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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.

125 papers	7,810 citations	44 h-index	87 g-index
132 ext. papers	8,719 ext. citations	7.7 avg, IF	6.05 L-index

#	Paper	IF	Citations
125	Progress in Chemical-Looping Combustion and Reforming technologies. <i>Progress in Energy and Combustion Science</i> , 2012 , 38, 215-282	33.6	1554
124	Hydrogen Production From Water Electrolysis: Current Status and Future Trends. <i>Proceedings of the IEEE</i> , 2012 , 100, 410-426	14.3	695
123	Mapping of the range of operational conditions for Cu-, Fe-, and Ni-based oxygen carriers in chemical-looping combustion. <i>Chemical Engineering Science</i> , 2007 , 62, 533-549	4.4	478
122	Recent Advances in the Synthesis and Catalytic Applications of Pillared Clays. <i>Catalysis Reviews - Science and Engineering</i> , 2000 , 42, 145-212	12.6	414
121	Kinetics of redox reactions of ilmenite for chemical-looping combustion. <i>Chemical Engineering Science</i> , 2011 , 66, 689-702	4.4	220
120	Synthesis of biodiesel with heterogeneous NaOH/alumina catalysts: Comparison with homogeneous NaOH. <i>Chemical Engineering Journal</i> , 2007 , 134, 123-130	14.7	219
119	Reduction and oxidation kinetics of nickel-based oxygen-carriers for chemical-looping combustion and chemical-looping reforming. <i>Chemical Engineering Journal</i> , 2012 , 188, 142-154	14.7	142
118	Renewable Hydrogen Production: Performance of an Alkaline Water Electrolyzer Working under Emulated Wind Conditions. <i>Energy & Fuels</i> , 2007 , 21, 1699-1706	4.1	138
117	Alkaline and alkaline-earth metals compounds as catalysts for the methanolysis of sunflower oil. <i>Catalysis Today</i> , 2008 , 133-135, 305-313	5.3	128
116	Methane Combustion in a 500 Wth Chemical-Looping Combustion System Using an Impregnated Ni-Based Oxygen Carrier. <i>Energy & Fuels</i> , 2009 , 23, 130-142	4.1	121
115	Thermal performance of a commercial alkaline water electrolyzer: Experimental study and mathematical modeling. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 7338-7354	6.7	116
114	Fruit and vegetable waste management: Conventional and emerging approaches. <i>Journal of Environmental Management</i> , 2020 , 265, 110510	7.9	102
113	Complete oxidation of acetone over manganese oxide catalysts supported on alumina- and zirconia-pillared clays. <i>Applied Catalysis B: Environmental</i> , 2002 , 38, 295-307	21.8	102
112	NiO/Al ₂ O ₃ oxygen carriers for chemical-looping combustion prepared by impregnation and deposition-precipitation methods. <i>Fuel</i> , 2009 , 88, 1016-1023	7.1	99
111	Influence of the preparation method and the nature of the support on the stability of nickel catalysts. <i>Applied Catalysis A: General</i> , 1994 , 109, 167-179	5.1	99
110	Kinetics of the NaOH-catalyzed transesterification of sunflower oil with ethanol to produce biodiesel. <i>Fuel Processing Technology</i> , 2015 , 129, 147-155	7.2	93
109	Influence of the surface adsorption-desorption processes on the ignition curves of volatile organic compounds (VOCs) complete oxidation over supported catalysts. <i>Applied Catalysis B: Environmental</i> , 2000 , 26, 37-46	21.8	90

108	Fischer-Tropsch synthesis in microchannels. <i>Chemical Engineering Journal</i> , 2011 , 167, 536-544	14.7	83
107	Multiple response optimization of vegetable oils fatty acid composition to improve biodiesel physical properties. <i>Bioresource Technology</i> , 2011 , 102, 7280-8	11	82
106	Heterogenization of the biodiesel synthesis catalysis: CaO and novel calcium compounds as transesterification catalysts. <i>Chemical Engineering Research and Design</i> , 2014 , 92, 1519-1530	5.5	81
