

CITATION REPORT

List of articles citing

Oxy-fuel combustion technology for coal-fired power genera

DOI: 10.1016/j.pecs.2005.07.001

Progress in Energy and Combustion Science, 2005, 31, 283-30

Source: <https://exaly.com/paper-pdf/38047780/citation-report.pdf>

Version: 2024-04-26

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
1241	Preliminary Study on CO ₂ Processing in CO ₂ Capture From Oxy-Fuel Combustion. 2007 , 353		11
1240	Ash particle formation during O ₂ /CO ₂ combustion of pulverized coals. 2007 , 88, 1021-1028		84
1239	High efficiency electric power generation: The environmental role. <i>Progress in Energy and Combustion Science</i> , 2007 , 33, 107-134	33.6	378
1238	Extinction characteristics of CH ₄ /CO ₂ versus O ₂ /CO ₂ counterflow non-premixed flames at elevated pressures up to 0.7MPa. 2007 , 31, 1223-1230		50
1237	Ignition and devolatilization of pulverized bituminous coal particles during oxygen/carbon dioxide coal combustion. 2007 , 31, 1905-1912		335
1236	Combustion processes for carbon capture. 2007 , 31, 31-47		466
1235	Two novel oxy-fuel power cycles integrated with natural gas reforming and CO ₂ capture. 2008 , 33, 340-351		66
1234	Single-coal-particle combustion in O ₂ /N ₂ and O ₂ /CO ₂ environments. 2008 , 153, 270-287		279
1233	Radiation intensity of lignite-fired oxy-fuel flames. 2008 , 33, 67-76		96
1232	Carbonation of fly ash in oxy-fuel CFB combustion. 2008 , 87, 1108-1114		75
1231	Factors influencing the ignition of flames from air-fired swirl pf burners retrofitted to oxy-fuel. 2008 , 87, 1042-1049		110
1230	Experimental study of ash formation during pulverized coal combustion in O ₂ /CO ₂ mixtures. 2008 , 87, 1297-1305		112
1229	Charged fraction and electrostatic collection of ultrafine and submicrometer particles formed during O ₂ /CO ₂ coal combustion. 2008 , 87, 673-682		34
1228	Effect of biomass blending on coal ignition and burnout during oxy-fuel combustion. 2008 , 87, 2753-2759		126
1227	Solid Looping Cycles: A New Technology for Coal Conversion. 2008 , 47, 1747-1754		166
1226	Clean coal conversion processes [p]rogress and challenges. 2008 , 1, 248		208
1225	Improvement of Load-Following Capacity Based on the Flame Radiation Intensity Signal in a Power Plant. 2008 , 22, 1731-1738		8

1224	Chemical Effects of a High CO ₂ Concentration in Oxy-Fuel Combustion of Methane. 2008 , 22, 291-296	297
1223	Experimental Study of O ₂ /CO ₂ Production for the Oxyfuel Combustion Using a Co-Based Oxygen Carrier. 2008 , 47, 7147-7153	32
1222	Combustion Characteristics of Fine- and Micro-pulverized Coal in the Mixture of O ₂ /CO ₂ . 2008 , 22, 3756-3762	74
1221	NO Emission during Oxy-Fuel Combustion of Lignite. 2008 , 47, 1835-1845	101
1220	Computational and experimental study of oxygen-enhanced axisymmetric laminar methane flames. 2008 , 12, 497-527	37
1219	A New Stable Operating Regime for Oxyfuel Combustion. 2008 ,	1
1218	Comparative Study of Two Low CO ₂ Emission Power Generation System Options With Natural Gas Reforming. 2008 , 130,	10
1217	Burning Profile of High Ash Indian Coals in Oxy-Fuel Environment. 2008 ,	2
1216	Flue Gases from Stationary Sources. 2008 , 2345	3
1215	Modelling Radiative Heat Transfer in Oxycoal Combustion. 2009 ,	2
1214	Progress and New Developments in Carbon Capture and Storage. 2009 , 28, 123-138	82
1213	Scale formation mechanisms of martensitic steels in high CO ₂ /H ₂ O-containing gases simulating oxyfuel environments. 2009 , 26, 63-72	72
1212	Thermodynamic Analysis and Comparison on Oxy-Fuel Power Generation Process. 2009 , 131,	6
1211	Investigation on the Carbonation of CaO in Oxy-Fuel Fired Circulating Fluidized Bed. 2009 ,	
1210	Flame structure and NO generation in oxy-fuel combustion at high pressures. 2009 , 50, 1116-1123	30
1209	Near Zero CO ₂ Emissions in Coal Firing with Oxy-Fuel Circulating Fluidized Bed Boiler. 2009 , 32, 355-363	41
1208	Limestone Attrition under Simulated Oxyfiring Fluidized-Bed Combustion Conditions. 2009 , 32, 380-385	3
1207	Post combustion CO ₂ capture by carbon fibre monolithic adsorbents. <i>Progress in Energy and Combustion Science</i> , 2009 , 35, 438-455	33.6 169

1206	Impurity impacts on the purification process in oxy-fuel combustion based CO ₂ capture and storage system. 2009 , 86, 202-213	161
1205	Ammonia chemistry in oxy-fuel combustion of methane. 2009 , 156, 1937-1949	225
1204	Comparison of pulverized coal combustion in air and in O ₂ /CO ₂ mixtures by thermo-gravimetric analysis. 2009 , 85, 521-528	198
1203	Sulfur evolution from coal combustion in O ₂ /CO ₂ mixture. 2009 , 86, 269-273	41
1202	Continuous O ₂ -CO ₂ production using a Co-based oxygen carrier in two parallel fixed-bed reactors. 2009 , 26, 845-849	20
1201	Emission control of nitrogen oxides in the oxy-fuel process. <i>Progress in Energy and Combustion Science</i> , 2009 , 35, 385-397	33.6 209
1200	An economic feasibility study of O ₂ /CO ₂ recycle combustion technology based on existing coal-fired power plants in China. 2009 , 88, 1135-1142	47
1199	Differences in reactivity of pulverised coal in air (O ₂ /N ₂) and oxy-fuel (O ₂ /CO ₂) conditions. 2009 , 90, 797-802	230
1198	Enhancement of direct sulfation of limestone by Na ₂ CO ₃ addition. 2009 , 90, 889-894	18
1197	Pinch analysis approach to carbon-constrained planning for sustainable power generation. 2009 , 17, 940-944	97
1196	Particle imaging of ignition and devolatilization of pulverized coal during oxy-fuel combustion. 2009 , 32, 2091-2098	273
1195	An overview on oxyfuel coal combustion State of the art research and technology development. 2009 , 87, 1003-1016	646
1194	Characteristics of non-premixed oxygen-enhanced combustion: I. The presence of appreciable oxygen at the location of maximum temperature. 2009 , 156, 2145-2152	18
1193	Oxygen combustion in cement production. 2009 , 1, 187-194	29
1192	Capture technologies: Improvements and promising developments. 2009 , 1, 1505-1512	109
1191	Analysis of oxy-fuel combustion power cycle utilizing a pressurized coal combustor. 2009 , 34, 1332-1340	181
1190	Predictions of NO _x in a Laboratory Pulverized Coal Combustor Operating under Air and Oxy-Fuel Conditions. 2009 , 181, 1413-1430	12
1189	LES Modeling of Oxy-combustion of Pulverized Coal: Preliminary Study. 2009 ,	

1188	Notice of Retraction: Numerical Study of Pulverized Coal Ignition Characteristics under O ₂ /CO ₂ Atmosphere. 2010 ,	
1187	Techno-Economic Evaluation of Pressurized Oxy-Fuel Combustion Systems. 2010 ,	1
1186	Regeneration of spent catalysts in oxy-combustion atmosphere. 2010 , 34, 262-268	6
1185	Flue gas desulfurization under simulated oxyfiring fluidized bed combustion conditions: The influence of limestone attrition and fragmentation. 2010 , 65, 556-561	35
1184	Crisp and fuzzy integer programming models for optimal carbon sequestration retrofit in the power sector. 2010 , 88, 1580-1588	42
1183	Variation in the structure of anthracite at a fast heating rate as determined by its optical properties: An example of oxy-combustion conditions in a drop tube reactor. 2010 , 81, 301-308	7
1182	Oxy-fuel combustion of coal and biomass, the effect on radiative and convective heat transfer and burnout. 2010 , 157, 2230-2240	67
1181	A pilot scale study on co-capture of SO ₂ and NO _x in O ₂ /CO ₂ recycled coal combustion and techno-economic evaluation. 2010 , 53, 155-159	5
1180	Experimental and modeling study of NO emission under high CO ₂ concentration. 2010 , 53, 3275-3283	3
1179	Technical-economic evaluation of O ₂ /CO ₂ recycle combustion power plant based on life-cycle. 2010 , 53, 3284-3293	16
1178	Fine particle collection of an electrostatic precipitator in CO ₂ -rich gas conditions for oxy-fuel combustion. 2010 , 408, 5158-64	16
1177	Introduction. 2010 , 1-56	3
1176	Transformation behaviors of excluded pyrite during O ₂ /CO ₂ combustion of pulverized coal. 2010 , 5, 304-309	15
1175	Contribution of fuel cell systems to CO ₂ emission reduction in their application fields. 2010 , 14, 735-744	35
1174	SrCo _{0.8} Fe _{0.2} O ₃ sorbent for high-temperature production of oxygen-enriched carbon dioxide stream. 2010 , 89, 1429-1434	36
1173	Study on ash deposition under oxyfuel combustion of coal/biomass blends. 2010 , 89, 1889-1902	106
1172	Coal devolatilization and char conversion under suspension fired conditions in O ₂ /N ₂ and O ₂ /CO ₂ atmospheres. 2010 , 89, 3373-3380	82
1171	Radiation and convective heat transfer, and burnout in oxy-coal combustion. 2010 , 89, 2468-2476	71

1170	In situ diagnostics of Victorian brown coal combustion in O ₂ /N ₂ and O ₂ /CO ₂ mixtures in drop-tube furnace. 2010 , 89, 2703-2712	95
1169	An investigation of the causes of the difference in coal particle ignition temperature between combustion in air and in O ₂ /CO ₂ . 2010 , 89, 3381-3387	80
1168	Controlling the excess heat from oxy-combustion of coal by blending with biomass. 2010 , 91, 1569-1575	43
1167	Oxy-fuel circulating fluidized bed combustion in a small pilot-scale test rig. 2010 , 91, 1617-1623	88
1166	Oxy-fuel combustion of solid fuels. <i>Progress in Energy and Combustion Science</i> , 2010 , 36, 581-625	33.6 819
1165	Optimal energy planning models with carbon footprint constraints. 2010 , 87, 1903-1910	97
1164	In-depth numerical analysis on the determination of amount of CO ₂ recirculation in LNG/O ₂ /CO ₂ combustion. 2010 , 30, 616-622	2
1163	Properties of char particles obtained under O ₂ /N ₂ and O ₂ /CO ₂ combustion environments. 2010 , 49, 449-459	29
1162	Effect of attrition on particle size distribution and SO ₂ capture in fluidized bed combustion under high CO ₂ partial pressure conditions. 2010 , 65, 550-555	11
1161	Reactivity to CO ₂ of chars prepared in O ₂ /N ₂ and O ₂ /CO ₂ mixtures for pulverized coal injection (PCI) in blast furnace in relation to char petrographic characteristics. 2010 , 84, 293-300	17
1160	HCN oxidation in an O ₂ /CO ₂ atmosphere: An experimental and kinetic modeling study. 2010 , 157, 267-276	91
1159	Multimodal ultrafine particles from pulverized coal combustion in a laboratory scale reactor. 2010 , 157, 1290-1297	10
1158	Evaluation of reaction mechanism of coal/metal oxide interactions in chemical-looping combustion. 2010 , 157, 2198-2208	77
1157	Coal-fired oxy-fuel power unit [Process and system analysis. 2010 , 35, 943-951	53
1156	Hybrid membrane/cryogenic separation of oxygen from air for use in the oxy-fuel process. 2010 , 35, 1884-1897	128
1155	Operating pressure dependence of the pressurized oxy-fuel combustion power cycle. 2010 , 35, 5391-5399	94
1154	CO ₂ Greenhouse Gas Formation and Capture. 2010 , 375	
1153	Carbon Capture from Power Generation. 2010 , 65-93	

