Yongdan Li

List of Publications by Citations

333 papers	11,727 citations	56 h-index	91 g-index
358 ext. papers	13,196 ext. citations	6.4 avg, IF	6.74 L-index

#	Paper	IF	Citations
333	Biomass into chemicals: Conversion of sugars to furan derivatives by catalytic processes. *Applied Catalysis A: General*, **2010**, 385, 1-13	5.1	639
332	Methane decomposition to COx-free hydrogen and nano-carbon material on group 8–10 base metal catalysts: A review. *Catalysis Today*, **2011**, 162, 1-48	5.3	325
331	Catalytic ethanolysis of Kraft lignin into high-value small-molecular chemicals over a nanostructured α-molybdenum carbide catalyst. *Angewandte Chemie - International Edition*, **2014**, 53, 7310-5	16.4	232
330	Recent advances in the selective catalytic reduction of NOx with NH3 on Cu-Chabazite catalysts. *Applied Catalysis B: Environmental*, **2017**, 202, 346-354	21.8	222
329	Non-aqueous vanadium acetylacetonate electrolyte for redox flow batteries. *Electrochemistry Communications*, **2009**, 11, 2312-2315	5.1	212
328	Efficient and selective dehydration of fructose to 5-hydroxymethylfurfural catalyzed by Brønsted-acidic ionic liquids. *ChemSusChem*, **2010**, 3, 350-5	8.3	180
327	A Review on the Pd-Based Three-Way Catalyst. *Catalysis Reviews - Science and Engineering*, **2015**, 57, 79-144	12.6	174
326	Simultaneous Production of Hydrogen and Nanocarbon from Decomposition of Methane on a Nickel-Based Catalyst. *Energy & Fuels*, **2000**, 14, 1188-1194	4.1	163
325	Non-aqueous chromium acetylacetonate electrolyte for redox flow batteries. *Electrochemistry Communications*, **2010**, 12, 1634-1637	5.1	161
324	Non-aqueous manganese acetylacetonate electrolyte for redox flow batteries. *Journal of Power Sources*, **2011**, 196, 5742-5745	8.9	147
323	Chemical Stability and Its Improvement of Palladium-Based Metallic Membranes. *Industrial & Engineering Chemistry Research*, **2004**, 43, 6920-6930	3.9	145
322	Palladium nanoparticles stabilized by an ionic polymer and ionic liquid: a versatile system for C-C cross-coupling reactions. *Inorganic Chemistry*, **2008**, 47, 3292-7	5.1	143
321	A high performance composite ionic conducting electrolyte for intermediate temperature fuel cell and evidence for ternary ionic conduction. *Journal of Power Sources*, **2009**, 188, 156-162	8.9	138
320	Measurement and statistics of single pellet mechanical strength of differently shaped catalysts. *Powder Technology*, **2000**, 113, 176-184	5.2	133
319	A review on oxygen storage capacity of CeO2-based materials: Influence factors, measurement techniques, and applications in reactions related to catalytic automotive emissions control. *Catalysis Today*, **2019**, 327, 90-115	5.3	125
318	Bond-making and breaking between carbon, nitrogen, and oxygen in electrocatalysis. *Journal of the American Chemical Society*, **2014**, 136, 15694-701	16.4	124
317	Intermediate temperature fuel cell with a doped ceria–carbonate composite electrolyte. *Journal of Power Sources*, **2010**, 195, 3149-3154	8.9	124

316	Recent progress on solid oxide fuel cell: Lowering temperature and utilizing non-hydrogen fuels. *International Journal of Hydrogen Energy*, **2013**, 38, 16498-16517	6.7	116
315	A direct carbon fuel cell with (molten carbonate)/(doped ceria) composite electrolyte. *Journal of Power Sources*, **2010**, 195, 5581-5586	8.9	112
314	Performance of ionic-conducting ceramic/carbonate composite material as solid oxide fuel cell electrolyte and CO2 permeation membrane. *Catalysis Today*, **2009**, 148, 303-309	5.3	106