105	Iron-modified ceria and Au/ceria catalysts for Total and Preferential Oxidation of CO (TOX and PROX). <i>Catalysis Today</i> , 2010 , 157, 155-159	5.3	77
104	Influence of the power supply on the energy efficiency of an alkaline water electrolyser. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 3221-3233	6.7	74
103	Integration of methanol steam reforming and combustion in a microchannel reactor for H ₂ production: A CFD simulation study. <i>Catalysis Today</i> , 2009 , 143, 25-31	5.3	73
102	Reactivity of a NiO/Al ₂ O ₃ oxygen carrier prepared by impregnation for chemical-looping combustion. <i>Fuel</i> , 2010 , 89, 3399-3409	7.1	73
101	Conversion of a commercial spark ignition engine to run on hydrogen: Performance comparison using hydrogen and gasoline. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 1420-1429	6.7	73
100	Monitoring of biodiesel production: Simultaneous analysis of the transesterification products using size-exclusion chromatography. <i>Chemical Engineering Journal</i> , 2006 , 122, 31-40	14.7	73
99	Methane steam reforming in a microchannel reactor for GTL intensification: A computational fluid dynamics simulation study. <i>Chemical Engineering Journal</i> , 2009 , 154, 168-173	14.7	70
98	Effect of Thermal Treatments on the Properties of Nickel and Cobalt Activated-Charcoal-Supported Catalysts. <i>Journal of Catalysis</i> , 1994 , 145, 276-288	7.3	64
97	Testing of a highly reactive impregnated Fe ₂ O ₃ /Al ₂ O ₃ oxygen carrier for a SR-CLC system in a continuous CLC unit. <i>Fuel Processing Technology</i> , 2012 , 96, 37-47	7.2	59
96	Outstanding performance of rehydrated Mg-Al hydrotalcites as heterogeneous methanolysis catalysts for the synthesis of biodiesel. <i>Fuel</i> , 2018 , 211, 173-181	7.1	58
95	Main factors controlling the texture of zirconia and alumina pillared clays. <i>Microporous and Mesoporous Materials</i> , 2000 , 34, 115-125	5.3	57
94	Synthesis of biodiesel from the methanolysis of sunflower oil using PURAL- Mg-Al hydrotalcites as catalyst precursors. <i>Applied Catalysis B: Environmental</i> , 2010 , 100, 299-309	21.8	56
93	Platinum catalysts supported on Al-pillared clays: Application to the catalytic combustion of acetone and methyl-ethyl-ketone. <i>Catalysis Today</i> , 2001 , 68, 41-51	5.3	56
92	Computational fluid dynamics study of heat transfer in a microchannel reactor for low-temperature Fischer-Tropsch synthesis. <i>Chemical Engineering Journal</i> , 2010 , 160, 915-922	14.7	54
91	Effect of the temperature of calcination on the catalytic performance of manganese- and samarium-manganese-based oxides in the complete oxidation of acetone. <i>Applied Catalysis A: General</i> , 2004 , 274, 229-235	5.1	54

90	Application of a new hydrogenated aluminophosphate oxynitride (ALPON) as a catalytic support for the one-step synthesis of methyl isobutyl ketone from acetone. <i>Applied Catalysis A: General</i> , 1994 , 114, L1-L7	5.1	54
89	Computational fluid dynamics simulation of ethanol steam reforming in catalytic wall microchannels. <i>Chemical Engineering Journal</i> , 2011 , 167, 603-609	14.7	52
88	Highly selective one-step formation of methyl isobutyl ketone from acetone with a magnesia supported nickel catalyst. <i>Applied Catalysis A: General</i> , 1993 , 101, L1-L6	5.1	52
87	Experimental study of the performance and emission characteristics of an adapted commercial four-cylinder spark ignition engine running on hydrogen/ethane mixtures. <i>Applied Energy</i> , 2014 , 113, 1068-1076	10.7	50
86	Preparation and characterization of manganese oxide catalysts supported on alumina and zirconia-pillared clays. <i>Applied Catalysis A: General</i> , 2000 , 196, 281-292	5.1	50