1152	High Temperature Corrosion of Fe-Cr, Fe-Al, Fe-Si and Fe-Si-Al Alloys in CO ₂ -H ₂ O Gases. 2010 , 654-656, 1948-1951	3
1151	Chemical-looping combustion systems and technology for carbon dioxide (CO ₂) capture in power plants. 2010 , 358-379	
1150	Experimental and Numerical Investigation on the Laminar Flame Speed of CH ₄ /O ₂ Mixtures Diluted With CO ₂ and H ₂ O. 2010 ,	32
1149	Oxyfuel PFBC-CC Power Generation Process. 2010 ,	
1148	The oxidation behaviour of the 9 % Cr steel P92 in CO ₂ - and H ₂ O-rich gases relevant to oxyfuel environments. 2010 , 101, 287-299	41
1147	Overview of Oxy-Combustion Technologies with Pure Oxygen and Chemical Looping Combustion. 2010 , 517	1
1146	Highly-selective and reversible O ₂ binding in Cr ₃ (1,3,5-benzenetricarboxylate) ₂ . 2010 , 132, 7856-7	266
1145	Nitric Oxide Emissions during Coal and Coal/Biomass Combustion under Air-Fired and Oxy-fuel Conditions. 2010 , 24, 4144-4152	32
1144	Emissions of SO ₂ and NO _x during Oxyfuel CFB Combustion Tests in a Mini-Circulating Fluidized Bed Combustion Reactor. 2010 , 24, 910-915	130
1143	Overview of Solid Fuels Combustion Technologies. 2010 , 31	1
1142	Combustion of Single Coal Char Particles under Fluidized Bed Oxyfiring Conditions. 2010 , 49, 11029-11036	39
1141	Experimental Investigation of the Combustion of Bituminous Coal in Air and O ₂ /CO ₂ Mixtures: 1. Particle Imaging of the Combustion of Coal and Char. 2010 , 24, 4803-4811	19
1140	Investigation of the Oxy-fuel Gasification of Coal in a Laboratory-Scale Spouted-Bed Reactor: Reactor Modifications and Initial Results. 2010 , 24, 5281-5288	22
1139	Fluidized bed combustion of single coal char particles at high CO ₂ concentration. 2010 , 165, 902-906	44
1138	Sulfation Performance of CaO-Based Pellets Supported by Calcium Aluminate Cements Designed for High-Temperature CO ₂ Capture. 2010 , 24, 1414-1420	17
1137	Radiation modelling in oxy-fuel combustion scenarios. 2010 , 24, 69-82	34
1136	Integration of Evaporative Gas Turbine with Oxy-Fuel Combustion for Carbon Dioxide Capture. 2010 , 7, 615-631	22
1135	Performance of inductively coupled oxygen sensors. 2010 ,	

1134	. 2011,	1
1133	Role of Temperature in the Structure of Zn(II)-1,4-BDC Metal-Organic Frameworks and their Adsorption and Diffusion Properties for Carbon Dioxide. 2011, 46, 1337-1345	7
1132	A Modified Quantize Model for Depicting Coal Char Combustion under O ₂ /CO ₂ Atmosphere. 2011,	
1131	A Critical Review of Coal Demineralization and Its Implication on Understanding the Speciation of Organically Bound Metals and Submicrometer Mineral Grains in Coal. 2011, 25, 1-16	72
1130	Integration of calcium and chemical looping combustion using composite CaO/CuO-based materials. 2011, 45, 10750-6	73
1129	Factors Affecting NO Reduction during O ₂ /CO ₂ Combustion. 2011, 25, 2487-2492	11
1128	Emissions of NO _x and SO ₂ from Coals of Various Ranks, Bagasse, and Coal-Bagasse Blends Burning in O ₂ /N ₂ and O ₂ /CO ₂ Environments.. 2011, 25, 2850-2861	85
1127	Effect of CO ₂ during Coal Pyrolysis and Char Burnout in Oxy-Coal Combustion. 2011, 25, 2452-2459	52
1126	Biomass Combustion with in Situ CO ₂ Capture with CaO. I. Process Description and Economics. 2011, 50, 6972-6981	18
1125	A Model for Nitrogen Chemistry in Oxy-Fuel Combustion of Pulverized Coal. 2011, 25, 4280-4289	29
1124	Performance of a Wet Flue Gas Desulfurization Pilot Plant under Oxy-Fuel Conditions. 2011, 50, 4238-4244	23
1123	Influence of Water Vapor on the Direct Sulfation of Limestone under Simulated Oxy-fuel Fluidized-Bed Combustion (FBC) Conditions. 2011, 25, 617-623	22
1122	Simulation Study of an 800 MWe Oxy-combustion Pulverized-Coal-Fired Power Plant. 2011, 25, 2405-2415	52
1121	CaO-Based Pellets with Oxygen Carriers and Catalysts. 2011, 25, 4846-4853	42
1120	Kinetic Parameters and Reactivity for the Steam Gasification of Coal Chars Obtained under Different Pyrolysis Temperatures and Pressures. 2011, 25, 3574-3580	18
1119	O ₂ /CO ₂ coal combustion characteristics in a 50 kWth circulating fluidized bed. 2011, 5, 770-776	69
1118	CO ₂ capture in coal-fired power plants Impact on plant performance. 2011, 5, 710-726	52
1117	Demonstrations of coal-fired oxy-fuel technology for carbon capture and storage and issues with commercial deployment. 2011, 5, S5-S15	85

1116	Ash and deposit formation from oxy-coal combustion in a 100 kW test furnace. 2011 , 5, S159-S167	59
1115	Validation of spectral gas radiation models under oxyfuel conditions. Part A: Gas cell experiments. 2011 , 5, S76-S99	30
1114	Validation of spectral gas radiation models under oxyfuel conditions Part B: Natural gas flame experiments. 2011 , 5, S66-S75	18
1113	Oxy-fuel coal combustion A review of the current state-of-the-art. 2011 , 5, S16-S35	415
1112	CO ₂ effects on near field aerodynamic phenomena in 40 kW, co-axial, oxy-coal, turbulent diffusion flames. 2011 , 5, S47-S57	14
1111	A novel IGCC plant with membrane oxygen separation and carbon capture by carbonation–calcinations loop. 2011 , 5, 1176-1183	20
1110	Exergy Analysis of a 600 MWe Oxy-combustion Pulverized-Coal-Fired Power Plant. 2011 , 25, 3854-3864	60
1109	Evaluation of the Effect of the Concentration of CO ₂ on the Overall Reactivity of Drop Tube Furnace Derived Indian Sub-bituminous Coal Chars during CO ₂ /O ₂ Combustion. 2011 , 50, 12865-12871	11
1108	Turbulent piloted partially-premixed flames with varying levels of O ₂ /N ₂ : stability limits and PDF calculations. 2011 , 15, 773-793	12
1107	Amidoximes: promising candidates for CO ₂ capture. 2011 , 4, 4528	70
1106	Synchrotron-based XANES speciation of chromium in the oxy-fuel fly ash collected from lab-scale drop-tube furnace. 2011 , 45, 6640-6	36
1105	Combustion Characteristics and Ash Formation of Pulverized Coal under Pressurized Oxy-Fuel Conditions. 2011 , 25, 4333-4344	45
1104	Thermodynamic Optimization of Advanced Steam Power Plants Retrofitted for Oxy-Coal Combustion. 2011 , 133,	10
1103	Core-in-Shell CaO/CuO-Based Composite for CO ₂ Capture. 2011 , 50, 12384-12391	56
1102	Second law analyses on oxy-fuel combustion of gaseous fuels. 2011 , 9, 319	3
1101	Study of the effects of low and high stoichiometry on the flame stabilization during oxycoal combustion with Non-Stoichiometric Burners. 2011 ,	
1100	Radiative Property Measurements of Oxy-Fuel Flames. 2011 ,	
1099	Ta-doped SrCo _{0.8} Fe _{0.2} O _{3-δ} membranes: Phase stability and oxygen permeation in CO ₂ atmosphere. 2011 , 196, 30-33	81

1098	Sustainable energy systems: Role of optimization modeling techniques in power generation and supply. A review. 2011 , 15, 3480-3500	239
1097	Effect of oxy-fuel combustion with steam addition on coal ignition and burnout in an entrained flow reactor. 2011 , 36, 5314-5319	92
1096	Expert assessments of retrofitting coal-fired power plants with carbon dioxide capture technologies. 2011 , 39, 5609-5620	28
1095	Counterflow diffusion flame of hydrogen-enriched biogas under MILD oxy-fuel condition. 2011 , 36, 15403-15413	139
1094	Influence of O ₂ /CO ₂ mixtures on the fluid-dynamics of an oxy-fired fluidized bed reactor. 2011 , 178, 129-137	18
1093	Air and oxy-fuel combustion characteristics of biomass/lignite blends in TGA-FTIR. 2011 , 92, 1101-1108	128
1092	Coal gasification in CO ₂ atmosphere and its kinetics since 1948: A brief review. 2011 , 36, 12-40	373
1091	CFD modelling of oxy-coal combustion in an entrained flow reactor. 2011 , 92, 1489-1497	47
1090	Characterization of ashes from a 100kWth pilot-scale circulating fluidized bed with oxy-fuel combustion. 2011 , 88, 2940-2948	71
1089	Combustion modelling opportunities and challenges for oxy-coal carbon capture technology. 2011 , 89, 1470-1493	140
1088	SO ₂ effects on CO oxidation in a CO ₂ atmosphere, characteristic of oxy-fuel conditions. 2011 , 158, 48-56	41
1087	Account for variations in the H ₂ O to CO ₂ molar ratio when modelling gaseous radiative heat transfer with the weighted-sum-of-grey-gases model. 2011 , 158, 893-901	147
1086	Sulphur impacts during pulverised coal combustion in oxy-fuel technology for carbon capture and storage. <i>Progress in Energy and Combustion Science</i> , 2011 , 37, 69-88	33.6 157
1085	Effect of different concentration levels of CO ₂ and H ₂ O on the oxidation of CO: Experiments and modeling. 2011 , 33, 317-323	66
1084	Control of PM ₁ by kaolin or limestone during O ₂ /CO ₂ pulverized coal combustion. 2011 , 33, 2837-2843	45
1083	Effect of CO ₂ gasification reaction on oxy-combustion of pulverized coal char. 2011 , 33, 1699-1706	134
1082	Coal combustion-generated aerosols: Formation and properties. 2011 , 33, 1681-1697	204
1081	Progress and recent trend in MILD combustion. 2011 , 54, 255-269	107

