loaded carbon nanotubes for lithium ion battery anode materials. <i>Chemical Physics Letters</i> , 2019 , 715, 278-283	2.5	15
316	The role of Zr in NiZrAl oxides catalyst and the evaluation on steam reforming of glycerol for hydrogen product. <i>Catalysis Today</i> , 2019 , 319, 229-238	5.3	18
315	Effects of preparation methods on CoAlO _x /CeO ₂ catalysts for methane catalytic combustion. <i>Fuel</i> , 2018 , 225, 588-595	7.1	30
314	A facile one-pot solvothermal method for synthesis of magnetically recoverable Pd-Fe ₃ O ₄ hybrid nanocatalysts for the Mizoroki-Bäck reaction. <i>Chemical Physics Letters</i> , 2018 , 695, 183-189	2.5	6
313	Promising SiC support for Pd catalyst in selective hydrogenation of acetylene to ethylene. <i>Applied Surface Science</i> , 2018 , 442, 736-741	6.7	21
312	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
311	Pd nanoparticles immobilized on carbon nanotubes with a polyaniline coaxial coating for the Heck reaction: coating thickness as the key factor influencing the efficiency and stability of the catalyst. <i>Catalysis Science and Technology</i> , 2018 , 8, 1423-1434	5.5	19
310	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
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	Biosourced Foam-Like Activated Carbon Materials as High-Performance Supercapacitors. <i>Advanced Sustainable Systems</i> , 2018 , 2, 1700123	5.9	26
307	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. <i>Catalysis Science and Technology</i> , 2018 , 8, 907-915	5.5	27
306	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

305	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
304	Ru/FeOx catalyst performance design: Highly dispersed Ru species for selective carbon dioxide hydrogenation. <i>Chinese Journal of Catalysis</i> , 2018 , 39, 157-166	11.3	7
303	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
302	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
301	UiO-66-NH ₂ /ZGO Composite: Synthesis, Characterization and CO ₂ Adsorption Performance. <i>Materials</i> , 2018 , 11,	3.5	55
300	Silica-assisted mesoporous Co@Carbon nanoplates derived from ZIF-67 crystals and their enhanced catalytic activity. <i>Journal of Solid State Chemistry</i> , 2018 , 267, 134-139	3.3	8
299	Probing the enhanced catalytic activity of carbon nanotube supported Ni-LaO hybrids for the CO reduction reaction. <i>Nanoscale</i> , 2018 , 10, 14207-14219	7.7	22
298	Polyelectrolyte Assisted Preparation of Nanocatalysts for CO ₂ Methanation. <i>Engineered Science</i> , 2018 ,	3.8	7
297	Adsorption of acetylene on ordered NiAg _{1-x} /Ni (111) and effect of Ag-dopant: A DFT study. <i>Applied Surface Science</i> , 2018 , 435, 521-528	6.7	9
296	Microwave-Assisted Synthesis of NiCoO Double-Shelled Hollow Spheres for High-Performance Sodium Ion Batteries. <i>Nano-Micro Letters</i> , 2018 , 10, 13	19.5	31
295	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
294	Carbon Nanotubes Supported Nickel as the Highly Efficient Catalyst for Hydrogen Production through Glycerol Steam Reforming. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 14403-14413	8.3	21
293	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
292	Assembling Carbon into Anatase TiO ₂ as Interstitial Atoms towards Photocatalytic Activity. <i>European Journal of Inorganic Chemistry</i> , 2018 , 2018, 4370-4374	2.3	5
291	Microwave-assisted synthesis of high performance copper-based catalysts for hydrogen production from methanol decomposition. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 12059-12068	6.7	14
290	Hydrogenation of cinnamaldehyde over bimetallic AuCu/CeO ₂ catalyst under a mild condition. <i>Chinese Chemical Letters</i> , 2017 , 28, 293-296	8.1	14
289	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
288	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

287	Cobalt nanoparticles embedded in a porous carbon matrix as an efficient catalyst for ammonia decomposition. <i>Catalysis Science and Technology</i> , 2017 , 7, 1363-1371	5.5	16
286	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
285	Layered Double Hydroxides Derived ZnO-Al ₂ O ₃ Supported Pd-Ag Catalysts for Selective Hydrogenation of Acetylene. <i>Chinese Journal of Chemistry</i> , 2017 , 35, 1009-1015	4.9	9
284	Experimental Study of Silver-Loaded Mesoporous Silica for the Separation of Ethylene and Ethane. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 2562-2569	2.8	6
283	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
282	Physicochemical Studies of Adsorptive Denitrogenation by Oxidized Activated Carbons. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 5033-5041	3.9	18
281	Ordered mesoporous Sn-SBA-15 as support for Pt catalyst with enhanced performance in propane dehydrogenation. <i>Chinese Journal of Catalysis</i> , 2017 , 38, 726-735	11.3	29
280	Formation of poly(acrylic acid)/alumina composite via in situ polymerization of acrylic acid adsorbed within oxide pores. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 514, 168-177	5.1	9
279	Atmospheric Discharge Plasma Enhanced Preparation of Pd/TiO ₂ Catalysts for Acetylene Selective Hydrogenation. <i>Topics in Catalysis</i> , 2017 , 60, 1009-1015	2.3	8
278	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	9.5	61
277	Enhancement of hydrogen sorption on metal(Ni, Rh, Pd) functionalized carbon nanotubes: a DFT study. <i>Chemical Research in Chinese Universities</i> , 2017 , 33, 422-429	2.2	6
276	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
275	High activity of a Pt decorated Ni/C nanocatalyst for hydrogen oxidation. <i>Chinese Journal of Catalysis</i> , 2017 , 38, 396-403	11.3	9
274	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
273	Synthesis of graphene-like Cu ₂ B ₂₃ nanosheets with a fast and stable response to H ₂ S at ppb detection levels. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 3216-3221	7.1	7
272	Oxygenated group and structural defect enriched carbon nanotubes for immobilizing gold nanoparticles. <i>Chemical Communications</i> , 2017 , 53, 12750-12753	5.8	17
271	Catalytic Performance and Characterization of Anatase TiO ₂ Supported Pd Catalysts for the Selective Hydrogenation of Acetylene. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2017 , 33, 602-610	2.8	8
270	Enhanced interaction of nickel clusters with pyridinic-N (B) doped graphene using DFT simulation. <i>Computational and Theoretical Chemistry</i> , 2017 , 1120, 8-16	2	18