85	Kinetic analysis and microstructured reactors modeling for the Fischer-Tropsch synthesis over a CoRe/Al ₂ O ₃ catalyst. <i>Catalysis Today</i> , 2013 , 215, 103-111	5.3	48
84	Syngas production by means of biogas catalytic partial oxidation and dry reforming using Rh-based catalysts. <i>Catalysis Today</i> , 2018 , 299, 280-288	5.3	47
83	Methyl ethyl ketone combustion over La-transition metal (Cr, Co, Ni, Mn) perovskites. <i>Applied Catalysis B: Environmental</i> , 2009 , 92, 445-453	21.8	45
82	VOCs combustion catalysed by platinum supported on manganese octahedral molecular sieves. <i>Applied Catalysis B: Environmental</i> , 2011 , 110, 231-237	21.8	44
81	Effect of the thermal conductivity of metallic monoliths on methanol steam reforming. <i>Catalysis Today</i> , 2016 , 273, 131-139	5.3	43
80	Structured catalysts based on MgAl hydrotalcite for the synthesis of biodiesel. <i>Catalysis Today</i> , 2013 , 216, 211-219	5.3	42
79	Valorization of selected fruit and vegetable wastes as bioactive compounds: Opportunities and challenges. <i>Critical Reviews in Environmental Science and Technology</i> , 2020 , 50, 2061-2108	11.1	42
78	Gold supported on CuOx/CeO ₂ catalyst for the purification of hydrogen by the CO preferential oxidation reaction (PROX). <i>Fuel</i> , 2014 , 118, 176-185	7.1	41
77	Preparation and characterisation of Mn- and Co-supported catalysts derived from Al-pillared clays and Mn- and Co-complexes. <i>Applied Catalysis A: General</i> , 2004 , 267, 47-58	5.1	41
76	Preferential oxidation of CO (CO-PROX) over CuOx/CeO ₂ coated microchannel reactor. <i>Catalysis Today</i> , 2012 , 180, 105-110	5.3	40
75	Kinetics and selectivity of methyl-ethyl-ketone combustion in air over alumina-supported PdOx-MnOx catalysts. <i>Journal of Catalysis</i> , 2009 , 261, 50-59	7.3	40
74	Design and testing of a microchannel reactor for the PROX reaction. <i>Chemical Engineering Journal</i> , 2011 , 167, 634-642	14.7	38
73	Effects of various alkali/acid additives on the activity of a manganese oxide in the catalytic combustion of ketones. <i>Applied Catalysis B: Environmental</i> , 2001 , 33, 1-8	21.8	37

72	Effect of the reduction temperature on the selectivity of the high temperature reaction of acetone and hydrogen over alumina and titania supported nickel and cobalt catalysts. <i>Journal of Molecular Catalysis</i> , 1994 , 94, 347-367		37
71	Microstructure and quantitative estimation of the micropore-size distribution of an alumina-pillared clay from nitrogen adsorption at 77 and carbon dioxide adsorption at 273. <i>Chemical Engineering Science</i> , 2003 , 58, 3059-3075	4.4	36
70	On the structural changes of a saponite intercalated with various polycations upon thermal treatments. <i>Applied Catalysis A: General</i> , 2001 , 217, 191-204	5.1	35
69	CFD analysis of the effects of the flow distribution and heat losses on the steam reforming of methanol in catalytic (Pd/ZnO) microreactors. <i>Chemical Engineering Journal</i> , 2014 , 238, 37-44	14.7	34
68	Kinetic analysis and CFD simulations of the photocatalytic production of hydrogen in silicone microreactors from water-ethanol mixtures. <i>Applied Catalysis B: Environmental</i> , 2017 , 203, 210-217	21.8	34
67	Influence of vegetable oils fatty acid composition on reaction temperature and glycerides conversion to biodiesel during transesterification. <i>Bioresource Technology</i> , 2011 , 102, 1044-50	11	34
66	Selective CO removal over Au/CeFe and CeCu catalysts in microreactors studied through kinetic analysis and CFD simulations. <i>Chemical Engineering Journal</i> , 2011 , 167, 588-596	14.7	34
65	Pillaring of saponite with zirconium oligomers. <i>Microporous and Mesoporous Materials</i> , 1998 , 24, 173-188	5.3	34
