Sibudjing Kawi

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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.

 208
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#	Paper	IF	Citations
208	YolkBatelliteBhell Structured NiBolk@Ni@SiO2 Nanocomposite: Superb Catalyst toward Methane CO2 Reforming Reaction. <i>ACS Catalysis</i> , 2014 , 4, 1526-1536	13.1	344
207	Activated carbon derived from carbon residue from biomass gasification and its application for dye adsorption: Kinetics, isotherms and thermodynamic studies. <i>Bioresource Technology</i> , 2016 , 200, 350-9	11	342
206	Promotional effect of alkaline earth over Ni🏻a2O3 catalyst for CO2 reforming of CH4: Role of surface oxygen species on H2 production and carbon suppression. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 14435-14446	6.7	330
205	A Review on Bimetallic Nickel-Based Catalysts for CO Reforming of Methane. <i>ChemPhysChem</i> , 2017 , 18, 3117-3134	3.2	264
204	Progress in Synthesis of Highly Active and Stable Nickel-Based Catalysts for Carbon Dioxide Reforming of Methane. <i>ChemSusChem</i> , 2015 , 8, 3556-75	8.3	261
203	Silicalleria sandwiched Ni corelihell catalyst for low temperature dry reforming of biogas: Coke resistance and mechanistic insights. <i>Applied Catalysis B: Environmental</i> , 2018 , 230, 220-236	21.8	236
202	CO2 dry-reforming of methane over La0.8Sr0.2Ni0.8M0.2O3 perovskite (M⊞Bi, Co, Cr, Cu, Fe): Roles of lattice oxygen on Cℍ activation and carbon suppression. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 11195-11207	6.7	219
201	Bimetallic Nillu catalyst supported on CeO2 for high-temperature watergas shift reaction: Methane suppression via enhanced CO adsorption. <i>Journal of Catalysis</i> , 2014 , 314, 32-46	7.3	218
200	Kinetic and mechanistic aspects for CO2 reforming of methane over Ni based catalysts. <i>Chemical Engineering Journal</i> , 2015 , 278, 62-78	14.7	206
199	Nickellron Alloy Supported over IronAlumina Catalysts for Steam Reforming of Biomass Tar Model Compound. <i>ACS Catalysis</i> , 2014 , 4, 289-301	13.1	203
198	Core-shell structured catalysts for thermocatalytic, photocatalytic, and electrocatalytic conversion of CO. <i>Chemical Society Reviews</i> , 2020 , 49, 2937-3004	58.5	201
197	Design of highly stable and selective core/yolk@hell nanocatalysts& review. <i>Applied Catalysis B: Environmental</i> , 2016 , 188, 324-341	21.8	196
196	High-Performance Thermally Self-Cross-Linked Polymer of Intrinsic Microporosity (PIM-1) Membranes for Energy Development. <i>Macromolecules</i> , 2012 , 45, 1427-1437	5.5	186
195	Steam reforming of toluene as a biomass tar model compound over CeO2 promoted Ni/CaOAl2O3 catalytic systems. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 13938-13949	6.7	182
194	Enhanced activity of CO2 methanation over Ni/CeO2-ZrO2 catalysts: Influence of preparation methods. <i>Catalysis Today</i> , 2017 , 281, 304-311	5.3	180
193	Inverse NiAl2O4 on LaAlO3Al2O3: Unique Catalytic Structure for Stable CO2 Reforming of Methane. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 8120-8130	3.8	146
192	Highly carbon resistant multicore-shell catalyst derived from Ni-Mg phyllosilicate nanotubes@silica for dry reforming of methane. <i>Applied Catalysis B: Environmental</i> , 2016 , 195, 1-8	21.8	138

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191	A highly dispersed and anti-coking Nila2O3/SiO2 catalyst for syngas production from dry carbon dioxide reforming of methane. <i>Catalysis Science and Technology</i> , 2014 , 4, 2107	5.5	131
190	Highly carbon-resistant Nito/SiO2 catalysts derived from phyllosilicates for dry reforming of methane. <i>Journal of CO2 Utilization</i> , 2017 , 18, 345-352	7.6	129
189	Bi-functional hydrotalcite-derived NiOtaOAl2O3 catalysts for steam reforming of biomass and/or tar model compound at low steam-to-carbon conditions. <i>Applied Catalysis B: Environmental</i> , 2015 , 172-173, 116-128	21.8	129
188	Simultaneous tuning porosity and basicity of nickel@nickel-magnesium phyllosilicate core-shell catalysts for COIreforming of CHII <i>Langmuir</i> , 2014 , 30, 14694-705	4	124
187	Promotional effect of Fe on perovskite LaNixFe1NO3 catalyst for hydrogen production via steam reforming of toluene. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 5525-5534	6.7	120
186	CO2 reforming of methane over highly active La-promoted Ni supported on SBA-15 catalysts: mechanism and kinetic modelling. <i>Catalysis Science and Technology</i> , 2016 , 6, 1173-1186	5.5	114
185	Highly Active Ni/xNa/CeO2 Catalyst for the Water is Shift Reaction: Effect of Sodium on Methane Suppression. <i>ACS Catalysis</i> , 2014 , 4, 3237-3248	13.1	113
184	Perovskite LaxM1Ni0.8Fe0.2O3 catalyst for steam reforming of toluene: Crucial role of alkaline earth metal at low steam condition. <i>Applied Catalysis B: Environmental</i> , 2014 , 148-149, 231-242	21.8	109
183	An active and stable CaOLeO2 catalyst for transesterification of oil to biodiesel. <i>Green Chemistry</i> , 2011 , 13, 3423	10	108