1080	Sulfur fate during bituminous coal combustion in an oxy-fired circulating fluidized bed combustor. 2011 , 28, 1952-1955	19
1079	Engineering geo-engineering. 2011 , 18, 1-8	12
1078	A review of recent developments in carbon capture utilizing oxy-fuel combustion in conventional and ion transport membrane systems. 2011 , 35, 741-764	136
1077	CO ₂ -stabile und cobaltfreie Zweiphasenmembranen zur Sauerstoffabtrennung. 2011 , 123, 785-789	11
1076	CO ₂ -stable and cobalt-free dual-phase membrane for oxygen separation. 2011 , 50, 759-63	178
1075	Simultaneous Carbonation and Sulfation of CaO in Oxy-Fuel CFB Combustion. 2011 , 34, 1685-1690	17
1074	Design and operation assessment of an oxyfuel fluidized bed combustor. 2011 , 35, 477-484	34
1073	Radiative heat flux characteristics of methane flames in oxy-fuel atmospheres. 2011 , 35, 1343-1350	30
1072	NO _x formation and reduction mechanisms in staged O ₂ /CO ₂ combustion. 2011 , 158, 1255-1263	63
1071	A combustion concept for oxyfuel processes with low recirculation rate [Experimental validation]. 2011 , 158, 1542-1552	39
1070	High-speed OH-PLIF imaging of extinction and re-ignition in non-premixed flames with various levels of oxygenation. 2011 , 158, 902-914	55
1069	Modeling and simulation of an oxy-fuel combustion boiler system with flue gas recirculation. 2011 , 35, 25-40	22
1068	The characteristics of NO production mechanism on flue gas recirculation in oxy-firing condition. 2011 , 31, 1163-1171	20
1067	Control system for an oxy-fuel combustion fluidized bed with flue gas recirculation. 2011 , 4, 972-979	15
1066	Modeling of radiative properties of an Oxyfuel atmosphere with a weighted sum of gray gases for variable carbon dioxide and water vapor concentrations. 2011 , 4, 980-987	17
1065	Analysis on combustion and gasification characteristics of Datong coal in a CO ₂ -rich atmosphere by different temperature gradientEffect of oxygen concentration. 2011 , 4, 1252-1259	
1064	An energy network with polygeneration system and CCS suitable for China. 2011 , 4, 2332-2339	3
1063	Thermogravimetric analysis of the combustion of microalgae and microalgae blended with waste in N ₂ /O ₂ and CO ₂ /O ₂ atmospheres. 2011 , 102, 1879-85	63

1062	Experimental investigation of NO emissions in oxycoal combustion. 2011 , 90, 1604-1611	75
1061	NO precursors evolution during coal heating process in CO ₂ atmosphere. 2011 , 90, 1668-1673	38
1060	Experimental investigation of the combustion of bituminous coal in air and O ₂ /CO ₂ mixtures: 2. Variation of the transformation behaviour of mineral matter with bulk gas composition. 2011 , 90, 1361-1369	18
1059	CFD modelling of air-fired and oxy-fuel combustion of lignite in a 100KW furnace. 2011 , 90, 1778-1795	90
1058	Modeling char conversion under suspension fired conditions in O ₂ /N ₂ and O ₂ /CO ₂ atmospheres. 2011 , 90, 2224-2239	25
1057	Ash partitioning during the oxyfuel combustion of lignite and its dependence on the recirculation of flue gas impurities (H ₂ O, HCl and SO ₂). 2011 , 90, 2207-2216	28
1056	Chemistry and radiation in oxy-fuel combustion: A computational fluid dynamics modeling study. 2011 , 90, 2519-2529	93
1055	Flame temperatures and species concentrations in non-stoichiometric oxycoal flames. 2011 , 90, 3109-3117	11
1054	Effects of operation parameters on NO emission in an oxy-fired CFB combustor. 2011 , 92, 379-384	65
1053	Modeling of NO _x conversion during combustion under high CO ₂ concentration using detailed chemical kinetics. 2011 , 92, 939-945	11
1052	Primary fragmentation of limestone under oxy-firing conditions in a bubbling fluidized bed. 2011 , 92, 1449-1456	28
1051	Oxyfuel coal combustion by efficient integration of oxygen transport membranes. 2011 , 5, 7-15	125
1050	Iron and nickel doped alkaline-earth catalysts for biomass gasification with simultaneous tar reformation and CO ₂ capture. 2011 , 36, 5296-5310	106
1049	An integrated power generation system combining solid oxide fuel cell and oxy-fuel combustion for high performance and CO ₂ capture. 2011 , 88, 1187-1196	81
1048	Combustion behaviour of Turkish lignite in O ₂ /N ₂ and O ₂ /CO ₂ mixtures by using TGA/TIR. 2011 , 90, 133-139	40
1047	The combustion reactivity of coal chars in oxyfuel atmosphere: Comparison of different random pore models. 2011 , 91, 251-256	9
1046	Soot, unburned carbon and ultrafine particle emissions from air- and oxy-coal flames. 2011 , 33, 3415-3421	42
1045	Experimental study of influence of temperature on fuel-N conversion and recycle NO reduction in oxyfuel combustion. 2011 , 33, 1731-1738	44

1044	Emission properties of PM2.5 derived from CFB under O ₂ /CO ₂ atmosphere. 2011 , 33, 2829-2835	8
1043	Ignition in 40kW co-axial turbulent diffusion oxy-coal jet flames. 2011 , 33, 3375-3382	35
1042	Evolution of organically bound metals during coal combustion in air and O ₂ /CO ₂ mixtures: A case study of Victorian brown coal. 2011 , 33, 2795-2802	13
1041	Fundamental investigation of NO _x formation during oxy-fuel combustion of pulverized coal. 2011 , 33, 1723-1730	74
1040	Impact of SO ₂ concentration on the corrosion rate of X70 steel and iron in water-saturated supercritical CO ₂ mixed with SO ₂ . 2011 , 58, 286-294	83
1039	Modified dolomite in biomass gasification with simultaneous tar reformation and CO ₂ capture: effect of metal loading. 2011 , 19, 012009	4
1038	Kinetic Characteristics of Coal Char Combustion in Oxygen-Enriched Environment. 2011 ,	2
1037	Carbon-capture and storage benefits: NO _x reduction in O ₂ /CO ₂ pulverized fuel combustion. 2011 ,	
1036	Experimental study on the characteristics of coal combustion in oxygen-enriched environments. 2011 ,	
1035	Industrial scale oxy-fuel technology demonstration. 2011 , 54-76	3
1034	Multi period planning on grid-wide carbon sequestration retrofit in power generation sector with pinch analysis. 2011 ,	1
1033	Oxygen Enriched and Oxyfuel Combustion - Promising Trends for Low Carbon Future. 2011 , 145, 11-15	
1032	Oxidation of Fe-Bi alloys in CO ₂ -H ₂ O atmospheres. 2011 , 28, 297-301	7
1031	An Overview of Clean Coal Technologies II: Mitigating the Environmental Impacts by Continuous Improvement in Coal Combustion and CCS Technology. 2011 , 6, 118-125	4
1030	Methane Oxycombustion for Low CO ₂ Cycles: Blowoff Measurements and Analysis. 2011 , 133,	35
1029	Thermal Decomposition Characteristics of Calcium Based Organic Compounds under Carbon Dioxide Enriched Atmosphere through Thermogravimetric Analysis. 2012 , 516-517, 494-497	
1028	Behavior of Pulverized Coal Combustion in Air and in O ₂ /CO ₂ Condition. 2012 , 229-231, 2804-2808	
1027	Properties and Developments of Combustion and Gasification of Coal and Char in a CO ₂ -Rich and Recycled Flue Gases Atmosphere by Rapid Heating. 2012 , 2012, 1-11	2

1026	Online coal calorific value prediction from mutiband coal/air combustion radiation characteristics. 2012,	2
1025	Effect of Recirculation Gases on Soot Formed from Ethylene Pyrolysis. 2012, 184, 980-994	18
1024	SuperCritical Auto-Thermal Rankine (SCATR) System: High Efficiency Fossil Fuel Based Electricity With Intrinsic Carbon Separation. 2012,	
1023	Characteristic Analyses of Gasification and Combustion of Different Coal Samples in CO ₂ -Enriched and Recycled Flue Gases Atmosphere by Rapid Heating: Effects of O ₂ Concentration and H ₂ O{capital Beta}. 2012,	
1022	Premixed CH ₄ /O ₂ -enriched air combustion: Identification of thermal, chemical and aerodynamic effects. 2012, 395, 012005	
1021	Gasi?cation. 2012, 634-661	
1020	Effect of CO ₂ and steam gasification reactions on the oxy-combustion of pulverized coal char. 2012 , 159, 3437-3447	184
1019	Algal Technologies for Biological Capture and Utilization of CO ₂ Require Breakthroughs in Basic Research. 2012, 107-141	2
1018	Options for change in the Australian energy profile. 2012, 41, 841-50	3
1017	. 2012,	
1016	Pyrolysis and Combustion Behavior of Ternary Fuel Blends in Air and Oxy-Fuel Conditions by Using TGA-FTIR. 2012, 184, 1152-1163	5
1015	High CO ₂ permeation flux enabled by highly interconnected three-dimensional ionic channels in selective CO ₂ separation membranes. 2012, 5, 8310	108
1014	Use of synchrotron XANES and Cr-doped coal to further confirm the vaporization of organically bound Cr and the formation of chromium(VI) during coal oxy-fuel combustion. 2012, 46, 3567-73	37
1013	Reviews of Science for Science Librarians: Coal Science and Technology Research 1970-2010. 2012, 31, 146-163	1
1012	Mathematical Modeling of Air and Oxy-fuel Confined Swirling Flames on Two Extended Eddy-Dissipation Models. 2012, 51, 691-703	21
1011	Large Eddy Simulation of Pulverized Coal Jet Flame Ignition Using the Direct Quadrature Method of Moments. 2012, 26, 6686-6694	35
1010	Effect of CO ₂ Reactivity on NO _x Formation and Reduction Mechanisms in O ₂ /CO ₂ Combustion. 2012, 26, 938-951	29
1009	Use of an Fe-Based Residue from Alumina Production as an Oxygen Carrier in Chemical-Looping Combustion. 2012, 26, 1420-1431	67

1008	Modeling Energy Flow in an Integrated Pollutant Removal (IPR) System with CO ₂ Capture Integrated with Oxy-fuel Combustion. 2012 , 26, 6930-6937	2
1007	Scheme of O ₂ /CO ₂ Combustion with Partial CO ₂ Removal from Recycled Gas. Part 1: Superlow NO Emission. 2012 , 26, 829-834	3
1006	Fate of hazardous air pollutants in oxygen-fired coal combustion with different flue gas recycling. 2012 , 46, 4657-65	46
1005	Iron Transformation and Ash Fusibility during Coal Combustion in Air and O ₂ /CO ₂ Medium. 2012 , 26, 3150-3155	38
1004	Evaluation of Newly Designed Polygeneration System with CO ₂ Recycle. 2012 , 26, 1459-1469	35
1003	Explosions of Syngas/CO ₂ Mixtures in Oxygen-Enriched Air. 2012 , 51, 7671-7678	45
1002	Effect of Sodium on the Structure and Reactivity of the Chars Formed under N ₂ and CO ₂ Atmospheres. 2012 , 26, 185-192	26
1001	Soot Reactivity in Conventional Combustion and Oxy-fuel Combustion Environments. 2012 , 26, 5337-5344	19
1000	Carbonation Behavior and the Reaction Kinetic of a New Dry Potassium-Based Sorbent for CO ₂ Capture. 2012 , 51, 14361-14366	26
999	Effect of Chemical Reaction Mechanisms and NO _x Modeling on Air-Fired and Oxy-Fuel Combustion of Lignite in a 100-kW Furnace. 2012 , 26, 3329-3348	62
998	XANES Investigation on Sulfur Evolution during Victorian Brown Coal Char Gasification in Oxy-Fuel Combustion Mode. 2012 , 26, 4775-4782	7
997	Effects of flue gas recycle on oxy-coal power generation systems. 2012 , 97, 255-263	43
996	Pyrolysis and combustion characteristics of coals in oxyfuel combustion. 2012 , 97, 264-273	192
995	Multi-objective optimization of coal-fired electricity production with CO ₂ capture. 2012 , 98, 266-272	37
994	Evaluation of Oxy-coal Combustion Modelling at Semi-industrial Scale. 2012 , 23, 197-206	3
993	Deep-staged, oxygen enriched combustion of coal. 2012 , 101, 187-196	33
992	Fireside corrosion of superheaters: Effects of air and oxy-firing of coal and biomass. 2012 , 101, 62-73	80
991	Pyrrhotite deposition through thermal projection to simulate iron sulphide slagging in oxyfuel combustion. 2012 , 101, 197-204	11