64	Development of eggshell derived catalyst for transesterification of used cooking oil for biodiesel production. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2013 , 8, 742-748	1.3	31
63	Selectivity in the High-Temperature Hydrogenation of Acetone with Silica-Supported Nickel and Cobalt Catalysts. <i>Journal of Catalysis</i> , 1995 , 157, 461-471	7.3	30
62	Influence of the O ₂ /CO ratio and the presence of H ₂ O and CO ₂ in the feed-stream during the preferential oxidation of CO (PROX) over a CuOx/CeO ₂ -coated microchannel reactor. <i>Catalysis Today</i> , 2013 , 203, 182-187	5.3	28
61	Influence of the Ti precursor on the properties of Ti-pillared smectites. <i>Clay Minerals</i> , 2001 , 36, 125-138	1.3	28
60	Application of Eco-Design and Life Cycle Assessment Standards for Environmental Impact Reduction of an Industrial Product. <i>Sustainability</i> , 2017 , 9, 1724	3.6	27
59	Synthesis of biodiesel from sunflower oil with silica-supported NaOH catalysts. <i>Journal of Chemical Technology and Biotechnology</i> , 2008 , 83, 862-870	3.5	25
58	A CFD study on the effect of the characteristic dimension of catalytic wall microreactors. <i>AIChE Journal</i> , 2012 , 58, 2785-2797	3.6	24
57	Conversion of a gasoline engine-generator set to a bi-fuel (hydrogen/gasoline) electronic fuel-injected power unit. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 13781-13792	6.7	23
56	Effect of the design variables on the energy performance and size parameters of a heat transformer based on the system acetone/H ₂ /2-propanol. <i>International Journal of Energy Research</i> , 1992 , 16, 851-864	4.5	22
55	Conversion of a commercial gasoline vehicle to run bi-fuel (hydrogen-gasoline). <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 1781-1789	6.7	21

54	Preparation and characterisation of vanadium catalysts supported over alumina-pillared clays. <i>Catalysis Today</i> , 2003 , 78, 181-190	5.3	21
53	DRIFTS study of methanol adsorption on Mg/Al hydrotalcite catalysts for the transesterification of vegetable oils. <i>Catalysis Communications</i> , 2012 , 17, 189-193	3.2	20
52	Non-aggressive pillaring of clays with zirconium acetate. Comparison with alumina pillared clays. <i>Applied Catalysis A: General</i> , 1999 , 183, 23-33	5.1	20
51	Characterization of combustion anomalies in a hydrogen-fueled 1.4 L commercial spark-ignition engine by means of in-cylinder pressure, block-engine vibration, and acoustic measurements. <i>Energy Conversion and Management</i> , 2018 , 172, 67-80	10.6	19
50	A new strong basic high surface area catalyst: The nitrided aluminophosphate: ALPON and Ni-ALPON. <i>Studies in Surface Science and Catalysis</i> , 1995 , 381-389	1.8	19
49	Issues concerning the use of renewable Ca-based solids as transesterification catalysts. <i>Fuel</i> , 2015 , 158, 558-564	7.1	18
48	Monitoring of the methanolysis reaction for biodiesel production by off-line and on-line refractive index and speed of sound measurements. <i>Fuel</i> , 2014 , 121, 157-164	7.1	17
47	Relevance of plant design on CLC process performance using a Cu-based oxygen carrier. <i>Fuel Processing Technology</i> , 2018 , 171, 78-88	7.2	16
46	In Situ Synthesis of SERS-Active Au@POM Nanostructures in a Microfluidic Device for Real-Time Detection of Water Pollutants. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 36458-36467	9.5	16
45	Syngas production via catalytic oxidative steam reforming of glycerol using a Co/Al coprecipitated catalyst and different bed fillers. <i>Fuel Processing Technology</i> , 2019 , 189, 120-133	7.2	15
44	Preferential oxidation of CO over Au/CuOx/TeO2 catalyst in microstructured reactors studied through CFD simulations. <i>Catalysis Today</i> , 2013 , 216, 283-291	5.3	15