182	Carbon deposition on borated alumina supported nano-sized Ni catalysts for dry reforming of CH4. <i>Nano Energy</i> , 2012 , 1, 674-686	17.1	104
181	A crucial role of surface oxygen mobility on nanocrystalline Y2O3 support for oxidative steam reforming of ethanol to hydrogen over Ni/Y2O3 catalysts. <i>Applied Catalysis B: Environmental</i> , 2008 , 81, 303-312	21.8	102
180	Silica-based micro- and mesoporous catalysts for dry reforming of methane. <i>Catalysis Science and Technology</i> , 2018 , 8, 2763-2778	5.5	96
179	Highly reactive Ni-Co/SiO2 bimetallic catalyst via complexation with oleylamine/oleic acid organic pair for dry reforming of methane. <i>Catalysis Today</i> , 2017 , 281, 250-258	5.3	94
178	Reforming of tar from biomass gasification in a hybrid catalysis-plasma system: A review. <i>Applied Catalysis B: Environmental</i> , 2019 , 250, 250-272	21.8	89
177	Facile Synthesis of High Surface Area YolkBhell Ni@Ni Embedded SiO2 via Ni Phyllosilicate with Enhanced Performance for CO2 Reforming of CH4. <i>ChemCatChem</i> , 2015 , 7, 160-168	5.2	88
176	Solubility of Aspirin in Supercritical Carbon Dioxide with and without Acetone. <i>Journal of Chemical & Engineering Data</i> , 2004 , 49, 1323-1327	2.8	88
175	High performance of Mg[la mixed oxides supported Ni catalysts for dry reforming of methane: The effect of crystal structure. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 13631-13642	6.7	87
174	High carbon resistant Ni@Ni phyllosilicate@SiO2 core shell hollow sphere catalysts for low temperature CH4 dry reforming. <i>Journal of CO2 Utilization</i> , 2018 , 27, 238-246	7.6	84

173	Ni-phyllosilicate structure derived NiBiO2MgO catalysts for bi-reforming applications: acidity, basicity and thermal stability. <i>Catalysis Science and Technology</i> , 2018 , 8, 1730-1742	5.5	81
172	Chemical looping gasification of biomass with Fe2O3/CaO as the oxygen carrier for hydrogen-enriched syngas production. <i>Chemical Engineering Journal</i> , 2020 , 379, 122346	14.7	81
171	Ni and/or Ni©u alloys supported over SiO2 catalysts synthesized via phyllosilicate structures for steam reforming of biomass tar reaction. <i>Catalysis Science and Technology</i> , 2015 , 5, 4398-4409	5.5	78
170	A review of recent catalyst advances in CO2 methanation processes. <i>Catalysis Today</i> , 2020 , 356, 471-48	9 _{5.3}	77
169	Sandwich-Like Silica@Ni@Silica MulticoreBhell Catalyst for the Low-Temperature Dry Reforming of Methane: Confinement Effect Against Carbon Formation. <i>ChemCatChem</i> , 2018 , 10, 320-328	5.2	77
168	Role of catalyst support over PdONiO catalysts on catalyst activity and stability for oxy-CO2 reforming of methane. <i>Applied Catalysis A: General</i> , 2011 , 402, 176-187	5.1	75
167	LaNiO3 perovskite catalyst precursor for rapid decomposition of methane: Influence of temperature and presence of H2 in feed stream. <i>Catalysis Today</i> , 2011 , 171, 24-35	5.3	73
166	NiCo@NiCo phyllosilicate@CeO2 hollow core shell catalysts for steam reforming of toluene as biomass tar model compound. <i>Energy Conversion and Management</i> , 2019 , 180, 822-830	10.6	71
165	Recent progress in the development of catalysts for steam reforming of biomass tar model reaction. <i>Fuel Processing Technology</i> , 2020 , 199, 106252	7.2	70
164	High-temperature watergas shift reaction over Ni/xK/CeO2 catalysts: Suppression of methanation via formation of bridging carbonyls. <i>Journal of Catalysis</i> , 2015 , 329, 130-143	7.3	68
163	Enhanced performance and selectivity of CO2 methanation over g-C3N4 assisted synthesis of Ni CeO2 catalyst: Kinetics and DRIFTS studies. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 15191-1	5274	67
162	Steam reforming of biomass tar model compound at relatively low steam-to-carbon condition over CaO-doped nickellion alloy supported over iron lumina catalysts. <i>Applied Catalysis A: General</i> , 2015 , 490, 24-35	5.1	66
161	Morphology dependence of catalytic properties of Ni/CeO2 for CO2 methanation: A kinetic and mechanism study. <i>Catalysis Today</i> , 2020 , 347, 31-38	5.3	64
160	Mechanism and kinetic modeling for steam reforming of toluene on La0.8Sr0.2Ni0.8Fe0.2O3 catalyst. <i>AICHE Journal</i> , 2014 , 60, 4190-4198	3.6	63
159	Sintering and Coke Resistant Core/Yolk Shell Catalyst for Hydrocarbon Reforming. <i>ChemCatChem</i> , 2019 , 11, 202-224	5.2	62
158	Simultaneous syngas and biochar production during heavy metal separation from Cd/Zn hyperaccumulator (Sedum alfredii) by gasification. <i>Chemical Engineering Journal</i> , 2018 , 347, 543-551	14.7	59
157	Ultra-thin (. Journal of Membrane Science, 2014 , 452, 127-142	9.6	58
156	Simple Hydrothermal Synthesis of Nanostructured and Nanorod ZnAl Complex Oxides as Novel Nanocatalysts. <i>Advanced Materials</i> , 2004 , 16, 541-545	24	58

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Enhanced performance and selectivity of CO2 methanation over phyllosilicate structure derived Ni-Mg/SBA-15 catalysts. <i>Applied Catalysis B: Environmental</i> , 2021 , 282, 119564	21.8	58	