313	Carbon dioxide reforming of methane over nickel-grafted SBA-15 and MCM-41 catalysts. *Catalysis Today*, **2009**, 148, 243-250	5.3	106
312	Production of COx-free hydrogen and nanocarbon by direct decomposition of undiluted methane on Ni□Cu□alumina catalysts. *Applied Catalysis A: General*, **2004**, 269, 179-186	5.1	105
311	A FTIR and TPD examination of the distributive properties of acid sites on ZSM-5 zeolite with pyridine as a probe molecule. *Catalysis Today*, **2009**, 145, 101-107	5.3	104
310	Methane decomposition to carbon nanotubes and hydrogen on an alumina supported nickel aerogel catalyst. *Catalysis Today*, **2002**, 74, 145-155	5.3	104
309	Electroless plating synthesis, characterization and permeation properties of Pd□Cu membranes supported on ZrO2 modified porous stainless steel. *Journal of Membrane Science*, **2005**, 265, 142-152	9.6	103
308	Common Pathways in Ethanolysis of Kraft Lignin to Platform Chemicals over Molybdenum-Based Catalysts. *ACS Catalysis*, **2015**, 5, 4803-4813	13.1	98
307	Microstructure and growth of bamboo-shaped carbon nanotubes. *Chemical Physics Letters*, **2001**, 333, 509-514	2.5	96
306	The Doping Effect of Copper on the Catalytic Growth of Carbon Fibers from Methane over a Ni/Al2O3Catalyst Prepared from Feitknecht Compound Precursor. *Journal of Catalysis*, **1998**, 178, 76-83	7.3	95
305	Biphasic hydrogenation over PVP stabilized Rh nanoparticles in hydroxyl functionalized ionic liquids. *Inorganic Chemistry*, **2008**, 47, 7444-6	5.1	95
304	Vertically aligned carbon nanotube membranes on macroporous alumina supports. *Journal of Membrane Science*, **2007**, 304, 1-7	9.6	90
303	Modeling and analysis of carbon dioxide permeation through ceramic-carbonate dual-phase membranes. *Journal of Membrane Science*, **2009**, 345, 110-118	9.6	88
302	Catalytic growth of carbon fibers from methane on a nickel-alumina composite catalyst prepared from Feitknecht compound precursor. *Applied Catalysis A: General*, **1997**, 163, 45-57	5.1	87
301	Direct CH4 fuel cell using Sr2FeMoO6 as an anode material. *Journal of Power Sources*, **2011**, 196, 6104-6109	8.9	85
300	Enhanced production of carbon nanotubes: combination of catalyst reduction and methane decomposition. *Applied Catalysis A: General*, **2004**, 258, 121-124	5.1	82
299	Utilization of corn cob biochar in a direct carbon fuel cell. *Journal of Power Sources*, **2014**, 270, 312-317	8.9	75

298	Ionic conducting ceramic and carbonate dual phase membranes for carbon dioxide separation. *Journal of Membrane Science*, **2012**, 417-418, 174-182	9.6	75
297	An efficient catalytic dehydration of fructose and sucrose to 5-hydroxymethylfurfural with protic ionic liquids. *Carbohydrate Research*, **2010**, 345, 1698-701	2.9	75
296	Advanced three-component ZnO/Ag/CdS nanocomposite photoanode for photocatalytic water splitting. *Journal of Power Sources*, **2014**, 269, 466-472	8.9	74
295	Selective catalytic conversion of guaiacol to phenols over a molybdenum carbide catalyst. *Chemical Communications*, **2015**, 51, 10299-301	5.8	73
294	Suzuki Coupling Reactions in Ether-Functionalized Ionic Liquids: The Importance of Weakly Interacting Cations. *Organometallics*, **2008**, 27, 3971-3977	3.8	73
293	A ternary g-C 3 N 4 /Pt/ZnO photoanode for efficient photoelectrochemical water splitting. *International Journal of Hydrogen Energy*, **2015**, 40, 9080-9087	6.7	71
292	Single layer fuel cell based on a composite of Ce0.8Sm0.2O2 Na2CO3 and a mixed ionic and electronic conductor Sr2Fe1.5Mo0.5O6 *Journal of Power Sources*, **2014**, 249, 270-276	8.9	71