990	Transported PDF Modeling of Nonpremixed Turbulent CO/H ₂ /N ₂ Jet Flames. 2012 , 184, 676-693	9
989	Commissioning of a 0.8 MWth CFBC for oxy-fuel combustion. 2012 , 7, 240-243	48
988	Thermoeconomic cost analysis of a 600 MWe oxy-combustion pulverized-coal-fired power plant. 2012 , 9, 469-483	29
987	Validation of spectral gas radiation models under oxyfuel conditions [Part C: Validation of simplified models. 2012 , 11, 34-51	26
986	Impurity effects on the oxy-coal combustion power generation system. 2012 , 11, 262-270	11
985	Laminar burning velocities and flame characteristics of CO/H ₂ /O ₂ /N ₂ mixtures. 2012 , 37, 19158-19167	72
984	A simple enthalpy-based lattice Boltzmann scheme for complicated thermal systems. 2012 , 231, 8278-8294	14
983	An EU initiative for future generation of IGCC power plants using hydrogen-rich syngas: Simulation results for the baseline configuration. 2012 , 99, 280-290	41
982	Ignition characteristics of single coal particles from three different ranks in O ₂ /N ₂ and O ₂ /CO ₂ atmospheres. 2012 , 159, 3554-3568	165
981	Kinetics of coal oxy-combustion by means of different experimental techniques. 2012 , 102, 751-759	35
980	Thermal decomposition kinetics of Brazilian limestones: effect of CO ₂ partial pressure. 2012 , 33, 1175-82	15
979	Simulation of Oxy-Coal Combustion in a 100 kWth Test Facility Using RANS and LES: A Validation Study. 2012 , 26, 4783-4798	89
978	Pinch based approach to estimate CO ₂ capture and storage retrofit and compensatory renewable power for South Korean electricity sector. 2012 , 29, 1163-1170	11
977	Effects of Tetrabutyl-(ammonium/phosphonium) Salts on Clathrate Hydrate Capture of CO ₂ from Simulated Flue Gas. 2012 , 26, 2518-2527	82
976	Investigation on the NO Reduction with Coal Char and High Concentration CO during Oxy-fuel Combustion. 2012 , 26, 7367-7377	65
975	Environmental sustainability and climate change mitigation—CCS technology, better having it than not having it at all!. 2012 , 31, 642-649	27
974	Oxygen separation through U-shaped hollow fiber membrane using pure CO ₂ as sweep gas. 2012 , 58, 2856-2864	37
973	Experimental and numerical study of pulverized bituminous coal ignition characteristics in O ₂ /N ₂ and O ₂ /CO ₂ atmospheres. 2012 , 7, S195-S200	6

972	A study of oxy-coal combustion with steam addition and biomass blending by thermogravimetric analysis. 2012 , 109, 49-55	46
971	Effect of Fe on NO release during char combustion in air and O ₂ /CO ₂ . 2012 , 6, 200-206	
970	Effects of gas and particle emissions on wall radiative heat flux in oxy-fuel combustion. 2012 , 26, 1633-1641	14
969	One end-dead perovskite hollow fiber membranes for high-purity oxygen production from ambient air. 2012 , 183, 473-482	11
968	Experimental study on the effect of different CO ₂ concentrations on soot and gas products from ethylene thermal decomposition. 2012 , 91, 307-312	25
967	Flame structure investigations of oxy-fuel combustion. 2012 , 93, 52-58	24
966	Study of ash deposition during coal combustion under oxyfuel conditions. 2012 , 92, 308-317	55
965	Air and oxy-fuel combustion behaviour of petcoke/lignite blends. 2012 , 92, 137-144	38
964	Measurement of nitrogen evolution in a staged oxy-combustion coal flame. 2012 , 93, 298-304	18
963	Experimental studies of flame extinction in a swirl-stabilized oxy-fuel burner. 2012 , 93, 75-81	9
962	YBaCo ₄ O ₇ +Borbenet for oxygen-enriched carbon dioxide stream production at a low-temperature. 2012 , 94, 191-196	20
961	Numerical investigation of NO emissions from an entrained flow reactor under oxy-coal conditions. 2012 , 93, 53-64	13
960	Characterization of flue gas in oxy-coal combustion processes for CO ₂ capture. 2012 , 90, 113-121	116
959	Oxy-fuel combustion kinetics and morphology of coal chars obtained in N ₂ and CO ₂ atmospheres in an entrained flow reactor. 2012 , 91, 67-74	88
958	Effects of biomass particle size during cofiring under air-fired and oxyfuel conditions. 2012 , 93, 606-613	43
957	On the use of single-film models to describe the oxy-fuel combustion of pulverized coal char. 2012 , 93, 675-679	59
956	Gasification of a pulverized sub-bituminous coal in CO ₂ at atmospheric pressure in an entrained flow reactor. 2012 , 159, 385-395	46
955	Combustion behavior of single particles from three different coal ranks and from sugar cane bagasse in O ₂ /N ₂ and O ₂ /CO ₂ atmospheres. 2012 , 159, 1253-1271	183

954	Computational fluid dynamic simulation of oxyfuel combustion in gas-fired water tube boilers. 2012 , 56, 152-165		29
953	Kinetics of gasification of coal, biomass and their blends in air (N ₂ /O ₂) and different oxy-fuel (O ₂ /CO ₂) atmospheres. 2012 , 37, 665-672		51
952	Oxy-fuel combustion of coal and biomass blends. 2012 , 41, 429-435		123
951	Thermogravimetric analyses of combustion of lignocellulosic materials in N ₂ /O ₂ and CO ₂ /O ₂ atmospheres. 2012 , 107, 444-50		33
950	Mitigating the anthropogenic global warming in the electric power industry. 2012 , 16, 2747-2761		45
949	Characterization of calcium carbonate sorbent particle in furnace environment. 2012 , 429, 266-71		9
948	Silver-molten carbonate composite as a new high-flux membrane for electrochemical separation of CO ₂ from flue gas. 2012 , 401-402, 190-194		70
947	The environmental impact and risk assessment of CO ₂ capture, transport and storage [An evaluation of the knowledge base. <i>Progress in Energy and Combustion Science</i> , 2012 , 38, 62-86	33.6	124
946	Oxy-fuel combustion of pulverized coal: Characterization, fundamentals, stabilization and CFD modeling. <i>Progress in Energy and Combustion Science</i> , 2012 , 38, 156-214	33.6	690
945	Recent developments in membrane-based technologies for CO ₂ capture. <i>Progress in Energy and Combustion Science</i> , 2012 , 38, 419-448	33.6	366
944	A new EPO classification scheme for climate change mitigation technologies. 2012 , 34, 106-111		60
943	TGBTIR analysis of oxidation kinetics of some solid fuels under oxy-fuel conditions. 2013 , 114, 483-489		19
942	Kinetics of coal and char oxycombustion studied by TGBTIR. 2013 , 113, 371-378		32
941	Correlation of turbulent burning velocity for syngas/air mixtures at high pressure up to 1.0MPa. 2013 , 50, 90-96		26
940	Mixing and segregation of binary oxygen carrier mixtures in a cold flow model of a chemical looping combustor. 2013 , 223, 772-784		18
939	CO ₂ Capture by CaO-Based Sorbents and Sorption Enhanced Reaction Systems. 2013 , 603-625		0
938	Computational Fluid Dynamics Modeling on the Air-Firing and Oxy-fuel Combustion of Dried Victorian Brown Coal. 2013 , 27, 4258-4269		49
937	Experimental and modeling study of single coal particle combustion in O ₂ /N ₂ and Oxy-fuel (O ₂ /CO ₂) atmospheres. 2013 , 160, 2559-2572		114

936	Flow field measurements of pulverized coal combustion using optical diagnostic techniques. 2013 , 54, 1	30
935	The impact of combustion characteristics and flame structure on soot formation in oxy-enhanced and oxy-fuel diffusion flames. 2013 , 56, 1618-1628	16
934	Experimental study on interaction and excess heat release under oxy-fuel combustion of blended coals. 2013 , 30, 337-344	3
933	Influence of SO ₂ on the phase structure, oxygen permeation and microstructure of K ₂ NiF ₄ -type hollow fiber membranes. 2013 , 217, 34-40	8
932	Characterization of a primary-swirled, high oxygen participation coal flame: Flame temperature, emissivity, NO, and burnout measurements. 2013 , 34, 2779-2786	3
931	Ignition of co-axial turbulent diffusion oxy-coal jet flames: Experiments and simulations collaboration. 2013 , 160, 1112-1128	54
930	Predicting Behavior of Coal Ignition in Oxy-fuel Combustion. 2013 , 37, 1423-1434	13
929	Integration options for novel chemical looping air separation (ICLAS) process for oxygen production in oxy-fuel coal fired power plants. 2013 , 107, 356-370	66
928	New morphological Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O ₃ hollow fibre membranes with high oxygen permeation fluxes. 2013 , 39, 431-437	21
927	Thermogravimetric study of the combustion of Tetraselmis suecica microalgae and its blend with a Victorian brown coal in O ₂ /N ₂ and O ₂ /CO ₂ atmospheres. 2013 , 150, 15-27	82
926	Opportunities and challenges in carbon dioxide capture. 2013 , 1, 69-87	298
925	Measurement of the instantaneous flame front structure of syngas turbulent premixed flames at high pressure. 2013 , 160, 2434-2441	50
924	A comparison of soot, fine particle and sodium emissions for air- and oxy-coal flames, with recycled flue gases of various compositions. 2013 , 34, 3453-3461	19
923	Pyrolysis of Switchgrass (<i>Panicum virgatum</i> L.) at Low Temperatures within N ₂ and CO ₂ Environments: Product Yield Study. 2013 , 1, 198-204	50
922	Effect of CO ₂ on the Methane Combustion over a Perovskite Catalyst at High Pressure. 2013 , 27, 6017-6023	8
921	Oxy-fuel combustion for CO ₂ capture using a CO ₂ -tolerant oxygen transporting membrane. 2013 , 59, 3856-3862	13
920	Modelling the Fate of Sulphur During Pulverized Coal Combustion under Conventional and Oxy-fuel Conditions. 2013 , 37, 1377-1388	25
919	The Effect of Coal Composition on Ignition and Flame Stability in Coaxial Oxy-Fuel Turbulent Diffusion Flames. 2013 , 27, 4935-4945	17