Oxidative CO2 reforming of methane in La0.6Sr0.4Co0.8Ga0.2O3-I(LSCG) hollow fiber membrane reactor. <i>Environmental Science & amp; Technology</i> , 2013 , 47, 14510-7	10.3	57	
Bimetallic Nitu alloy nanoparticles supported on silica for the water-gas shift reaction: activating surface hydroxyls via enhanced CO adsorption. <i>Catalysis Science and Technology</i> , 2016 , 6, 3394-3409	5.5	56	
Promotion of the Water-Gas-Shift Reaction by Nickel Hydroxyl Species in Partially Reduced Nickel-Containing Phyllosilicate Catalysts. <i>ChemCatChem</i> , 2016 , 8, 1308-1318	5.2	55	
La0.6Sr0.4Co0.8Ni0.2O3Ihollow fiber membrane reactor: Integrated oxygen separation ICO2 reforming of methane reaction for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 4483-4491	6.7	55	
Hydrogen generation from chemical looping reforming of glycerol by Ce-doped nickel phyllosilicate nanotube oxygen carriers. <i>Fuel</i> , 2018 , 222, 185-192	7.1	55	
Sintering resistant Ni nanoparticles exclusively confined within SiO2 nanotubes for CH4 dry reforming. <i>Catalysis Science and Technology</i> , 2018 , 8, 3363-3371	5.5	55	
Nickel-based Catalysts for High-temperature Water Gas Shift Reaction-Methane Suppression. <i>ChemCatChem</i> , 2018 , 10, 3927-3942	5.2	55	
Preparation, characterization and catalytic application of phyllosilicate: A review. <i>Catalysis Today</i> , 2020 , 339, 3-23	5.3	54	
Ultra thin Pd membrane on #Al2O3 hollow fiber by electroless plating: High permeance and selectivity. <i>Journal of Membrane Science</i> , 2006 , 284, 110-119	9.6	53	
Multi-Ni@Ni phyllosilicate hollow sphere for CO2 reforming of CH4: influence of Ni precursors on structure, sintering, and carbon resistance. <i>Catalysis Science and Technology</i> , 2018 , 8, 1915-1922	5.5	52	
Facile synthesis of Ni/SiO 2 catalyst by sequential hydrogen/air treatment: A superior anti-coking catalyst for dry reforming of methane. <i>Journal of CO2 Utilization</i> , 2016 , 15, 146-153	7.6	52	
Facile Synthesis of Multi-Ni-Core@Ni Phyllosilicate@CeO2 Shell Hollow Spheres with High Oxygen Vacancy Concentration for Dry Reforming of CH4. <i>ChemCatChem</i> , 2018 , 10, 2994-3001	5.2	52	
Investigation on Hydrodynamics of Triple-Bed Combined Circulating Fluidized Bed Using Electrostatic Sensor and Electrical Capacitance Tomography. <i>Industrial & Description of Chemistry Research</i> , 2013 , 52, 11198-11207	3.9	51	
CO2 gasification of woody biomass: Experimental study from a lab-scale reactor to a small-scale autothermal gasifier. <i>Energy</i> , 2019 , 170, 497-506	7.9	50	
Ni/SiO2 catalyst prepared via Ni-aliphatic amine complexation for dry reforming of methane: Effect of carbon chain number and amine concentration. <i>Applied Catalysis A: General</i> , 2015 , 503, 34-42	5.1	49	
Synthesis and evaluation of highly dispersed SBA-15 supported Nife bimetallic catalysts for steam reforming of biomass derived tar reaction. <i>Catalysis Science and Technology</i> , 2016 , 6, 4327-4336	5.5	48	
High performance oxygen permeable membranes with Nb-doped BaBi0.05Co0.95O3[perovskite oxides. <i>Journal of Membrane Science</i> , 2013 , 431, 180-186	9.6	47	
	Ni-Mg/SBA-15 catalysts. Applied Catalysis B: Environmental, 2021, 282, 119564 Oxidative CO2 reforming of methane in La0.65r0.4Co0.8Ga0.2O3-I(LSCG) hollow fiber membrane reactor. Environmental Science & Damp; Technology, 2013, 47, 14510-7 Bimetallic Niūu alloy nanoparticles supported on silica for the water-gas shift reaction: activating surface hydroxyls via enhanced CO adsorption. Catalysis Science and Technology, 2016, 6, 3394-3409 Promotion of the Water-Gas-Shift Reaction by Nickel Hydroxyl Species in Partially Reduced Nickel-Containing Phyllosilicate Catalysts. ChemCatChem, 2016, 8, 1308-1318 La0.6Sr0.4Co0.8Ni0.2O3[hollow fiber membrane reactor: Integrated oxygen separation ICO2 reforming of methane reaction for hydrogen production. International Journal of Hydrogen Energy, 2013, 38, 4483-4491 Hydrogen generation from chemical looping reforming of glycerol by Ce-doped nickel phyllosilicate nanotube oxygen carriers. Fuel, 2018, 222, 185-192 Sintering resistant Ni nanoparticles exclusively confined within SiO2 nanotubes for CH4 dry reforming. Catalysis Science and Technology, 2018, 8, 3363-3371 Nickel-based Catalysts for High-temperature Water Gas Shift Reaction-Methane Suppression. ChemCatChem, 2018, 10, 3927-3942 Preparation, characterization and catalytic application of phyllosilicate: A review. Catalysis Today, 2020, 339, 3-23 Ultra thin Pd membrane on HAI2O3 hollow fiber by electroless plating: High permeance and selectivity. Journal of Membrane Science, 2006, 284, 110-119 Multi-Ni@Ni phyllosilicate hollow sphere for CO2 reforming of CH4: influence of Ni precursors on structure, sintering, and carbon resistance. Catalysis Science and Technology, 2018, 8, 1915-1922 Facile synthesis of Multi-Ni-Core@Ni Phyllosilicate@CeO2 Shell Hollow Spheres with High Oxygen Vacancy Concentration for Dry Reforming of CH4. ChemCatChem, 2018, 10, 2994-3001 Investigation on Hydrodynamics of Triple-Bed Combined