291	Formation of bamboo-shaped carbon filaments and dependence of their morphology on catalyst composition and reaction conditions. *Carbon*, **2001**, 39, 1467-1475	10.4	70
290	Formation of bamboo-like nanocarbon and evidence for the quasi-liquid state of nanosized metal particles at moderate temperatures. *Chemical Communications*, **1999**, 1141-1142	5.8	68
289	Production of Hydrogen and Nanocarbon from Catalytic Decomposition of Methane over a Ni Fe/Al2O3 Catalyst. *Energy & Fuels*, **2013**, 27, 4448-4456	4.1	65
288	High-Temperature Stability of Palladium Membranes on Porous Metal Supports with Different Intermediate Layers. *Industrial & Engineering Chemistry Research*, **2009**, 48, 1880-1886	3.9	65
287	Tetrabutylammonium hexafluorophosphate and 1-ethyl-3-methyl imidazolium hexafluorophosphate ionic liquids as supporting electrolytes for non-aqueous vanadium redox flow batteries. *Journal of Power Sources*, **2012**, 203, 201-205	8.9	64
286	Experimental investigation of direct carbon fuel cell fueled by almond shell biochar: Part I. Physico-chemical characterization of the biochar fuel and cell performance examination. *International Journal of Hydrogen Energy*, **2013**, 38, 16590-16604	6.7	64
285	Fabrication and growth mechanism of carbon nanotubes by catalytic chemical vapor deposition. *Materials Letters*, **2006**, 60, 159-163	3.3	64
284	Defunctionalization of fructose and sucrose: Iron-catalyzed production of 5-hydroxymethylfurfural from fructose and sucrose. *Catalysis Today*, **2011**, 175, 524-527	5.3	62
283	Hydrolytic Cleavage of C O Linkages in Lignin Model Compounds Catalyzed by Water-Tolerant Lewis Acids. *Industrial & Engineering Chemistry Research*, **2014**, 53, 2633-2639	3.9	60
282	Adsorption of l-Phenylalanine on Single-Walled Carbon Nanotubes. *Journal of Physical Chemistry C*, **2008**, 112, 2857-2863	3.8	59
281	A carbon in molten carbonate anode model for a direct carbon fuel cell. *Electrochimica Acta*, **2010**, 55, 1958-1965	6.7	58

280	The application of a non-aqueous bis(acetylacetone)ethylenediamine cobalt electrolyte in redox flow battery. *Journal of Power Sources*, **2012**, 217, 199-203	8.9	57
279	Evidence of composition deviation of metal particles of a Ni□Cu/Al2O3 catalyst during methane decomposition to COx-free hydrogen. *International Journal of Hydrogen Energy*, **2009**, 34, 299-307	6.7	57
278	Modeling and simulation of a single direct carbon fuel cell. *Journal of Power Sources*, **2008**, 185, 1022-1029	7.9	57
277	Thermodynamic Analysis of Hydrogen Production from Oxidative Steam Reforming of Ethanol. *Energy & Fuels*, **2008**, 22, 1365-1370	4.1	56
276	Ethanolysis of Kraft lignin to platform chemicals on a MoC1-x/Cu-MgAlOz catalyst. *Applied Catalysis B: Environmental*, **2017**, 202, 305-313	21.8	55
275	Catalytic Ethanolysis of Kraft Lignin into High-Value Small-Molecular Chemicals over a Nanostructured □Molybdenum Carbide Catalyst. *Angewandte Chemie*, **2014**, 126, 7438-7443	3.6	55
274	Nitrile-functionalized pyrrolidinium ionic liquids as solvents for cross-coupling reactions involving in situ generated nanoparticle catalyst reservoirs. *Physical Chemistry Chemical Physics*, **2010**, 12, 1834-41	3.6	54
273	Mechanical strength of solid catalysts: Recent developments and future prospects. *AICHE Journal*, **2007**, 53, 2618-2629	3.6	54
272	PdS-modified CdS/NiS composite as an efficient photocatalyst for H2 evolution in visible light. *Catalysis Today*, **2014**, 225, 136-141	5.3	53