269	Sonochemical synthesis of magnetic properties of Fe ₃ O ₄ /CNT nanocomposites. <i>Integrated Ferroelectrics</i> , 2017 , 179, 77-83	0.8	5
268	Embedded MoN@C nanocomposites as an advanced catalyst for ammonia decomposition to CO _x -free hydrogen. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 30630-30638	6.7	13
267	Decoration of CNTs surface by Fe ₃ O ₄ nanoparticles: Influence of ultrasonication time on the magnetic and structural properties. <i>Chinese Chemical Letters</i> , 2017 , 28, 302-306	8.1	12
266	Mechanism of enhanced diclofenac mineralization by catalytic ozonation over iron silicate-loaded pumice. <i>Separation and Purification Technology</i> , 2017 , 173, 55-62	8.3	31
265	Impacts of SiC Carrier and Nickel Precursor of NiLa/support Catalysts for CO ₂ Selective Hydrogenation to Synthetic Natural Gas (SNG). <i>ChemistrySelect</i> , 2017 , 2, 3750-3757	1.8	10
264	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
263	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
262	Promoter effect of La ₂ O ₃ on gold catalyst with different textural structures. <i>Journal of Energy Chemistry</i> , 2016 , 25, 854-860	12	3
261	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
260	Effect of a second metal (Co, Cu, Mn or Zr) on nickel catalysts derived from hydrotalcites for the carbon dioxide reforming of methane. <i>RSC Advances</i> , 2016 , 6, 70537-70546	3.7	27
259	Effects of the crystallization time on the mesoporous structure, texture, morphology and styrene oxidation performances of V-MCM-41. <i>Journal of Energy Chemistry</i> , 2016 , 25, 1058-1063	12	7
258	Coalbed methane adsorption and desorption characteristics related to coal particle size. <i>Chinese Physics B</i> , 2016 , 25, 068102	1.2	15
257	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
256	Highly stable bimetallic Au ₂ Cu supported on Al ₂ O ₃ for selective CO oxidation in H ₂ -rich gas: effects of Cu/Au atomic ratio and sensitive influence of particle size. <i>RSC Advances</i> , 2016 , 6, 4899-4907	3.7	11
255	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
254	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
253	Synthesis of octahedral, truncated octahedral, and cubic Rh ₂ Ni nanocrystals and their structure-activity relationship for the decomposition of hydrazine in aqueous solution to hydrogen. <i>Nanoscale</i> , 2016 , 8, 7043-55	7.7	18
252	Nanoparticles-in-concavities as efficient nanocatalysts for carbon dioxide reforming of methane to hydrogen and syngas. <i>Catalysis Science and Technology</i> , 2016 , 6, 4565-4576	5.5	7

251	Effects of ultrasonic impregnation combined with calcination in N ₂ atmosphere on the property of Co ₃ O ₄ /CeO ₂ composites for catalytic methane combustion. <i>Journal of Energy Chemistry</i> , 2016 , 25, 387-392	12	21
250	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
249	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
248	Promotion Effect of CaO Modification on Mesoporous Al ₂ O ₃ -Supported Ni Catalysts for CO ₂ Methanation. <i>International Journal of Chemical Engineering</i> , 2016 , 2016, 1-7	2.2	17
247	Simulation and experiment research of aerodynamic performance of small axial fans with struts. <i>Journal of Thermal Science</i> , 2016 , 25, 216-222	1.9	2
246	Effect of Ca modification on the catalytic performance of Ni/AC for CO ₂ methanation. <i>Integrated Ferroelectrics</i> , 2016 , 172, 40-48	0.8	14
245	Novel synthesis of RGO/NiCoAl(OH) nanosheets on nickel foam for supercapacitors with high capacitance. <i>RSC Advances</i> , 2016 , 6, 113123-113131	3.7	18
244	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
243	CO ₂ selective hydrogenation to synthetic natural gas (SNG) over four nano-sized Ni/ZrO ₂ samples: ZrO ₂ crystalline phase & treatment impact. <i>Journal of Energy Chemistry</i> , 2016 , 25, 1070-1077	12	20
242	Theoretical insight into the enhanced CH ₄ desorption via H ₂ O adsorption on different rank coal surfaces. <i>Journal of Energy Chemistry</i> , 2016 , 25, 677-682	12	19
241	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
240	DFT studies of Ni cluster on graphene surface: effect of CO ₂ activation. <i>RSC Advances</i> , 2016 , 6, 96545-96553	5.3	23
239	Mesoporous Face-Centered-Cubic In ₄ Ni Alloy Nanorices: Superior Catalysts for Hydrazine Dehydrogenation in Aqueous Solution. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 25268-78	9.5	16
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