Circulating Fluidized Bed Using Electrostatic Sensor and Electrical Capacitance Tomography. Industrial &	Ni-Mg/SBA-15 catalysts. Applied Catalysis B: Environmental, 2021, 282, 119564 Oxidative CO2 reforming of methane in La0.6Sr0.4Co0.8Ga0.2O3-(ILSCG) hollow fiber membrane reactor. Environmental Science & Samp. Technology, 2013, 47, 14510-7 Bimetallic NiTu alloy nanoparticles supported on silica for the water-gas shift reaction: activating surface hydroxyls via enhanced CO adsorption. Catalysis Science and Technology, 2016, 6, 3394-3409 Promotion of the Water-Gas-Shift Reaction by Nickel Hydroxyl Species in Partially Reduced Nickel-Containing Phyllosilicate Catalysts. Chemcatchem, 2016, 8, 1308-1318 La0.6Sr0.4Co0.8Ni0.2O3lhollow fiber membrane reactor: Integrated oxygen separation (EO2 reforming of methane reaction for hydrogen production. 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Catalysis Science and Technology, 2018, 8, 1915-1922 Facile Synthesis of Ni/SiO 2 catalyst by sequential hydrogen/air treatment: A superior anti-coking catalyst for dry reforming of methane. Journal of CO2 Utilization, 2016, 15, 146-153 7.6 Facile Synthesis of Multi-Ni-Core@Ni Phyllosilicate@CeO2 Shell Hollow Spheres with High Oxygen Vacancy Concentration for Dry Reforming of CH4. Ch	Ni-Mg/SBA-15 catalysts. Applied Catalysis B: Environmental, 2021, 282, 119564 Oxidative CO2 reforming of methane in La0 65r0.4Co0.8Ga0.2O3-ILSCG) hollow fiber membrane reactor. Environmental Science & Jamp: Technology, 2013, 47, 14510-7 Bimetallic NiIIu alloy annoparticles supported on silica for the water-gas shift reaction: activating surface hydroxyls via enhanced CO adsorption. Catalysis Science and Technology, 2016, 6, 3394-3409 Promotion of the Water-Gas-Shift Reaction by Nickel Hydroxyl Species in Partially Reduced Nickel-Containing Phyllosilicate Catalysiss. Chem. 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137	Oxygen permeation and stability study of La0.6Sr0.4Co0.8Ga0.2O3I(LSCG) hollow fiber membrane with exposure to CO2, CH4 and He. <i>Journal of Membrane Science</i> , 2013 , 427, 240-249	9.6	47
136	High-temperature water gas shift reaction on Nitu/CeO2 catalysts: effect of ceria nanocrystal size on carboxylate formation. <i>Catalysis Science and Technology</i> , 2016 , 6, 5336-5349	5.5	47
135	Highly active and coke resistant Ni/SiO 2 catalysts for oxidative reforming of model biogas: Effect of low ceria loading. <i>Journal of CO2 Utilization</i> , 2017 , 19, 284-295	7.6	46
134	PdNi catalyst over spherical nanostructured Y2O3 support for oxy-CO2 reforming of methane: Role of surface oxygen mobility. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 12227-12238	6.7	46
133	Z-scheme transition metal bridge of Co9S8/Cd/CdS tubular heterostructure for enhanced photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2021 , 286, 119853	21.8	46
132	Low temperature partial oxidation of methane via BaBi 0.05 Co 0.8 Nb 0.15 O 3HNi phyllosilicate catalytic hollow fiber membrane reactor. <i>Chemical Engineering Journal</i> , 2017 , 315, 315-323	14.7	45
131	K-doped LaNiO3 perovskite for high-temperature water-gas shift of reformate gas: Role of potassium on suppressing methanation. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 9840-9857	6.7	45
130	Recent advances in process and catalyst for CO2 reforming of methane. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 134, 110312	16.2	45
129	Role of lattice oxygen in oxidative steam reforming of toluene as a tar model compound over Ni/La0.8Sr0.2AlO3 catalyst. <i>Catalysis Science and Technology</i> , 2015 , 5, 3585-3597	5.5	44
128	A review on perovskite catalysts for reforming of methane to hydrogen production. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 134, 110291	16.2	44
127	Oxidative steam reforming of biomass tar model compound via catalytic BaBi0.05Co0.8Nb0.15O3Ihollow fiber membrane reactor. <i>Journal of Membrane Science</i> , 2016 , 510, 417-425	9.6	44
126	Catalytic Pd0.77Ag0.23 alloy membrane reactor for high temperature water-gas shift reaction: Methane suppression. <i>Chemical Engineering Journal</i> , 2019 , 362, 116-125	14.7	44
125	Anti-Coking Ni/SiO2 Catalyst for Dry Reforming of Methane: Role of Oleylamine/Oleic Acid Organic Pair. <i>ChemCatChem</i> , 2015 , 7, 4188-4196	5.2	43
124	Co-production of hydrogen and carbon nanofibers from catalytic decomposition of methane over LaNi(1☑)Mx O3⊕erovskite (where Mଢ଼ાCo, Fe and Xଢ଼0, 0.2, 0.5, 0.8, 1). <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 13399-13411	6.7	43
123	An in situ self-assembled corellhell precursor route to prepare ultrasmall copper nanoparticles on silica catalysts. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7837	13	42
122	Synthesis, characterization and sensing properties of nano-SnO2 supported on SBA-15 as highly sensitive semiconductor gas sensors. <i>Journal of Materials Chemistry</i> , 2009 , 19, 292-298		42
121	Enhancing performance of Ni/La2O3 catalyst by Sr-modification for steam reforming of toluene as model compound of biomass tar. <i>RSC Advances</i> , 2015 , 5, 17834-17842	3.7	41