271	Enhancing the activity of a SiC□TiO2 composite catalyst for photo-stimulated catalytic water splitting. *International Journal of Hydrogen Energy*, **2013**, 38, 3898-3904	6.7	52
270	Solvent-Enhanced Coupling of Sterically Hindered Reagents and Aryl Chlorides using Functionalized Ionic Liquids. *Organometallics*, **2009**, 28, 937-939	3.8	52
269	Investigation of chemical and electrochemical reactions mechanisms in a direct carbon fuel cell using olive wood charcoal as sustainable fuel. *Journal of Power Sources*, **2015**, 281, 350-361	8.9	51
268	Effect of the sulfidation process on the mechanical properties of a CoMoP/Al2O3 hydrotreating catalyst. *Chemical Engineering Science*, **2009**, 64, 198-206	4.4	51
267	Low-temperature synthesis of carbon onions by chemical vapor deposition using a nickel catalyst supported on aluminum. *Scripta Materialia*, **2006**, 54, 689-693	5.6	50
266	Cobalt sulfide quantum dots modified TiO 2 nanoparticles for efficient photocatalytic hydrogen evolution. *International Journal of Hydrogen Energy*, **2014**, 39, 15387-15393	6.7	49
265	Quantifying multi-ionic conduction through doped ceria-carbonate composite electrolyte by a current-interruption technique and product analysis. *International Journal of Hydrogen Energy*, **2012** , 37, 8556-8561	6.7	49
264	A review on thermal chemical reactions of lignin model compounds. *Catalysis Today*, **2017**, 298, 276-297	5.3	48
263	Alumina supported molybdenum catalyst for lignin valorization: Effect of reduction temperature. *Bioresource Technology*, **2015**, 192, 17-22	11	48

262	Mesoporous CuMn Hopcalite catalyst and its performance in low temperature ethylene combustion in a carbon dioxide stream. *Applied Catalysis A: General*, **2009**, 370, 59-65	5.1	48
261	A non-aqueous all-cobalt redox flow battery using 1,10-phenanthrolinecobalt(II) hexafluorophosphate as active species. *Journal of Power Sources*, **2015**, 279, 205-209	8.9	47
260	Unbiased estimation of Weibull parameters with the linear regression method. *Journal of the European Ceramic Society*, **2006**, 26, 1099-1105	6	47
259	Catalytic synthesized carbon nanostructures from methane using nanocrystalline Ni. *Carbon*, **2002**, 40, 409-415	10.4	47
258	Production of phenols from catalytic conversion of lignin over a tungsten phosphide catalyst. *Applied Catalysis A: General*, **2014**, 481, 64-70	5.1	46
257	Understandings on the scattering property of the mechanical strength data of solid catalysts: A statistical analysis of iron-based high-temperature water-gas shift catalysts. *Catalysis Today*, **1999**, 51, 73-84	5.3	45
256	Why (1 0 0) terraces break and make bonds: oxidation of dimethyl ether on platinum single-crystal electrodes. *Journal of the American Chemical Society*, **2013**, 135, 14329-38	16.4	44
255	A-Site Ordered Double Perovskite with in Situ Exsolved Core-Shell Nanoparticles as Anode for Solid Oxide Fuel Cells. *ACS Applied Materials & Interfaces*, **2019**, 11, 6995-7005	9.5	43
254	Promoting effects of doping ZnO into coprecipitated Ni-Al2O3 catalyst on methane decomposition to hydrogen and carbon nanofibers. *Applied Catalysis A: General*, **2008**, 337, 148-154	5.1	43
253	Effect of the calcination temperature on the performance of a CeMoOx catalyst in the selective catalytic reduction of NOx with ammonia. *Catalysis Today*, **2015**, 245, 10-15	5.3	42
252	Ni2P clusters on zeolite nanosheet assemblies with high activity and good stability in the hydrodesulfurization of 4,6-dimethyldibenzothiophene. *Journal of Catalysis*, **2016**, 338, 210-221	7.3	42