43	Metallic monolithic catalysts based on calcium and cerium for the production of biodiesel. <i>Fuel</i> , 2016 , 182, 668-676	7.1	14
42	Catalytic Performance of Bulk and Al ₂ O ₃ -Supported Molybdenum Oxide for the Production of Biodiesel from Oil with High Free Fatty Acids Content. <i>Catalysts</i> , 2020 , 10, 158	4	13
41	Functionalization of 3D printed ABS filters with MOF for toxic gas removal. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 89, 194-203	6.3	12
40	Life cycle assessment of natural gas fuelled power plants based on chemical looping combustion technology. <i>Energy Conversion and Management</i> , 2019 , 198, 111856	10.6	12
39	Partial oxidation of methane to syngas using Co/Mg and Co/Mg-Al oxide supported catalysts. <i>Catalysis Today</i> , 2019 , 333, 259-267	5.3	12
38	Kinetics of Methyl Ethyl Ketone Combustion in Air at Low Concentrations over a Commercial Pt/Al ₂ O ₃ Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 9037-9044	3.9	11
37	Comparative performance of coke oven gas, hydrogen and methane in a spark ignition engine. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 17572-17586	6.7	11

36	Ecodesign of PVC packing tape using life cycle assessment. <i>International Journal of Life Cycle Assessment</i> , 2014 , 19, 218-230	4.6	10
35	New alumina/aluminium monoliths for the catalytic elimination of VOCs. <i>Studies in Surface Science and Catalysis</i> , 2000 , 130, 593-598	1.8	10
34	Dehydrogenation of Ethylbenzene on Alumina-Chromia-Pillared Saponites. <i>Catalysis Letters</i> , 2002 , 78, 99-103	2.8	9
33	Environmental Evaluation of the Improvements for Industrial Scaling of Zeolite Membrane Manufacturing by Life Cycle Assessment. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 15773-15780	8.3	9
32	Effect of oxygen addition, reaction temperature and thermal treatments on syngas production from biogas combined reforming using Rh/alumina catalysts. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 80, 217-226	6.3	8
31	Corrections to Hydrogen Production From Water Electrolysis: Current Status and Future Trends [Feb 12 410-426]. <i>Proceedings of the IEEE</i> , 2012 , 100, 811-811	14.3	8
30	Renewable Hydrogen Energy 2013 , 1-17		8
29	Unsupported and supported manganese oxides used in the catalytic combustion of methyl-ethyl-ketone. <i>Studies in Surface Science and Catalysis</i> , 2000 , 143, 527-535	1.8	8
28	Activity and stability of single and perovskite-type manganese and cobalt oxides in the catalytic combustion of acetone. <i>Studies in Surface Science and Catalysis</i> , 2000 , 130, 2153-2158	1.8	8
27	Study of the high temperature reaction of acetone and hydrogen over zinc oxide-supported Ni and Co catalysts. <i>Reaction Kinetics and Catalysis Letters</i> , 1994 , 53, 261-268		8
26	Dehydrogenation of ethylbenzene on alumina-pillared Fe-rich saponites. <i>Catalysis Letters</i> , 2005 , 101, 229-234	2.8	7
25	Oxidative steam reforming of glycerol. A review. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 148, 111299	16.2	7
24	Influence of the Nickel Reduction Degree on the Toxicity of H ₂ S and Thiophene over a Ni/SiO ₂ Catalyst. <i>Journal of Catalysis</i> , 1996 , 162, 349-358	7.3	6
23	Hydrotalcites as Catalysts and Catalysts Precursors for the Synthesis of Biodiesel. <i>Key Engineering Materials</i> , 2013 , 571, 1-26	0.4	5
22	Texture evolution of nickel and cobalt activated-charcoal-supported catalysts during thermal treatments at increasing temperatures. <i>Journal of Physics and Chemistry of Solids</i> , 1997 , 58, 1079-1089	3.9	5