120	Cobalt-Based Catalyst Supported on Different Morphologies of Alumina for Non-oxidative Propane Dehydrogenation: Effect of Metal Support Interaction and Lewis Acidic Sites. <i>ChemCatChem</i> , 2019 , 11, 4923-4934	5.2	41

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119	Selective catalytic reduction of NO over Co/beta-zeolite: effects of synthesis condition of beta-zeolites, Co precursor, Co loading method and reductant. <i>Applied Catalysis B: Environmental</i> , 2004 , 50, 37-47	21.8	41
118	A highly active and stable Ni-Mg phyllosilicate nanotubular catalyst for ultrahigh temperature water-gas shift reaction. <i>Chemical Communications</i> , 2015 , 51, 16324-6	5.8	40
117	Recent progress on layered double hydroxide (LDH) derived metal-based catalysts for CO2 conversion to valuable chemicals. <i>Catalysis Today</i> , 2020 , 356, 490-513	5.3	40
116	Recent developments in sulphur-resilient catalytic systems for syngas production. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 100, 52-70	16.2	40
115	Ultra-high oxygen permeable BaBiCoNb hollow fiber membranes and their stability under pure CH4 atmosphere. <i>Journal of Membrane Science</i> , 2014 , 465, 151-158	9.6	39
114	Steam reforming of ethanol to H2 over Rh/Y2O3: crucial roles of Y2O3 oxidizing ability, space velocity, and H2/C. <i>Energy and Environmental Science</i> , 2010 , 3, 334	35.4	39
113	Low temperature catalytic reverse water-gas shift reaction over perovskite catalysts in DBD plasma. <i>Applied Catalysis B: Environmental</i> , 2020 , 265, 118573	21.8	38
112	ZeoliteBupported nickel phyllosilicate catalyst for CO hydrogenolysis of cyclic ethers and polyols. <i>Applied Catalysis B: Environmental</i> , 2018 , 235, 130-142	21.8	37
111	Conversion of CO2 to C1 chemicals: Catalyst design, kinetics and mechanism aspects of the reactions. <i>Catalysis Today</i> , 2020 , 358, 3-29	5.3	37
110	Coupling CO2 separation with catalytic reverse water-gas shift reaction via ceramic-carbonate dual-phase membrane reactor. <i>Chemical Engineering Journal</i> , 2020 , 379, 122182	14.7	36
109	A Minireview on Nickel-Based Heterogeneous Electrocatalysts for Water Splitting. <i>ChemCatChem</i> , 2019 , 11, 5913-5928	5.2	35
108	Catalytic Biomass Gasification to Syngas Over Highly Dispersed Lanthanum-Doped Nickel on SBA-15. <i>ChemCatChem</i> , 2015 , 7, 3376-3385	5.2	35
107	Permittivity and chemical characterization of woody biomass during pyrolysis and gasification. <i>Chemical Engineering Journal</i> , 2019 , 355, 255-268	14.7	35
106	Influence of Calcination Temperature on Activity and Selectivity of NiteO2 and Nite0.8Zr0.2O2 Catalysts for CO2 Methanation. <i>Topics in Catalysis</i> , 2018 , 61, 1514-1527	2.3	34
105	Triple-layer catalytic hollow fiber membrane reactor for hydrogen production. <i>Journal of Membrane Science</i> , 2016 , 514, 1-14	9.6	33
104	Incinerator bottom ash derived from municipal solid waste as a potential catalytic support for biomass tar reforming. <i>Waste Management</i> , 2018 , 82, 249-257	8.6	33
103	High oxygen permeable and CO2-tolerant SrCoxFe0.9-xNb0.1O3- $\mathbb{I}(x = 0.1\overline{D}.8)$ perovskite membranes: Behavior and mechanism. <i>Separation and Purification Technology</i> , 2018 , 201, 30-40	8.3	32
102	La0.6Sr0.4Co0.8Ga0.2O3-[(LSCG) hollow fiber membrane reactor: Partial oxidation of methane at medium temperature. <i>AICHE Journal</i> , 2013 , 59, 3874-3885	3.6	32

101	A new asymmetric SrCo0.8Fe0.1Ga0.1O3 perovskite hollow fiber membrane for stable oxygen permeability under reducing condition. <i>Journal of Membrane Science</i> , 2013 , 428, 78-85	9.6	31
100	LaNiO3 as a precursor of Ni/La2O3 for reverse water-gas shift in DBD plasma: Effect of calcination temperature. <i>Energy Conversion and Management</i> , 2020 , 206, 112475	10.6	31
99	Role of lattice oxygen in methane activation on Ni-phyllosilicate@Ce1-xZrxO2 core-shell catalyst for methane dry reforming: Zr doping effect, mechanism, and kinetic study. <i>Applied Catalysis B: Environmental</i> , 2021 , 290, 119998	21.8	30
98	Lewis Acid Sites Stabilized Nickel Catalysts for Dry (CO2) Reforming of Methane. <i>ChemCatChem</i> , 2016 , 8, 3732-3739	5.2	29
97	High-performance catalytic perovskite hollow fiber membrane reactor for oxidative propane dehydrogenation. <i>Journal of Membrane Science</i> , 2019 , 578, 36-42	9.6	29
96	Ultra-thin (~1 fh) Pdfu membrane reactor for coupling CO2 hydrogenation and propane dehydrogenation applications. <i>Journal of Membrane Science</i> , 2020 , 595, 117496	9.6	29
95	Highly Active and Stable Bimetallic Nickellopper Corelleria Shell Catalyst for High-Temperature Waterlas Shift Reaction. <i>ChemCatChem</i> , 2015 , 7, 3358-3367	5.2	28
94	Synthesis, Growth Mechanism, and Properties of Open-Hexagonal and Nanoporous-Wall Ceria Nanotubes Fabricated via Alkaline Hydrothermal Route. <i>Crystal Growth and Design</i> , 2010 , 10, 1833-1841	3.5	28