251	Efficient photocatalytic hydrogen production from water over CuO and carbon fiber comodified TiO2 nanocomposite photocatalyst. *International Journal of Hydrogen Energy*, **2013**, 38, 16649-16655	6.7	42
250	Interaction of Amino Acids and Single-Wall Carbon Nanotubes. *Journal of Physical Chemistry C*, **2012** , 116, 1724-1731	3.8	42
249	Effects of the number of testing specimens and the estimation methods on the Weibull parameters of solid catalysts. *Chemical Engineering Science*, **2001**, 56, 7035-7044	4.4	42
248	Phosphorus modification to improve the hydrothermal stability of a Cu-SSZ-13 catalyst for selective reduction of NOx with NH3. *Applied Catalysis B: Environmental*, **2019**, 252, 230-239	21.8	41
247	Polypropylene fiber supported ionic liquids for the conversion of fructose to 5-hydroxymethylfurfural under mild conditions. *Green Chemistry*, **2013**, 15, 3438	10	40
246	A tunable process: catalytic transformation of renewable furfural with aliphatic alcohols in the presence of molecular oxygen. *Chemical Communications*, **2015**, 51, 3674-7	5.8	40
245	Validation of H+/O2 conduction in doped ceria carbonate composite material using an electrochemical pumping method. *International Journal of Hydrogen Energy*, **2012**, 37, 11378-11382	6.7	40

244	Electrochemical oxidation of graphite in an intermediate temperature direct carbon fuel cell based on two-phases electrolyte. *International Journal of Hydrogen Energy*, **2013**, 38, 8514-8523	6.7	39
243	Selective conversion of guaiacol to substituted alkylphenols in supercritical ethanol over MoO3. *Applied Catalysis B: Environmental*, **2017**, 219, 592-602	21.8	39
242	Synergy effect of MgO and ZnO in a Ni/MgZnAl catalyst during ethanol steam reforming for H2-rich gas production. *Catalysis Today*, **2011**, 178, 206-213	5.3	39
241	Analysis of oxygen permeation through dense ceramic membranes with chemical reactions of finite rate. *Chemical Engineering Science*, **2009**, 64, 172-179	4.4	39
240	Influence of calcination temperatures of Feitknecht compound precursor on the structure of NiAl2O3 catalyst and the corresponding catalytic activity in methane decomposition to hydrogen and carbon nanofibers. *Applied Catalysis A: General*, **2009**, 362, 1-7	5.1	39
239	Production of Hydrogen and Nanocarbon from Direct Decomposition of Undiluted Methane on High-nickeled NiCuAlumina Catalysts. *Chemistry Letters*, **2003**, 32, 424-425	1.7	39
238	Oxide ion and proton conduction in doped ceriacarbonate composite materials. *International Journal of Hydrogen Energy*, **2013**, 38, 1553-1559	6.7	38
237	Study on purification and tip-opening of CNTs fabricated by CVD. *Materials Research Bulletin*, **2006**, 41, 2204-2209	5.1	38
236	Preparation and NO x -assisted soot oxidation activity of a CuOCeO 2 mixed oxide catalyst. *Chemical Engineering Science*, **2015**, 135, 294-300	4.4	37
235	Effect of citric acid addition on the morphology and activity of Ni2P supported on mesoporous zeolite ZSM-5 for the hydrogenation of 4,6-DMDBT and phenanthrene. *Journal of Catalysis*, **2017**, 345, 295-307	7.3	36
234	An all perovskite direct methanol solid oxide fuel cell with high resistance to carbon formation at the anode. *RSC Advances*, **2012**, 2, 3857	3.7	36
233	SrCo0.8Fe0.2O3sorbent for high-temperature production of oxygen-enriched carbon dioxide stream. *Fuel*, **2010**, 89, 1429-1434	7.1	36
232	Methods for estimating Weibull parameters for brittle materials. *Journal of Materials Science*, **2006**, 41, 5630-5638	4.3	36