21	Preparation and characterization of manganese- and samarium-manganese-alumina pillared montmorillonites. <i>Reaction Kinetics and Catalysis Letters</i> , 1998 , 64, 145-151		5
20	A techno-economic and life cycle assessment for the production of green methanol from CO ₂ : catalyst and process bottlenecks. <i>Journal of Energy Chemistry</i> , 2021 , 68, 255-255	12	5
19	Entropy of chemical processes versus numerical representability of orderings. <i>Journal of Mathematical Chemistry</i> , 2016 , 54, 503-526	2.1	4

18	Computational Fluid Dynamics as a Tool for Designing Hydrogen Energy Technologies 2013 , 401-435		4
17	Innovative catalyst integration on transparent silicone microreactors for photocatalytic applications. <i>Catalysis Today</i> , 2020 , 383, 164-164	5.3	3
16	Production of Aromatic Compounds by Catalytic Depolymerization of Technical and Downstream Biorefinery Lignins. <i>Biomolecules</i> , 2020 , 10,	5.9	3
15	Oak wood extracts applied to the grapevine. An alternative to obtain quality Garnacha wines. <i>Food Research International</i> , 2018 , 105, 628-636	7	3
14	Three-Dimensional Printing of Acrylonitrile Butadiene Styrene Microreactors for Photocatalytic Applications. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 20686-20692	3.9	2
13	Renewable Hydrocarbon Production from Waste Cottonseed Oil Pyrolysis and Catalytic Upgrading of Vapors with Mo-Co and Mo-Ni Catalysts Supported on γ -Al ₂ O ₃ . <i>Nanomaterials</i> , 2021 , 11,	5.4	2
12	Hydrogen Hazards and Risks Analysis through CFD Simulations 2013 , 437-452		1
11	CHARACTERIZATION OF THE POROUS STRUCTURE OF AN ALUMINA-PILLARED CLAY BY MEANS OF NITROGEN ADSORPTION AND IMMERSION CALORIMETRY. <i>Chemical Engineering Communications</i> , 2005 , 192, 827-837	2.2	1
10	Comparative study of the textural properties of alumina-pillared saponites synthesised from the intercalation with various aluminium oligomers. <i>Studies in Surface Science and Catalysis</i> , 2002 , 144, 585-592	1.8	1
9	Catalytic performance in the complete acetone oxidation of manganese and cobalt oxides supported on alumina and silica? *Financial support by the Ministry of Science and Technology (MAT2000-0985) and the Department of Education and Culture of the Navarre Government (Orden Foral 143/1998) is gratefully acknowledged. <i>Studies in Surface Science and Catalysis</i> , 2000 , 517-525	1.8	1
8	Thiophene hydrogenolysis using temperature-programmed surface reaction as a tool to study poison toxicity. <i>Applied Catalysis A: General</i> , 1995 , 132, L1-L7	5.1	1
7	Acoustic and psychoacoustic levels from an internal combustion engine fueled by hydrogen vs. gasoline. <i>Fuel</i> , 2022 , 317, 123505	7.1	1
6	Pseudo-Homogeneous and Heterogeneous Kinetic Models of the NaOH-Catalyzed Methanolysis Reaction for Biodiesel Production. <i>Energies</i> , 2021 , 14, 4192	3.1	1
5	Performance comparison between washcoated and packed-bed monolithic reactors for the low-temperature Fischer-Tropsch synthesis. <i>Chemical Engineering Journal</i> , 2021 , 425, 130424	14.7	1
4	Mesoporous Sn-In-MCM-41 Catalysts for the Selective Sugar Conversion to Methyl Lactate and Comparative Life Cycle Assessment with the Biochemical Process.. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 2868-2880	8.3	1
3	Iron-based oxygen carrier particles produced from micronized size minerals or industrial wastes. <i>Powder Technology</i> , 2021 , 396, 637-637	5.2	0
2	Reaction Monitoring by Ultrasounds in a Pseudohomogeneous Medium: Triglyceride Ethanolysis for Biodiesel Production. <i>Processes</i> , 2022 , 10, 12	2.9	0
1	Application of a Modeling Tool to Describe Fly Ash Generation, Composition, and Melting Behavior in a Wheat Straw Fired Commercial Power Plant. <i>Processes</i> , 2020 , 8, 1510	2.9	