93	Catalytic steam reforming of in-situ tar from rice husk over MCM-41 supported LaNiO3 to produce hydrogen rich syngas. <i>Renewable Energy</i> , 2020 , 161, 408-418	8.1	28
92	Dry reforming of methane on Ni/mesoporous-Al2O3 catalysts: Effect of calcination temperature. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 31041-31053	6.7	28
91	Rh/Ce-SBA-15: Active and stable catalyst for CO2 reforming of ethanol to hydrogen. <i>Catalysis Today</i> , 2009 , 148, 251-259	5.3	27
90	High catalytic stability of Pd-Ni/Y2O3 formed by interfacial Cl for oxy-CO2 reforming of CH4. <i>Catalysis Today</i> , 2017 , 281, 276-294	5.3	26
89	High CO2 permeability of ceramic-carbonate dual-phase hollow fiber membrane at medium-high temperature. <i>Journal of Membrane Science</i> , 2020 , 597, 117770	9.6	26
88	Double redox process to synthesize CuO-CeO catalysts with strong Cu-Ce interaction for efficient toluene oxidation. <i>Journal of Hazardous Materials</i> , 2021 , 404, 124088	12.8	26
87	Chemical looping glycerol reforming for hydrogen production by Ni@ZrO2 nanocomposite oxygen carriers. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 13200-13211	6.7	26
86	CO2 as an Oxidant for High-Temperature Reactions. Frontiers in Energy Research, 2015, 3,	3.8	25
85	Zrte-incorporated Ni/SBA-15 catalyst for high-temperature water gas shift reaction: Methane suppression by incorporated Zr and Ce. <i>Journal of Catalysis</i> , 2020 , 387, 47-61	7.3	25
84	Bifunctional Ni-Ca based material for integrated CO2 capture and conversion via calcium-looping dry reforming. <i>Applied Catalysis B: Environmental</i> , 2021 , 284, 119734	21.8	25

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83	Promoting effect of Ge on Pt-based catalysts for dehydrogenation of propane to propylene. <i>Applied Catalysis A: General</i> , 2019 , 588, 117266	5.1	24	
82	Conversion of Coal Fly Ash into Zeolite Materials: Synthesis and Characterizations, Process Design, and Its Cost-Benefit Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 11565-11574	3.9	24	
81	Effect of tin precursors and crystallization temperatures on the synthesis of SBA-15 with high levels of tetrahedral tin. <i>Journal of Materials Chemistry</i> , 2007 , 17, 3610		24	
80	Effect of Partial Fe Substitution in La0.9Sr0.1NiO3 Perovskite-Derived Catalysts on the Reaction Mechanism of Methane Dry Reforming. <i>ACS Catalysis</i> , 2020 , 10, 12466-12486	13.1	24	
79	Sulfur resistant LaxCe1Ni0.5Cu0.5O3 catalysts for an ultra-high temperature water gas shift reaction. <i>Catalysis Science and Technology</i> , 2016 , 6, 6569-6580	5.5	24	
78	Re-evaluation of La0.6Sr0.4Co0.2Fe0.8O3-Ihollow fiber membranes for oxygen separation after long-term storage of five and ten years. <i>Journal of Membrane Science</i> , 2019 , 587, 117180	9.6	23	
77	High Purity Oxygen Production via BBCN Perovskite Hollow Fiber Membrane Swept by Steam. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 6371-6377	3.9	23	
76	Highly Dispersed Ni/Silica by Carbonization acliention of a Chelated Precursor for Coke-Free Dry Reforming of Methane. <i>ACS Applied Energy Materials</i> , 2020 , 3, 7719-7735	6.1	22	
75	Single-Pot Conversion of Tetrahydrofurfuryl Alcohol into Tetrahydropyran over a Ni/HZSM-5 Catalyst under Aqueous-Phase Conditions. <i>ChemCatChem</i> , 2017 , 9, 1402-1408	5.2	21	
74	Enhanced selectivity and stability of Pt-Ge/Al2O3 catalysts by Ca promotion in propane dehydrogenation. <i>Chemical Engineering Journal</i> , 2021 , 405, 126656	14.7	21	
73	A novel study of sulfur-resistance for CO2 separation through asymmetric ceramic-carbonate dual-phase membrane at high temperature. <i>Journal of Membrane Science</i> , 2019 , 581, 72-81	9.6	20	
72	Catalytic mixed conducting ceramic membrane reactors for methane conversion. <i>Reaction Chemistry and Engineering</i> , 2020 , 5, 1868-1891	4.9	20	
71	Highly dispersed supported metal catalysts prepared via in-situ self-assembled core-shell precursor route. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 13388-13398	6.7	19	
70	Preparation of highly dispersed Cu/SiO2 doped with CeO2 and its application for high temperature water gas shift reaction. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 15891-15897	6.7	19	
69	Highly Efficient NO Decomposition via Dual-Functional Catalytic Perovskite Hollow Fiber Membrane Reactor Coupled with Partial Oxidation of Methane at Medium-Low Temperature. <i>Environmental Science & Environmental Science &</i>	10.3	19	
68	Highly Active and Selective Nanoalumina-Supported Wilkinson Catalysts for Hydroformylation of Styrene. <i>Industrial & Discours amp; Engineering Chemistry Research</i> , 2009 , 48, 1824-1830	3.9	18	
67	Naphthalene Oxidation over 1%Pt and 5%Co/EAl2O3 Catalysts: Reaction Intermediates and Possible Pathways. <i>Catalysis Letters</i> , 2004 , 96, 87-96	2.8	18	
66	Interfacial synergistic catalysis over Ni nanoparticles encapsulated in mesoporous ceria for CO2 methanation. <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120454	21.8	18	

65	High H2 permeable SAPO-34 hollow fiber membrane for high temperature propane dehydrogenation application. <i>AICHE Journal</i> , 2020 , 66, e16278	3.6	18