918	Process simulation of oxy-fuel combustion for a 300MW pulverized coal-fired power plant using Aspen Plus. 2013 , 76, 581-587	50
917	Assessment of combustion and heat transfer in Youngdong 100 MWe retrofit boiler for demonstration of oxy-coal combustion. 2013 , 17, 250-258	7
916	First spectroscopic identification of pyrocarbonate for high CO ₂ flux membranes containing highly interconnected three dimensional ionic channels. 2013 , 15, 13147-52	31
915	Kinetics of CO ₂ gasification for coals of different ranks under oxy-combustion conditions. 2013 , 160, 411-416	43
914	A molecular dynamics and grand canonical Monte Carlo study of silicalite-1 as a membrane material for energy-related gas separations. 2013 , 20, 235-247	4
913	Oxy-fuel combustion characteristics and kinetic parameters of lignite coal from thermo-gravimetric data. 2013 , 553, 54-59	44
912	Peak and off-peak operations of the air separation unit in oxy-coal combustion power generation systems. 2013 , 112, 747-754	56
911	Oxy-fuel combustion of millimeter-sized coal char: Particle temperatures and NO formation. 2013 , 106, 72-78	17
910	Numerical investigation of pulverized coal jet flame characteristics under different oxy-fuel conditions. 2013 , 58, 654-662	15
909	Role of exhaust gas recycle on submicrometer particle formation during oxy-coal combustion. 2013 , 34, 3479-3487	14
908	Impact of oxy-fuel combustion on fly ash transformations and resulting corrosive behavior of alloys 310 and 617. 2013 , 37, 1462-1470	10
907	Thermogravimetric analysis of limestones with different contents of MgO and microstructural characterization in oxy-combustion. 2013 , 561, 19-25	20
906	Pursuing the Oxy-fuel Light-/heavy Oil Retrofit Route in Oil Refineries - A Small Scale Retrofit Study. 2013 , 37, 7231-7248	5
905	Realization of oxyfuel combustion for near zero emission power generation. 2013 , 34, 2111-2130	55
904	SO ₂ and NO _x emissions from sludge combustion in a CO ₂ /O ₂ atmosphere. 2013 , 109, 178-183	58
903	A comparative evaluation of gray and non-gray radiation modeling strategies in oxy-coal combustion simulations. 2013 , 54, 422-432	37
902	Modeling of oxygen permeation through a LSCF ion transport membrane. 2013 , 76, 1-10	19
901	An assessment of radiation modeling strategies in simulations of laminar to transitional, oxy-methane, diffusion flames. 2013 , 61, 507-518	19

900	Elucidating the mechanism of Cr(VI) formation upon the interaction with metal oxides during coal oxy-fuel combustion. 2013 , 261, 260-8	37
899	Calcium looping for CO ₂ capture from a lignite fired power plant. 2013 , 113, 826-836	65
898	Impact of sulphur contamination on the oxygen transport mechanism through Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O ₃ —Relevant issues in the development of capillary and hollow fibre membrane geometry.. 2013 , 428, 123-130	15
897	Arsenic emissions and speciation in the oxy-fuel fly ash collected from lab-scale drop-tube furnace. 2013 , 34, 2877-2884	25
896	Evaluation of the use of different coals in Chemical Looping Combustion using a bauxite waste as oxygen carrier. 2013 , 106, 814-826	60
895	Heterogeneous nucleation activation in a condensational scrubber for particulate abatement. 2013 , 107, 113-118	18
894	Investigation on water vapor effect on direct sulfation during wet-recycle oxy-coal combustion. 2013 , 108, 121-127	38
893	PM ₁₀ formation during the combustion of N ₂ -char and CO ₂ -char of Chinese coals. 2013 , 34, 2383-2392	27
892	Thermodynamic and economic analysis of the different variants of a coal-fired, 460MW power plant using oxy-combustion technology. 2013 , 76, 109-120	53
891	Combustion and heat transfer characteristics of oxy-coal combustion in a 100 MWe front-wall-fired furnace. 2013 , 106, 718-729	37
890	Utilization of carbon dioxide from coal-based power plants as a heat transfer fluid for electricity generation in enhanced geothermal systems (EGS). 2013 , 57, 505-512	27
889	Kinetic characteristics of pulverized coal combustion in the two-phase flow. 2013 , 55, 585-593	8
888	The influence of gasification reactions on char consumption under oxy-combustion conditions: Effects of particle trajectory and conversion. 2013 , 34, 3471-3478	21
887	Study of design parameters affecting the performance of CO ₂ purification units in oxy-fuel combustion. 2013 , 12, 441-449	21
886	Comparison of particulate formation and ash deposition under oxy-fuel and conventional pulverized coal combustions. 2013 , 106, 544-551	79
885	Prediction of distribution of trace elements under Oxy-fuel combustion condition using Victorian brown coals. 2013 , 114, 135-142	46
884	MILD oxy-combustion of gaseous fuels in a laboratory-scale furnace. 2013 , 160, 933-946	156
883	Oxy-fuel combustion effects on trace metals behaviour by equilibrium calculations. 2013 , 108, 474-483	34

882	Reactivities of coals and synthetic model coal under oxy-fuel conditions. 2013 , 553, 8-15		44
881	Effects of Stefan Flow on Ignition and Heat Transfer of a Char Particle in O ₂ /CO ₂ Atmospheres. 2013 , 27, 3454-3459		7
880	Capturing CO ₂ in flue gas from fossil fuel-fired power plants using dry regenerable alkali metal-based sorbent. <i>Progress in Energy and Combustion Science</i> , 2013 , 39, 515-534	33.6	151
879	Effect of Exposure Time on the Corrosion Rates of X70 Steel in Supercritical CO ₂ /SO ₂ /O ₂ /H ₂ O Environments. 2013 , 69, 251-258		31
878	A comparison of sulfur and chlorine gas species in pulverized-coal, air- and oxy-combustion. 2013 , 160, 2529-2539		13
877	Oxy-fuel combustion: Laboratory experiments and pilot scale tests. 2013 , 104, 452-461		13
876	Thermogravimetric characteristics and combustion emissions of rubbers and polyvinyl chloride in N ₂ /O ₂ and CO ₂ /O ₂ atmospheres. 2013 , 104, 508-514		9
875	Oxyfuel combustion of lignite in a non-stoichiometric operating two burner arrangement. 2013 , 104, 398-408		6
874	Effect of flue gas impurities on the performance of a chemical looping based air separation process for oxy-fuel combustion. 2013 , 103, 932-942		48
873	Lifted flame behavior of a non-premixed oxy-methane jet in a lab-scale slot burner. 2013 , 103, 862-868		20
872	Experimental study of SO ₂ and NO _x emissions in fluidized bed oxy-fuel combustion. 2013 , 106, 587-594		82
871	SO ₂ Emission from Municipal Sewage Sludge Cocombustion with Bituminous Coal Under O ₂ /CO ₂ Atmosphere Versus O ₂ /N ₂ Atmosphere. 2013 , 27, 7067-7071		21
870	Recent Development in Oxy-Combustion Technology and Its Applications to Gas Turbine Combustors and ITM Reactors. 2013 , 27, 2-19		79
869	Effect of Water Vapor on Indirect Sulfation during Oxy-fuel Combustion. 2013 , 27, 1506-1512		29
868	Physical and Chemical Effects of CO ₂ and H ₂ O Additives on Counterflow Diffusion Flame Burning Methane. 2013 , 27, 7602-7611		53
867	Numerical Investigation of a Chemically Reacting Carbon Particle Moving in a Hot O ₂ /CO ₂ Atmosphere. 2013 , 52, 5815-5824		32
866	NO Emissions from Anthracite Oxy-Firing in a Fluidized-Bed Combustor: Effect of the Temperature, Limestone, and O ₂ . 2013 , 27, 7619-7627		27
865	Effect of high CO ₂ concentration on char formation through mineral reaction during biomass pyrolysis. 2013 , 34, 2339-2345		12

864	Exergy Analysis and Heat Integration of a Coal-Based Oxy-combustion Power Plant. 2013 , 27, 7138-7149	27
863	Experimental and Numerical Study on Laminar Flame Characteristics of Methane Oxy-fuel Mixtures Highly Diluted with CO ₂ . 2013 , 27, 6231-6237	124
862	Condensation Behavior of Heavy Metals during Oxy-fuel Combustion: Deposition, Species Distribution, and Their Particle Characteristics. 2013 , 27, 5640-5652	17
861	Soot Volume Fractions in Volatile Matter Envelope Flames of Bituminous Coal Particles in Air and Oxy-Fuel Combustion. 2013 ,	4
860	Heat Transfer Characteristics of O ₂ /CO ₂ Pulverized Coal Boiler Furnace. 2013 , 401-403, 375-378	
859	Experimental Study on the Oxide Scale of Steel Slab under Oxygen-Enrichment Combustion. 2013 , 395-396, 327-330	
858	Measurements of Gasification Characteristics of Coal and Char in CO ₂ -Rich Gas Flow by TG-DTA. 2013 , 2013, 1-15	1
857	The Effect of CO ₂ on Pyrite Transformation. 2013 , 724-725, 1301-1305	6
856	The Ignition Delay, Laminar Flame Speed and Adiabatic Temperature Characteristics of n-Pentane, n-Hexane and n-Heptane Under O ₂ /CO ₂ Atmosphere. 2013 , 57-63	
855	Kinetic analysis on thermo-gravimetric profiles of pulverised coal pyrolysis and gasification under different oxy-fuel environments. 2013 , 91, 1936-1944	6
854	A new weighted-sum-of-gray-gases model for oxy-combustion scenarios. 2013 , 37, 1752-1763	27
853	Oxy-fired fluidized bed combustion: technology, prospects and new developments. 2013 , 867-894	3
852	The effect of Ca on distribution of nitrogen species during coal pyrolysis in N ₂ , CO ₂ and Ar atmospheres. 2013 , 8, 567-577	3
851	Modeling of flame characteristics under O ₂ /CO ₂ atmosphere by detailed chemical kinetics. 2013 , 3, 281-290	1
850	Combustion Characteristics of Biomass Ash and Lignite Blend Under Oxy-Fuel Conditions. 2013 ,	3
849	Natural gas: Reserves, growth and costs. 2013 , 57-80	
848	- Iron Production. 2013 , 566-579	
847	From Detailed Description of Chemical Reacting Carbon Particles to Subgrid Models for CFD. 2013 , 68, 1007-1026	31

846	Emissions from Oxyfueled or High-Exhaust Gas Recirculation Turbines. 209-234	3
845	Study of Combustion Characteristics of a Quasi Internal Combustion Rankine Cycle Engine. 2013 ,	14
844	OxyFuel Combustion in the LabScale and LargeScale FuelFired Furnaces for Thermal Power Generations. 2013 ,	2
843	Carbon dioxide separation from flue gases: a technological review emphasizing reduction in greenhouse gas emissions. 2014 , 2014, 828131	202
842	Study of the Combustion and Emission Characteristics of a Quasi ICRC Engine Under Different Engine Loads. 2014 ,	14
841	Pyrolysis of superfine pulverized coal. Part 1. Mechanisms of methane formation. 2014 , 87, 1027-1038	92
840	Simulation and comparative exergy analyses of oxy-steam combustion and O ₂ /CO ₂ recycled combustion pulverized-coal-fired power plants. 2014 , 27, 267-278	32
839	Fossil Energy and Materials. 2014 , 11-53	
838	Modeling CO ₂ Chemical Effects on CO Formation in Oxy-Fuel Diffusion Flames Using Detailed, Quasi-Global, and Global Reaction Mechanisms. 2014 , 186, 829-848	17
837	Hybrid Power Generation Plant for CO ₂ Capture. 2014 , 136,	
836	Carbon Capture and Storage Development Trends from a Techno-Paradigm Perspective. 2014 , 7, 5221-5250	19
835	CFD modelling of air and oxy-coal combustion. 2014 , 24, 825-844	6
834	High pressure conversion of NO _x and Hg and their capture as aqueous condensates in a laboratory piston-compressor simulating oxy-fuel CO ₂ compression. 2014 , 29, 209-220	8
833	A hierarchical Cartesian method for conjugated heat transfer. 2014 ,	1
832	Comparison Between Combustion Behavior of Solid Fuels and Their Chars Under Oxy-Fuel Conditions. 2014 , 186, 398-408	6
831	Performance of superheater materials in simulated oxyfuel combustion conditions. 2014 , 65, 141-148	4
830	Delay of biomass pyrolysis by gasparticle interaction. 2014 , 110, 88-99	15
829	Oxy-combustion Studies Into the Co Firing of Coal and Biomass Blends: Effects on Heat Transfer, Gas and Ash Compositions. 2014 , 63, 440-452	16