231	A non-aqueous redox flow battery based on tris(1,10-phenanthroline) complexes of iron(II) and cobalt(II). *Journal of Power Sources*, **2015**, 293, 778-783	8.9	35
230	Improved photoelectrochemical property of a nanocomposite NiO/CdS@ZnO photoanode for water splitting. *Solar Energy Materials and Solar Cells*, **2015**, 132, 40-46	6.4	35
229	Electrochemical oxidation of catalytic grown carbon fiber in a direct carbon fuel cell using Ce0.8Sm0.2O1.9-carbonate electrolyte. *International Journal of Hydrogen Energy*, **2013**, 38, 16615-16622	6.7	35
228	Advanced electrolyte-free fuel cells based on functional nanocomposites of a single porous component: analysis, modeling and validation. *RSC Advances*, **2012**, 2, 8036	3.7	35
227	Thermodynamic analysis of hydrogen production for fuel cell via oxidative steam reforming of propane. *International Journal of Hydrogen Energy*, **2010**, 35, 6726-6737	6.7	35

226	Improved activity and stability of Ni-Ce0.8Sm0.2O1.9 anode for solid oxide fuel cells fed with methanol through addition of molybdenum. *Journal of Power Sources*, **2016**, 320, 251-256	8.9	34
225	Templating Sol-Gel Hematite Films with Sacrificial Copper Oxide: Enhancing Photoanode Performance with Nanostructure and Oxygen Vacancies. *ACS Applied Materials & Interfaces*, **2015**, 7, 16999-7007	9.5	33
224	Experimental investigation of Direct Carbon Fuel Cell fueled by almond shell biochar: Part II. Improvement of cell stability and performance by a three-layer planar configuration. *International Journal of Hydrogen Energy*, **2013**, 38, 16605-16614	6.7	33
223	Investigation on the structure and the oxidation activity of the solid carbon produced from catalytic decomposition of methane. *Fuel*, **2010**, 89, 943-948	7.1	33
222	A carbon-quantum-dot-sensitized ZnO:Ga/ZnO multijunction composite photoanode for photoelectrochemical water splitting under visible light irradiation. *Journal of Catalysis*, **2017**, 346, 70-77	7.3	32
221	Effect of Ce and La dopants in Co3O4 nanorods on the catalytic activity of CO and C3H6 oxidation. *Catalysis Science and Technology*, **2019**, 9, 1165-1177	5.5	32
220	Sr2Fe2−xMoxO6−δ perovskite as an anode in a solid oxide fuel cell: Effect of the substitution ratio. *Catalysis Today*, **2016**, 259, 417-422	5.3	32
219	Evaluation of Ni/SDC as anode material for dry CH4 fueled Solid Oxide Fuel Cells. *Journal of Power Sources*, **2014**, 248, 239-245	8.9	32
218	Thermodynamic analysis of hydrogen production for fuel cells from oxidative steam reforming of methanol. *Fuel*, **2012**, 97, 805-811	7.1	32
217	MCM-41 Overgrown on Y Composite Zeolite as Support of Pd−Pt Catalyst for Hydrogenation of Polyaromatic Compounds. *Industrial & Engineering Chemistry Research*, **2007**, 46, 4186-4192	3.9	32
216	A high-performance all-iron non-aqueous redox flow battery. *Journal of Power Sources*, **2020**, 445, 227338	8.9	32
215	Remarkable improvement of the turn-on characteristics of a Fe 2 O 3 photoanode for photoelectrochemical water splitting with coating a FeCoW oxyhydroxide gel. *Applied Catalysis B: Environmental*, **2017**, 212, 89-96	21.8	31
214	Effect of alkaline and atom-planting treatment on the catalytic performance of ZSM-5 catalyst in pyridine and picolines synthesis. *Applied Catalysis A: General*, **2008**, 350, 71-78	5.1	31
213	The promotion effect of CeOx on Cu-SAPO-34 catalyst for selective catalytic reduction of NOx with ammonia. *Catalysis Today*, **2015**, 258, 28-34	5.3	30