64	A mini-review on recent developments in SAPO-34 zeolite membranes and membrane reactors. <i>Reaction Chemistry and Engineering</i> , 2021 , 6, 52-66	4.9	17
63	Recent Developments in Dielectric Barrier Discharge Plasma-Assisted Catalytic Dry Reforming of Methane over Ni-Based Catalysts. <i>Catalysts</i> , 2021 , 11, 455	4	15
62	Nanoporous Zeolite-A Sheltered Pd-Hollow Fiber Catalytic Membrane Reactor for Propane Dehydrogenation. <i>ACS Applied Nano Materials</i> , 2020 , 3, 6675-6683	5.6	14
61	Chemical looping steam reforming of bio-oil for hydrogen-rich syngas production: Effect of doping on LaNi0.8Fe0.2O3 perovskite. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 21123-21137	6.7	14
60	Lanthanum oxycarbonate modified Cu/Al2O3 catalysts for selective hydrogenolysis of glucose to propylene glycol: base site requirements. <i>Catalysis Science and Technology</i> , 2017 , 7, 4680-4690	5.5	14
59	Water hyacinth for energy and environmental applications: A review. <i>Bioresource Technology</i> , 2021 , 327, 124809	11	14
58	Facile Dynamic Synthesis of Homodispersed Ni3S2 Nanosheets as a High-Efficient Bifunctional Electrocatalyst for Water Splitting. <i>ChemCatChem</i> , 2019 , 11, 1320-1327	5.2	14
57	Mesoporous-Silica-Stabilized Cobalt(II) Oxide Nanoclusters for Propane Dehydrogenation. <i>ACS Applied Nano Materials</i> , 2021 , 4, 1112-1125	5.6	14
56	CD Hydrogenolysis of Tetrahydrofurfuryl Alcohol to 1,5-Pentanediol Over Bi-functional Nickel-Tungsten Catalysts. <i>ChemCatChem</i> , 2018 , 10, 4652-4664	5.2	14
55	H2S-resistant CeO2-NiO-MgO-Al2O3 LDH-derived catalysts for steam reforming of toluene. <i>Fuel Processing Technology</i> , 2021 , 219, 106871	7.2	14
54	Smart Designs of Anti-Coking and Anti-Sintering Ni-Based Catalysts for Dry Reforming of Methane: A Recent Review. <i>Reactions</i> , 2020 , 1, 162-194	1.5	13
53	Recent Progress of CeO2TiO2 Based Catalysts for Selective Catalytic Reduction of NOx by NH3. <i>ChemCatChem</i> , 2021 , 13, 491-505	5.2	13
52	Nitrogen Removal and Energy Recovery from Sewage Sludge by Combined Hydrothermal Pretreatment and CO2 Gasification. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 16629-16636	8.3	13
51	Anti-Coking and Anti-Sintering Ni/Al2O3 Catalysts in the Dry Reforming of Methane: Recent Progress and Prospects. <i>Catalysts</i> , 2021 , 11, 1003	4	13
50	High Temperature Water Permeable Membrane Reactors for CO2 Utilization. <i>Chemical Engineering Journal</i> , 2021 , 420, 129834	14.7	13
49	A comprehensive review of anti-coking, anti-poisoning and anti-sintering catalysts for biomass tar reforming reaction. <i>Chemical Engineering Science: X</i> , 2020 , 7, 100065	1.1	12
48	Hydrogen-free hydrogenation of furfural to furfuryl alcohol and 2-methylfuran over Ni and Co-promoted Cu/EAl2O3 catalysts. <i>Fuel Processing Technology</i> , 2021 , 214, 106721	7.2	11

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47	LDH-derived NiMgOAl2O3 catalysts for hydrogen-rich syngas production via steam reforming of biomass tar model: Effect of catalyst synthesis methods. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 18338-18352	6.7	11
46	Role of the Strong Lewis Base Sites on Glucose Hydrogenolysis. <i>ChemCatChem</i> , 2018 , 10, 3845-3853	5.2	10
45	CFD Simulation of a Hydrogen-Permeable Membrane Reactor for CO2 Reforming of CH4: The Interplay of the Reaction and Hydrogen Permeation. <i>Energy & Description</i> 2020, 34, 12366-12378	4.1	10
44	Catalytic reforming of tar model compound over La1-xSrx-Co0.5Ti0.5O3-dual perovskite catalysts: Resistance to sulfide and chloride compounds. <i>Applied Catalysis A: General</i> , 2021 , 613, 118013	3 ^{5.1}	10
43	Efficient integration of CO2 capture and conversion over a Ni supported CeO2-modified CaO microsphere at moderate temperature. <i>Chemical Engineering Journal</i> , 2021 , 426, 130864	14.7	10
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41	Cu/SiO2 derived from copper phyllosilicate for low-temperature water-gas shift reaction: Role of Cu+ sites. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 27078-27088	6.7	9
40	Active sites adjustable phosphorus promoted CeO2/TiO2 catalysts for selective catalytic reduction of NOx by NH3. <i>Chemical Engineering Journal</i> , 2021 , 409, 128242	14.7	9
39	Glucose hydrogenolysis over Cu-La2O3/Al2O3: Mechanistic insights. <i>Molecular Catalysis</i> , 2019 , 466, 138	-1,45	8
38	Chemical Looping Reforming of Glycerol for Continuous H2 Production by Moving-Bed Reactors: Simulation and Experiment. <i>Energy & Energy</i> 34, 1841-1850	4.1	8
37	Steam reforming of surrogate diesel model over hydrotalcite-derived MO-CaO-Al2O3 (MIEINi & Co) catalysts for SOFC applications. <i>Fuel</i> , 2021 , 291, 120194	7.1	8
36	Recent Advances in Catalyst Technology for Biomass Tar Model Reforming: Thermal, Plasma and Membrane Reactors. <i>Waste and Biomass Valorization</i> ,1	3.2	8
35	Low-temperature biomass tar model reforming over perovskite materials with DBD plasma: Role of surface oxygen mobility. <i>Energy Conversion and Management</i> , 2021 , 248, 114802	10.6	7