828	Assessment of the integration of CO ₂ capture technology into oil&and extraction operations. 2014 , 5, 323-332	1
827	Characteristics of Oxyfuel and AirFuel Combustion in an Industrial Water Tube Boiler. 2014 , 35, 1394-1404	9
826	Development of 2nd Generation Oxyfuel CFB Technology Small Scale Combustion Experiments and Model Development Under High Oxygen Concentrations. 2014 , 63, 372-385	18
825	Oxy-fuel fluidized bed combustion using Victorian brown coal: An experimental investigation. 2014 , 117, 23-29	37
824	Effect of steam reforming on methane-fueled chemical looping combustion with Cu-based oxygen carrier. 2014 , 39, 9158-9168	14
823	A high efficiency oxyfuel internal combustion engine cycle with water direct injection for waste heat recovery. 2014 , 70, 110-120	38
822	Effect of kaolin additive on PM _{2.5} reduction during pulverized coal combustion: Importance of sodium and its occurrence in coal. 2014 , 114, 434-444	84
821	Oxyfiring with CO ₂ capture to meet low-carbon fuel standards for unconventional fuels from Utah. 2014 , 22, 189-199	3
820	A study on the effects of catalysts on pyrolysis and combustion characteristics of Turkish lignite in oxy-fuel conditions. 2014 , 115, 841-849	42
819	Flame front structure of turbulent premixed flames of syngas oxyfuel mixtures. 2014 , 39, 5176-5185	39
818	Surface modified silver-carbonate mixed conducting membranes for high flux CO ₂ separation with enhanced stability. 2014 , 453, 36-41	30
817	Numerical research on the homogeneous/heterogeneous ignition process of pulverized coal in oxy-fuel combustion. 2014 , 73, 207-216	18
816	LES and RANS modeling of pulverized coal combustion in swirl burner for air and oxy-combustion technologies. 2014 , 66, 732-743	44
815	Simulations of pulverized coal oxy-combustion in swirl burner using RANS and LES methods. 2014 , 119, 130-135	17
814	NO emission characteristics of superfine pulverized coal combustion in the O ₂ /CO ₂ atmosphere. 2014 , 77, 349-355	37
813	Effect of H ₂ O and SO ₂ on the distribution characteristics of trace elements in particulate matter at high temperature under oxy-fuel combustion. 2014 , 23, 51-60	33
812	The potential of on-line optical flow measurement in the control and monitoring of pilot-scale oxy-coal flames. 2014 , 55, 1	1
811	Considerations on providing the energy needs using exclusively renewable sources: Energiewende in Germany. 2014 , 35, 109-125	44

810	Flame pattern, temperatures and stability limits of pulverized oxy-coal combustion. 2014 , 115, 507-520	23
809	A study of combustion characteristics of pulverized coal in O ₂ /H ₂ O atmosphere. 2014 , 115, 312-320	56
808	Study on stretch extinction limits of CH ₄ /CO ₂ versus high temperature O ₂ /CO ₂ counterflow non-premixed flames. 2014 , 161, 1526-1536	33
807	Development of a Cu/Mg-Based Oxygen Carrier with SiO ₂ as a Support for Chemical Looping Air Separation. 2014 , 28, 163-172	51
806	Comparison of Particle Size Evolution during Pulverized Coal Combustion in O ₂ /CO ₂ and O ₂ /N ₂ Atmospheres. 2014 , 28, 136-145	15
805	Evaluation of Copper/Aluminum Oxides as Sorbents for High-Temperature Air Separation. 2014 , 28, 319-328	7
804	Coal combustion characteristics on an oxy-fuel circulating fluidized bed combustor with warm flue gas recycle. 2014 , 127, 47-51	108
803	Carbon capture and storage update. 2014 , 7, 130-189	1404
802	Tailoring hierarchically structured SiO ₂ spheres for high pressure CO ₂ adsorption. 2014 , 2, 13624-13634	10
801	Combustion Characteristics of Coal and Coke Under High Oxygen Concentration Oxy-Fuel CFBC Conditions. 2014 , 186, 389-397	6
800	Analysis on Chemical Reaction Kinetics of CuO/SiO ₂ Oxygen Carriers for Chemical Looping Air Separation. 2014 , 28, 173-182	50
799	Monitoring of Oxygen Content in the Flue Gas at a Coal-Fired Power Plant Using Cloud Modeling Techniques. 2014 , 63, 953-963	9
798	Oxyfuel CO ₂ compression: The gas phase reaction of elemental mercury and NO _x at high pressure and absorption into nitric acid. 2014 , 29, 125-134	10
797	Emission of Organically Bound Elements during the Pyrolysis and Char Oxidation of Lignites in Air and Oxyfuel Combustion Mode. 2014 , 28, 4167-4176	8
796	Effect of the Devolatilization Process on PM ₁₀ Formation during Oxy-fuel Combustion of a Typical Bituminous Coal. 2014 , 28, 5682-5689	16
795	Dynamic modeling and control for pulverized-coal-fired oxy-combustion boiler island. 2014 , 30, 97-117	28
794	Study of Oxy-fuel Coal Combustion in a 0.1 MWth Circulating Fluidized Bed at High Oxygen Concentrations. 2014 , 28, 1249-1254	21
793	Planning of carbon capture storage deployment using process graph approach. 2014 , 76, 641-651	28

792	Bench-scale demonstration of CO ₂ capture with electrochemically-mediated amine regeneration. 2014 , 4, 5906	31
791	Probing the potential of polyester for CO ₂ capture. 2014 , 26, 1423-7	12
790	An overview of current status of carbon dioxide capture and storage technologies. 2014 , 39, 426-443	1633
789	Novel Temperature-Controlled Ash Deposition Probe System and Its Application to Oxy-coal Combustion with 50% Inlet O ₂ . 2014 , 28, 146-154	46
788	NO Formation during Oxy-Fuel Combustion of Coal and Biomass Chars. 2014 , 28, 4684-4693	25
787	Experimental Investigation of Carbonate Formation Characteristics during Coal and Biomass Pyrolysis under CO ₂ . 2014 , 28, 4795-4800	5
786	The role of steam in silica vaporization and ultrafine particulate matter formation during wet oxy-coal combustion. 2014 , 133, 144-151	38
785	Experimental study and kinetic modeling of pulverized coal devolatilization under air and oxycombustion conditions at a high heating rate. 2014 , 128, 183-190	16
784	Effect of SO ₂ on oxidation of metallic materials in CO ₂ /H ₂ O-rich gases relevant to oxyfuel environments. 2014 , 65, 121-131	36
783	Dramatically Enhanced Oxygen Fluxes in Fluorite-Rich Dual-Phase Membrane by Surface Modification. 2014 , 26, 4387-4394	43
782	Investigation of the Initial Stage of Ash Deposition during Oxy-Fuel Combustion in a Bench-Scale Fluidized Bed Combustor with Limestone Addition. 2014 , 28, 3623-3631	19
781	Dynamic simulation for mode switching strategy in a conceptual 600 MWe oxy-combustion pulverized-coal-fired boiler. 2014 , 137, 135-144	24
780	An experimental study and numerical modeling of combusting two coal chars in a drop-tube reactor: A comparison between N ₂ /O ₂ , CO ₂ /O ₂ , and N ₂ /CO ₂ /O ₂ atmospheres. 2014 , 124, 190-201	30
779	Air-Staged Combustion Characteristics of Pulverized Coal under High Temperature and Strong Reducing Atmosphere Conditions. 2014 , 28, 1820-1828	41
778	Thermo economic evaluation of oxy fuel combustion cycle in Kazeroon power plant considering enhanced oil recovery revenues. 2014 , 21, 1025-1033	
777	A review of metallic radiation recuperators for thermal exhaust heat recovery. 2014 , 28, 1099-1111	6
776	Enhancing the overall efficiency of a lignite-fired oxyfuel power plant with CFB boiler and membrane-based air separation unit. 2014 , 80, 20-31	29
775	Development and characterization of Ba _{1-x} Sr _x Co _{0.8} Fe _{0.2} O _{3-δ} perovskite for oxygen production in oxyfuel combustion system. 2014 , 255, 462-470	17

774	Effects of Oxygen Staging and Excess Oxygen on O ₂ /CO ₂ Combustion with a High Oxygen Concentration in a Circulating Fluidized Bed. 2014 , 28, 2069-2075	28
773	Non-steady state carburisation of martensitic 9%Cr steels in CO ₂ rich gases at 550°C. 2014 , 88, 161-169	48
772	Numerical Modeling of Oxy-fuel Combustion in a Refractory-Lined Down Flame Furnace. 2014 , 28, 155-162	8
771	Experiences from Oxy-fuel Combustion of Bituminous Coal in a 150 kWth Circulating Fluidized Bed Pilot Facility. 2014 , 51, 24-30	20
770	Targeting for optimal grid-wide deployment of carbon capture and storage (CCS) technology. 2014 , 92, 835-848	37
769	Evaluation of the combustion behaviour and ash characteristics of biomass waste derived fuels, pine and coal in a drop tube furnace. 2014 , 117, 809-824	66
768	Coal combustion under Calcium Looping Process conditions. 2014 , 127, 38-46	14
767	Oxyfuel technology: NO reduction during oxy-oil shale combustion. 2014 , 128, 155-161	11
766	Efficiency analysis of a hard-coal-fired supercritical power plant with a four-end high-temperature membrane for air separation. 2014 , 64, 109-119	30
765	Analysis of cumulative energy consumption in an oxy-fuel combustion power plant integrated with a CO ₂ processing unit. 2014 , 87, 1305-1314	15
764	Emission performance of type-1 pulverized coal flames operating under oxy-fired conditions. 2014 , 64, 430-440	12
763	Dynamic modelling of a CO ₂ capture and purification unit for an oxy-coal-fired power plant. 2014 , 22, 111-122	19
762	Investigation of laminar flame speeds of CH ₄ /O ₂ /CO ₂ mixtures at ordinary pressure and kinetic simulation. 2014 , 70, 626-634	64
761	Oxy-fuel combustion characteristics of pulverized-coal in a drop tube furnace. 2014 , 115, 452-460	48
760	Targeting for carbon sequestration retrofit planning in the power generation sector for multi-period problems. 2014 , 113, 477-487	37
759	On burnout performance of a rocket-engine-based incinerator devised for high burning rate of solid particles. 2014 , 117, 478-487	10
758	The influence of the size of the CHP (combined heat and power) system integrated with a biomass fueled gas generator and piston engine on the thermodynamic and economic effectiveness of electricity and heat generation. 2014 , 67, 328-340	58
757	Near-field local flame extinction of oxy-syngas non-premixed jet flames: A DNS study. 2014 , 130, 189-196	8