212	A benzophenone-based anolyte for high energy density all-organic redox flow battery. *International Journal of Hydrogen Energy*, **2017**, 42, 17488-17494	6.7	29
211	Alumina supported Pt–Mo2C catalysts for the water-gas shift reaction. *Journal of Catalysis*, **2013**, 304, 92-99	7.3	29
210	Hydrogen separation through palladium-copper membranes on porous stainless steel with sol-gel derived ceria as diffusion barrier. *Fuel*, **2010**, 89, 1274-1279	7.1	29
209	Effects of the calcination conditions on the mechanical properties of a PCoMo/Al2O3 hydrotreating catalyst. *Chemical Engineering Science*, **2002**, 57, 3495-3504	4.4	29

208	Carbon-resistant Ni1-xCox-Ce0.8Sm0.2O1.9 anode for solid oxide fuel cells fed with methanol. *Catalysis Today*, **2017**, 298, 250-257	5.3	28
207	Effects of ball milling on structural changes and hydrolysis of lignocellulosic biomass in liquid hot-water compressed carbon dioxide. *Korean Journal of Chemical Engineering*, **2016**, 33, 2134-2141	2.8	28
206	Effect of metal-support interface on hydrogen permeation through palladium membranes. *AICHE Journal*, **2009**, 55, 630-639	3.6	28
205	Preparation and characterization of Beta/MCM-41composite zeolite with a stepwise-distributed pore structure. *Powder Technology*, **2008**, 183, 73-78	5.2	28
204	Effect of the mechanical failure of catalyst pellets on the pressure drop of a reactor. *Chemical Engineering Science*, **2003**, 58, 3995-4004	4.4	28
203	A SnO2-samarium doped ceria additional anode layer in a direct carbon fuel cell. *Journal of Power Sources*, **2016**, 306, 387-393	8.9	27
202	Suppressing the electron□ole recombination rate in hematite photoanode with a rapid cooling treatment. *Journal of Catalysis*, **2017**, 350, 48-55	7.3	26
201	Enhanced hydrothermal stability of a Cu-SSZ-13 catalyst for the selective reduction of NOx by NH3 synthesized with SAPO-34 micro-crystallite as seed. *Journal of Catalysis*, **2019**, 377, 218-223	7.3	26
200	Highly efficient aerobic oxidation of biomass-derived 5-hydroxymethyl furfural to produce 2,5-diformylfuran in the presence of copper salts. *RSC Advances*, **2014**, 4, 44307-44311	3.7	26
199	Synthesis of mesoporous MOR materials by varying temperature crystallizations and combining ternary organic templates. *Microporous and Mesoporous Materials*, **2012**, 147, 259-266	5.3	26
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197	Enhanced Activation and Decomposition of CH4 by the Addition of C2H4 or C2H2 for Hydrogen and Carbon Nanotube Production. *Journal of Physical Chemistry C*, **2008**, 112, 7588-7593	3.8	26
196	Production of hydrogen from methane decomposition using nanosized carbon black as catalyst in a fluidized-bed reactor. *International Journal of Hydrogen Energy*, **2009**, 34, 9730-9736	6.7	25
195	A single layer solid oxide fuel cell composed of La2NiO4 and doped ceria-carbonate with H2 and methanol as fuels. *International Journal of Hydrogen Energy*, **2016**, 41, 9059-9065	6.7	25
194	Improve electrical conductivity of reduced La2Ni0.9Fe0.1O4+□as the anode of a solid oxide fuel cell by carbon deposition. *International Journal of Hydrogen Energy*, **2015**, 40, 9783-9789	6.7	24
193	Standardized Procedures Important for Improving Single-Component Ceramic Fuel Cell Technology. *ACS Energy Letters*, **2017**, 2, 2752-2755	20.1	24
192	Sequential simulation of dense oxygen permeation membrane reactor for hydrogen production from oxidative steam reforming of ethanol with ASPEN PLUS. *International Journal of Hydrogen Energy*, **2010**, 35, 6691-6698	6.7	24