34	FeO controls the sintering of iron-based oxygen carriers in chemical looping CO2 conversion. Journal of CO2 Utilization, 2020 , 40, 101216	7.6	7
33	The role of lattice oxygen in CO2 hydrogenation to methanol over La1-xSrxCuO catalysts. <i>Journal of CO2 Utilization</i> , 2021 , 47, 101498	7.6	7
32	Zeolite membrane reactors: from preparation to application in heterogeneous catalytic reactions. <i>Reaction Chemistry and Engineering</i> , 2021 , 6, 401-417	4.9	7
31	Multi-interfacial catalyst with spatially defined redox reactions for enhanced pure water photothermal hydrogen production. <i>EcoMat</i> ,	9.4	6
30	Influence of Surface Formate Species on Methane Selectivity for Carbon Dioxide Methanation over Nickel Hydroxyapatite Catalyst. <i>ChemCatChem</i> , 2020 , 12, 6410-6419	5.2	6

29	CFD modeling of the perovskite hollow fiber membrane modules for oxygen separation. <i>Chemical Engineering Science</i> , 2021 , 230, 116214	4.4	6
28	Steam reforming of toluene as model compound of biomass tar over Nito/La2O3 nano-catalysts: Synergy of Ni and Co. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 30926-30936	6.7	6
27	Emerging Strategies for CO 2 Photoreduction to CH 4: From Experimental to Data-Driven Design. <i>Advanced Energy Materials</i> ,2200389	21.8	6
26	Recent progress in anti-coking Ni catalysts for thermo-catalytic conversion of greenhouse gases. <i>Chemical Engineering Research and Design</i> , 2021 , 156, 598-598	5.5	5
25	CO2 methanation on Ni-Ce0.8M0.2O2 (M=Zr, Sn or Ti) catalyst: Suppression of CO via formation of bridging carbonyls on nickel. <i>Catalysis Today</i> , 2020 ,	5.3	5
24	CO2 hydrogenation to CH4 over hydrothermal prepared ceria-nickel catalysts: Performance and mechanism study. <i>Catalysis Today</i> , 2021 ,	5.3	5
23	A review on roles of pretreatment atmospheres for the preparation of efficient Ni-based catalysts. <i>Catalysis Today</i> , 2021 ,	5.3	5
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21	Coupling CO2 utilization and NO reduction in chemical looping manner by surface carbon. <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120472	21.8	4
20	Recent advances in ZnIn2S4-based materials towards photocatalytic purification, solar fuel production and organic transformations. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 5400-5424	7.1	4
19	Carbonaceous materials as adsorbents for CO2 capture: synthesis and modification. <i>Carbon Capture Science & Technology</i> , 2022 , 3, 100039		4
18	Preface to the ICCDU-2015 Special Issue. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 78	395.7584	13
17	Catalytic CO2 Conversion to Added-Value Energy Rich C1 Products 2019 , 155-210		3
16	Liquid-phase oxidation of cyclohexane using Co-P-MCM-41 catalyst. <i>Korean Journal of Chemical Engineering</i> , 1998 , 15, 510-515	2.8	3
15	Low-cost and facile fabrication of defect-free water permeable membrane for CO2 hydrogenation to methanol. <i>Chemical Engineering Journal</i> , 2021 , 435, 133554	14.7	3
14	Understanding the Effect of Germanium as an Efficient Auxiliary Pre-Dopant in Carbon Nanotubes on Enhancing Oxygen Reduction Reaction. <i>Energy Technology</i> , 2018 , 6, 2387-2393	3.5	2
13	The Production of Straight Carbon Microfibers by the Cracking of Methane over Co-SBA-15 Catalysts. <i>Catalysis Letters</i> , 2007 , 118, 211-218	2.8	2
12	Tetraethylenepentamine-grafted polyacrylonitrile-poly(methyl methacrylate) hollow fibers for low concentration CO2 capture at ambient temperature. <i>Chemical Engineering Research and Design</i> , 2022 , 157, 390-396	5.5	2

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11	Dielectric Barrier Discharge Plasma-Assisted Catalytic CO2 Hydrogenation: Synergy of Catalyst and Plasma. <i>Catalysts</i> , 2022 , 12, 66	4	2
10	Oxygen-Deficient WO3/TiO2/CC Nanorod Arrays for Visible-Light Photocatalytic Degradation of Methylene Blue. <i>Catalysts</i> , 2021 , 11, 1349	4	1
9	Synthesis strategies of carbon nanotube supported and confined catalysts for thermal catalysis. <i>Chemical Engineering Journal</i> , 2022 , 431, 133970	14.7	1
8	Core-Shell Structured Catalysts for Catalytic Conversion of CO2 to Syngas. <i>Nanostructure Science and Technology</i> , 2021 , 121-149	0.9	1
7	A superb water permeable membrane for potential applications in CO2 to liquid fuel process. <i>Journal of Membrane Science</i> , 2021 , 639, 119682	9.6	1
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5	Modification strategies of heterogeneous catalysts for watergas shift reactions. <i>Reaction Chemistry and Engineering</i> ,	4.9	О
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3	Mn-N-C Nanostructure Derived from MnO2-x/PANI as Highly Performing Cathode Additive in Li-S Battery. <i>Reactions</i> , 2021 , 2, 275-286	1.5	
2	Effect of novel Ni2P-loaded catalysts on algal pyrolysis bio-oil. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 151, 111575	16.2	

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