756	A comprehensive evaluation of the influence of air combustion and oxy-fuel combustion flue gas constituents on Hg(0) re-emission in WFGD systems. 2014 , 276, 157-63	13
755	Experimental Analysis of Minimum Ignition Temperature of Coal Dust Layers in Oxy-fuel Combustion Atmospheres. 2014 , 84, 330-339	5
754	Novel Pre-Combustion Power Production: Membrane Reactors. 2015 , 53-80	
753	Chemical Looping Combustion for Power Production. 2015 , 117-174	3
752	Oxyfuel Combustion for CO2 Capture. 2015 , 1-29	1
751	A numerical method for multiphysics simulations based on hierarchical Cartesian grids. 2015 , 10, JFST0002-JFSI0002	
750	Fundamental and Technical Challenges for a Compatible Design Scheme of Oxyfuel Combustion Technology. 2015 , 1, 139-149	30
749	Effect of dilution of fuel in CO2 on the conversion of NH3 to NOx during oxy-fuel combustion. 2015 , 16, 820-829	0
748	SO3 formation under oxy-CFB combustion conditions. 2015 , 43, 172-178	19
747	Effects of Flue Gas Addition on the Premixed Oxy-methane Flames in Atmospheric Condition. 2015 , 75, 3054-3059	10
746	Effect of Five Different Additives on the Sintering Behavior of Coal Ash Rich in Sodium under an Oxy-fuel Combustion Atmosphere. 2015 , 29, 5519-5533	23
745	Effect of secondary air mass flow rate on the airflow and combustion characteristics and NOx formation of the low-volatile coal-fired swirl burner. 2015 , 10, 858-875	8
744	Experimental and numerical analysis of oxy-fuel combustion in a porous plate reactor. 2015 , 39, 1229-1240	10
743	A Carbon-Air Battery for High Power Generation. 2015 , 127, 3793-3796	7
742	Development of a Steel-Slag-Based, Iron-Functionalized Sorbent for an Autothermal Carbon Dioxide Capture Process. 2015 , 8, 3839-46	21
741	DETERMINATION OF THE KINETIC PARAMETERS OF OXY-FUEL COMBUSTION OF COAL WITH A HIGH ASH CONTENT. 2015 , 32, 211-223	4
740	Predicting Radiative Heat Transfer in Oxy-Methane Flame Simulations: An Examination of Its Sensitivities to Chemistry and Radiative Property Models. 2015 , 2015, 1-20	7
739	. 2015 ,	5

738	Nanoparticle prepared mechanically stable hierarchically porous silica granulates and their application as oxygen carrier supports for chemical looping combustion. 2015 , 3, 11863-11873	7
737	Experimental analysis of oxygen-methane combustion inside a gas turbine reactor under various operating conditions. 2015 , 86, 105-114	31
736	Significance of gasification during oxy-fuel combustion of a lignite char in a fluidised bed using a fast UEGO sensor. 2015 , 144, 423-438	27
735	Self-optimizing control structure design in oxy-fuel circulating fluidized bed combustion. 2015 , 43, 93-107	13
734	Interactions of HCN with NO in a CO ₂ Atmosphere Representative of Oxy-fuel Combustion Conditions. 2015 , 29, 6593-6597	13
733	Evolution of NO _x Precursors during Rapid Pyrolysis of Coals in CO ₂ Atmosphere. 2015 , 29, 7474-7482	17
732	The Investigation of NO _x Formation and Reduction during O ₂ /CO ₂ Combustion of Raw Coal and Coal Char. 2015 , 66, 69-72	8
731	Ignition behaviors of pulverized coal particles in O ₂ /N ₂ and O ₂ /H ₂ O mixtures in a drop tube furnace using flame monitoring techniques. 2015 , 35, 3629-3636	56
730	Recent development on the uses of alternative fuels in cement manufacturing process. 2015 , 145, 84-99	104
729	The chemical role of CO ₂ in pyrite thermal decomposition. 2015 , 35, 3637-3644	44
728	Ash aerosol formation from oxy-coal combustion and its relation to ash deposit chemistry. 2015 , 35, 2373-2380	38
727	Radiative intensity, no emissions, and burnout for oxygen enriched biomass combustion. 2015 , 35, 2777-2784	5
726	CO ₂ and H ₂ O effect on propane auto-ignition delay times under mild combustion operative conditions. 2015 , 162, 533-543	76
725	The experimental study on nitrogen oxides and SO ₂ emission for oxy-fuel circulation fluidized bed combustion with high oxygen concentration. 2015 , 146, 81-87	20
724	Impact of oxy-fuel combustion gases on mercury retention in activated carbons from a macroalgae waste: effect of water. 2015 , 125, 191-7	13
723	Computational modelling of co-firing of biomass with coal under oxy-fuel condition in a small scale furnace. 2015 , 143, 455-466	87
722	Effect of carbon dioxide on the high temperature transformation of siderite under low oxygen conditions. 2015 , 148, 73-78	3
721	Effect of Compression Ratio on Internal Combustion Rankine Cycle Based on Simulations. 2015 , 129-138	0

720	Mechanism and Kinetics of CO ₂ Adsorption on Surface Bonded Amines. 2015 , 119, 4126-4135	91
719	Dynamic Behaviors in Methane MILD and Oxy-Fuel Combustion. Chemical Effect of CO ₂ . 2015 , 29, 1978-1986	58
718	Pilot-scale experimental and CFD modeling investigations of oxy-fuel combustion of Victorian brown coal. 2015 , 144, 111-120	31
717	Modeling the CO ₂ -based enhanced geothermal system (EGS) paired with integrated gasification combined cycle (IGCC) for symbiotic integration of carbon dioxide sequestration with geothermal heat utilization. 2015 , 32, 197-212	21
716	A carbon-air battery for high power generation. 2015 , 54, 3722-5	32
715	A comparative thermodynamic, economic and risk analysis concerning implementation of oxy-combustion power plants integrated with cryogenic and hybrid air separation units. 2015 , 92, 421-430	44
714	Plasma assisted combustion: Dynamics and chemistry. <i>Progress in Energy and Combustion Science</i> , 2015 , 48, 21-83	33.6 553
713	Thermo-oxidation characteristics of oil shale and oil shale char under oxy-fuel combustion conditions. 2015 , 121, 509-516	10
712	NO _x and SO ₂ emissions of coals, biomass and their blends under different oxy-fuel atmospheres. 2015 , 116, 65-71	59
711	Numerical study of H ₂ O addition effects on pulverized coal oxy-MILD combustion. 2015 , 138, 252-262	50
710	Oxyfuel derived CO ₂ compression experiments with NO _x , SO _x and mercury removal Experiments involving compression of slip-streams from the Callide Oxyfuel Project (COP). 2015 , 41, 50-59	21
709	Heat extraction from a utility-scale oxy-fuel-fired CFB boiler. 2015 , 130, 144-150	13
708	Effects of flue gas recirculation on the premixed oxy-methane flames in atmospheric condition. 2015 , 89, 845-857	22
707	Oxyfuel combustion for CO ₂ capture in power plants. 2015 , 40, 55-125	262
706	Comprehensive investigation of process characteristics for oxy-steam combustion power plants. 2015 , 99, 92-101	42
705	The Scalar Structure of Turbulent Oxy-fuel Non-premixed Flames. 2015 , 66, 305-308	
704	Review on CFD based models for co-firing coal and biomass. 2015 , 51, 1101-1114	51
703	Atomized Air of Oxygen-Enriched Combustion for a 450 000 kcal/h Industrial Furnace. 2015 , 29, 3476-3482	7

702	An analysis of the investment risk related to the integration of a supercritical coal-fired combined heat and power plant with an absorption installation for CO ₂ separation. 2015 , 156, 423-435	8
701	Carbon Capture and Storage. 2015 ,	5
700	Investigating the combustion characteristic temperature of 28 kinds of Chinese coal in oxy-fuel conditions. 2015 , 103, 439-447	25
699	Carbon Dioxide Capture Technology for the Coal-Powered Electricity Industry. 2015 , 217-237	
698	Efficiency enhancement of pressurized oxy-coal power plant with heat integration. 2015 , 39, 256-264	16
697	Experimental Investigation of Coal Combustion in Coal-Laden Methane Jets. 2015 , 141,	6
696	Numerical research of heat and mass transfer during low-temperature ignition of a coal particle. 2015 , 19, 285-294	27
695	Sensitivity analysis of oxy-fuel power plant system. 2015 , 98, 138-150	21
694	Stabilizing electrochemical carbon capture membrane with Al ₂ O ₃ thin-film overcoating synthesized by chemical vapor deposition. 2015 , 51, 2936-8	23
693	Experimental and numerical study of oxygen separation and oxy-combustion characteristics inside a button-cell LNO-ITM reactor. 2015 , 84, 600-611	28
692	CO ₂ -tolerant mixed-conducting multichannel hollow fiber membrane for efficient oxygen separation. 2015 , 485, 79-86	22
691	The chemical mechanism of the effect of CO ₂ on the temperature in methane oxy-fuel combustion. 2015 , 86, 622-628	47
690	A comparative review between amines and ammonia as sorptive media for post-combustion CO ₂ capture. 2015 , 148, 10-22	137
689	Study on flame responses and ignition characteristics of CH ₄ /O ₂ /CO ₂ mixture in a micro flow reactor with a controlled temperature profile. 2015 , 84, 360-367	21
688	Influence of four-end HTM (high temperature membrane) parameters on the thermodynamic and economic characteristics of a supercritical power plant. 2015 , 81, 662-673	5
687	Effect of A/B-site substitution on oxygen production performance of strontium cobalt based perovskites for CO ₂ capture application. 2015 , 5, 39785-39790	18
686	Carbon cycle in advanced coal chemical engineering. 2015 , 44, 5409-45	100
685	Laser diagnostics of pulverized coal combustion in O ₂ /N ₂ and O ₂ /CO ₂ conditions: velocity and scalar field measurements. 2015 , 56, 1	38

684	Comparative analysis of four gas-fired, carbon capture-enabled power plant layouts. 2015 , 17, 2143-2156	10
683	Possibilities for improving the thermodynamic and economic characteristics of an oxy-type power plant with a cryogenic air separation unit. 2015 , 85, 45-61	16
682	Thermogravimetry/Mass Spectrometry Analysis of Nitrogen Transformation during Oxy-fuel Combustion of Coal and Biomass Mixtures. 2015 , 29, 2462-2470	12
681	Study of the high heating rate devolatilization of a pulverized bituminous coal under oxygen-containing atmospheres. 2015 , 114, 22-31	21
680	Effect of temperature on the sintering behavior of Zhundong coal ash in oxy-fuel combustion atmosphere. 2015 , 150, 526-537	77
679	Numerical investigation on oxy-combustion characteristics of a 200MWe tangentially fired boiler. 2015 , 140, 660-668	65
678	Experimental and kinetic modeling study of the oxy-fuel oxidation of natural gas, CH ₄ and C ₂ H ₆ . 2015 , 160, 404-412	17
677	O ₂ /O ₂ Mixed Gas Production Using a Zr-Doped Cu-Based Oxygen Carrier. 2015 , 54, 9805-9812	21
676	Development of a process model for coal chemical looping combustion and validation against 100 kWth tests. 2015 , 157, 433-448	31
675	A generalized model of SO ₂ emissions from large- and small-scale CFB boilers by artificial neural network approach Part 2. SO ₂ emissions from large- and pilot-scale CFB boilers in O ₂ /N ₂ , O ₂ /CO ₂ and O ₂ /RFG combustion atmospheres. 2015 , 139, 73-85	36
674	Technoeconomic and Dynamical Analysis of a CO ₂ Capture Pilot-Scale Plant Using Ionic Liquids. 2015 , 54, 11360-11370	35
673	Oxygen permeation behavior through Ce _{0.9} Gd _{0.1} O _{2-δ} membranes electronically short-circuited by dual-phase Ce _{0.9} Gd _{0.1} O _{2-δ} decoration. 2015 , 3, 19033-19041	15
672	Effects of CO ₂ and heating rate on the characteristics of chars prepared in CO ₂ and N ₂ atmospheres. 2015 , 142, 243-249	53
671	Integration of oxygen membranes for oxygen production in cement plants. 2015 , 91, 852-865	17
670	Field measurements of NO _x and mercury from oxy-fuel compression condensates at the Callide Oxyfuel Project. 2015 , 42, 485-493	6
669	Achievement of high CO ₂ concentration in the flue gas at slightly positive pressure during oxy-coal combustion in a 300 kWth furnace. 2015 , 160, 434-439	5
668	Mechanisms of direct and in-direct sulfation of limestone. 2015 , 161, 1-11	23
667	Influences of activation agent impregnated sewage sludge pyrolysis on emission characteristics of volatile combustion and De-NO _x performance of activated char. 2015 , 156, 767-775	38