191	What causes the carbon nanotubes collapse in a chemical vapor deposition process. *Journal of Chemical Physics*, **2003**, 118, 878-882	3.9	24

190	Ethanolysis of Kraft Lignin over a Reduction-Modified MoO3 Catalyst. *Industrial & Engineering Chemistry Research*, **2017**, 56, 14025-14033	3.9	23
189	Effect of Alkaline Treatment on the Catalytic Performance of ZSM-5 Catalyst in Pyridine and Picolines Synthesis. *Industrial & Engineering Chemistry Research*, **2009**, 48, 1873-1879	3.9	23
188	Effect of Magnesium Substitution into LaMnAl11O19 Hexaaluminate on the Activity of Methane Catalytic Combustion. *Industrial & Engineering Chemistry Research*, **2008**, 47, 1404-1408	3.9	23
187	A conductive ZnO:Ga/ZnO core-shell nanorod photoanode for photoelectrochemical water splitting. *International Journal of Hydrogen Energy*, **2016**, 41, 14596-14604	6.7	23
186	Enhancing the performance of an all-organic non-aqueous redox flow battery. *Journal of Power Sources*, **2019**, 443, 227283	8.9	22
185	High efficiency chemical energy conversion system based on a methane catalytic decomposition reaction and two fuel cells: Part I. Process modeling and validation. *Journal of Power Sources*, **2010**, 195, 6539-6548	8.9	22
184	Synthesis of pyridine and picolines over Co-modified HZSM-5 catalyst. *Chemical Engineering Journal*, **2008**, 136, 282-287	14.7	22
183	Tailoring the pore size of zeolite Y as the support of diesel aromatic saturation catalyst. *Journal of Porous Materials*, **2006**, 13, 365-371	2.4	22
182	Attrition of catalyst particles in a laboratory-scale fluidized-bed reactor. *Chemical Engineering Science*, **2015**, 135, 431-440	4.4	21
181	N2O formation in the selective catalytic reduction of NOx with NH3 on a CeMoOx catalyst. *Applied Catalysis A: General*, **2015**, 505, 8-15	5.1	21
180	Catalytic Hydrothermal Liquefaction of a Microalga in a Two-Chamber Reactor. *Industrial & Engineering Chemistry Research*, **2014**, 53, 11939-11944	3.9	21
179	Effect of Acid Treatment on the High-Temperature Surface Oxidation Behavior of FeCrAlloy Foil Used for Methane Combustion Catalyst Support. *Industrial & Engineering Chemistry Research*, **2009**, 48, 5117-5122	3.9	21
178	A novel study of sulfur-resistance for CO2 separation through asymmetric ceramic-carbonate dual-phase membrane at high temperature. *Journal of Membrane Science*, **2019**, 581, 72-81	9.6	20
177	Enhanced efficiency of hematite photoanode for water splitting with the doping of Ge. *International Journal of Hydrogen Energy*, **2018**, 43, 12646-12652	6.7	20
176	Water assisted synthesis of double-walled carbon nanotubes with a narrow diameter distribution from methane over a CoMo/MgO catalyst. *Catalysis Today*, **2012**, 183, 26-33	5.3	20
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8	Solid oxide fuel cell with a spin-coated yttria stabilized zirconia/gadolinia doped ceria bi-layer electrolyte.. *RSC Advances*, **2022**, 12, 13220-13227	3.7	1
7	Linear discharge model, power losses and overall efficiency of the solid oxide fuel cell with thin film samarium doped ceria electrolyte. Part I: Linear discharge model. *International Journal of Hydrogen Energy*, **2017**, 42, 17528-17535	6.7	0
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2	Porous poly(vinylidene fluoride) (PVDF) membrane with 2D vermiculite nanosheets modification for non-aqueous redox flow batteries. *Journal of Membrane Science*, **2022**, 651, 120468	9.6	0
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