666	Pyrolysis and oxy-fuel combustion characteristics and kinetics of petrochemical wastewater sludge using thermogravimetric analysis. 2015 , 198, 115-23	47
665	Experimental research on the NO _x evolution of pulverized coal combusted in CO ₂ , Ar and N ₂ atmospheres. 2015 , 106, 457-465	11
664	First and second thermodynamic-law comparison of biogas MILD oxy-fuel combustion moderated by CO ₂ or H ₂ O. 2015 , 106, 625-634	35
663	Anthracite oxy-combustion characteristics in a 90 kW th fluidized bed reactor. 2015 , 139, 196-203	19
662	Three-dimensional calculation of a chemically reacting porous particle moving in a hot O ₂ /CO ₂ atmosphere. 2015 , 83, 244-258	43
661	Electrochemical gas-electricity cogeneration through direct carbon solid oxide fuel cells. 2015 , 277, 1-8	49
660	Evaluation of burnout performance of biomass wastes in a rocket-engine-based incinerator. 2015 , 143, 308-317	4
659	Microstructure and mechanical properties of ceramics prepared under simulated oxygen-enriched or oxy-fuel atmosphere. 2015 , 41, 2779-2784	1
658	Mercury removal over the vanadia-titania catalyst in CO ₂ -enriched conditions. 2015 , 263, 356-363	48
657	Evaluation of the potential of retrofitting a coal power plant to oxy-firing using CFD and process co-simulation. 2015 , 131, 45-58	17
656	Kinetics investigation on the combustion of biochar in O ₂ /CO ₂ atmosphere. 2015 , 34, 923-932	25
655	Large-eddy simulation of pulverized coal jet flame – Effect of oxygen concentration on NO _x formation. 2015 , 142, 152-163	67
654	Geometrical parameter evaluation of a 0.5 MW th bench-scale oxy-combustion burner. 2015 , 139, 637-645	
653	Numerical and experimental studies on the ignition of pulverized coal in O ₂ /H ₂ O atmospheres. 2015 , 139, 198-205	32
652	Numerical investigation of oxy-coal combustion in a large-scale furnace: Non-gray effect of gas and role of particle radiation. 2015 , 139, 87-93	38
651	Numerical modelling of oxy fuel combustion, the effect of radiative and convective heat transfer and burnout. 2015 , 139, 268-284	76
650	Effect of atmosphere on the release behavior of alkali and alkaline earth metals during coal oxy-fuel combustion. 2015 , 139, 164-170	57
649	SPECIFIC FEATURES OF THE OXYFUEL COMBUSTION CONDITIONS IN A BUBBLING FLUIDIZED BED. 2016 , 56, 312-318	4

648	REVIEW OF CFD SIMULATION OF OXY-COAL COMBUSTION FOR ELETRICAL POWER GENERATION: OPPORTUNITIES AND CHALLENGES. 2016 , 15, 76	
647	Study on NO Heterogeneous Reduction Mechanism under Gasification Condition. 2016 , 2016, 1-8	1
646	Two-dimensional temperature characteristics of syngas flames with nitrogen, carbon dioxide, and steam diluents by planar laser-induced fluorescence thermometry. 2016 , 49, 482-490	2
645	Investigation of performance of fire-tube boilers integrated with ion transport membrane for oxy-fuel combustion. 2016 , 40, 1673-1687	5
644	High temperature O ₂ vibrational CARS thermometry applied to a turbulent oxy-fuel combustion process. 2016 , 47, 1149-1156	11
643	The investigation of the coal ignition temperature and ignition characteristics in an oxygen-enriched FBR. 2016 , 183, 351-358	23
642	A review of oxy-fuel combustion in fluidized bed reactors. 2016 , 40, 878-902	79
641	Pyridine and pyrrole oxidation under oxy-fuel conditions. 2016 , 38, 975-981	9
640	A study of methane oxy-combustion characteristics inside a modified design button-cell membrane reactor utilizing a modified oxygen permeation model for reacting flows. 2016 , 28, 61-73	22
639	Spectral characteristics of a premixed oxy-methane flame in atmospheric conditions. 2016 , 116, 986-997	12
638	The interaction between CuO and Al ₂ O ₃ and the reactivity of copper aluminates below 1000 °C and their implication on the use of the CuAlO ₂ system for oxygen storage and production. 2016 , 6, 113016-113024	40
637	CO ₂ -Rich Combustion. 2016 , 1-21	
636	Oxy-fuel combustion technology for cement production [State of the art research and technology development. 2016 , 45, 189-199	53
635	Curtailing the generation of sulfur dioxide and nitrogen oxide emissions by blending and oxy-combustion of coals. 2016 , 181, 772-784	44
634	Oxygen temperature variation of a non-premixed oxy-methane flame in a lab-scale slot burner. 2016 , 104, 804-817	1
633	A study of coal chars combustion in O ₂ /H ₂ O mixtures by thermogravimetric analysis. 2016 , 126, 995-1005	20
632	Impact of chabazite SSZ-13 textural properties and chemical composition on CO ₂ adsorption applications. 2016 , 40, 4375-4385	31
631	Progress and prospect of CCS in China: Using learning curve to assess the cost-viability of a 2800 MW retrofitted oxyfuel power plant as a case study. 2016 , 60, 1274-1285	49

630	Detailed plant layout studies of oxy-enriched CO ₂ pulverized coal combustion-based power plant with CO ₂ enrichment. 2016 , 18, 1985-1996	5
629	Current status and experimental investigation of oxy-fired fluidized bed. 2016 , 61, 398-420	37
628	Numerical simulation of oxy-coal combustion in a rotary cement kiln. 2016 , 103, 491-500	17
627	Combustion of eucalyptus charcoals and coals of similar volatile yields aiming at blast furnace injection in a CO ₂ mitigation environment. 2016 , 129, 1-11	34
626	Effect of co-firing on emissions and deposition during fluidized bed oxy-combustion. 2016 , 184, 261-268	26
625	Experimental study of the effect of CO ₂ on propane oxidation in a Jet Stirred Flow Reactor. 2016 , 184, 876-888	15
624	Development of oxygen carriers for Chemical Looping Combustion: The chemical interaction between CuO and silica/Alumina granules with similar microstructure. 2016 , 186, 496-503	8
623	Effect of atmosphere reaction and heating rate on the devolatilization of a Colombian sub-bituminous coal. 2016 , 121, 93-101	15
622	The study on the heat transfer characteristics of oxygen fuel combustion boiler. 2016 , 25, 470-475	7
621	Experimental and Mechanism Study of Gas-Phase Arsenic Adsorption Over Fe ₂ O ₃ /Al ₂ O ₃ Sorbent in Oxy-Fuel Combustion Flue Gas. 2016 , 55, 10656-10663	27
620	Corrosion by Carbon Dioxide. 2016 , 495-547	2
619	Numerical Study of MILD Combustion for Pulverized Coal in O ₂ /N ₂ , O ₂ /CO ₂ , and O ₂ /H ₂ O Atmospheres. 2016 , 157-163	
618	Effect of oxygen concentration and reaction order on char inventory in fluidized bed combustion. 2016 , 171, 211-222	2
617	Characterisation of volatile organic sulphur compounds release during coal pyrolysis in inert, hydrogen and CO ₂ atmosphere. 2016 , 184, 304-313	16
616	Effects of CO ₂ on submicronic carbon particulate (soot) formed during coal pyrolysis in a drop tube reactor. 2016 , 172, 302-308	30
615	A dual-phase bilayer oxygen permeable membrane with hierarchically porous structure fabricated by freeze-drying tape-casting method. 2016 , 520, 354-363	22
614	Conceptual Study of Oxy-Methane Flows in a Constant-Velocity Faraday Magnetohydrodynamic Generator. 2016 ,	
613	Chemical Effect of H ₂ O on CH ₄ Oxidation during Combustion in O ₂ /H ₂ O Environments. 2016 , 30, 8491-8498	31

612	Effects of CO ₂ on the fuel nitrogen conversion during coal rapid pyrolysis. 2016 , 184, 430-439	31
611	Experimental and numerical studies on NO _x emission characteristics in laminar non-premixed jet flames of ammonia-containing methane fuel with oxygen/nitrogen oxidizer. 2016 , 114, 961-972	18
610	Methane combustion in various regimes: First and second thermodynamic-law comparison between air-firing and oxyfuel condition. 2016 , 115, 26-37	8
609	CCSEM Analysis of Ash from Oxyfuel Combustion of Zhundong Coal. 2016 , 347-351	
608	Stretch extinction characteristics of CH ₄ /CO ₂ versus O ₂ /H ₂ O/CO ₂ and O ₂ /H ₂ O counterflow non-premixed flames at different oxidizer temperatures. 2016 , 186, 648-655	3
607	Development of oxygen carriers for chemical looping combustion: effects of support microstructure on the performance of oxygen carriers. 2016 , 232, 264-272	4
606	Thermodynamic analysis of a directly heated oxyfuel supercritical power system. 2016 , 179, 261-271	10
605	Effect of steam on ignition of pulverized coal particles in oxy-fuel combustion in a drop tube furnace. 2016 , 182, 958-966	26
604	Toxicological risk assessment in CO ₂ capture and storage technology. 2016 , 55, 118-143	19
603	Process Simulation and Energy Analysis of Oxy-Coal Combustion Steam Systems (OCCSS) With Near-Zero Emissions Based on Coal Gasification. 2016 ,	
602	Effect of Quarl on N ₂ - and CO ₂ -Diluted Methane Oxy-Flames Stabilized by an Axial-Plus-Tangential Swirler. 2016 ,	3
601	Redox-Active Metal-Organic Composites for Highly Selective Oxygen Separation Applications. 2016 , 28, 3572-7	37
600	Perovskite materials in energy storage and conversion. 2016 , 11, 338-369	59
599	Enrichment of trace elements in bottom ash from coal oxy-combustion: Effect of coal types. 2016 , 177, 81-86	28
598	Co-firing carbon dioxide-torrefied woody biomass with coal on emission characteristics. 2016 , 6, 91-104	10
597	A comprehensive experimental and modeling study of sulfur trioxide formation in oxy-fuel combustion. 2016 , 51, 165-175	10
596	Effects of oxy-fuel conditions on the products of pyrolysis in a drop tube reactor. 2016 , 150, 41-49	59
595	Modelling of slag deposition and flow characteristics of coal combustion under oxy-firing condition in a 550 MW tangentially fired furnace. 2016 , 106, 221-235	21

594	Minimization of CO ₂ capture energy penalty in second generation oxy-fuel power plants. 2016 , 103, 274-281	52
593	Pressurized oxy-combustion with low flue gas recycle: Computational fluid dynamic simulations of radiant boilers. 2016 , 181, 1170-1178	45
592	Investigation of mercury emission and its speciation from an oxy-fuel circulating fluidized bed combustor with recycled warm flue gas. 2016 , 300, 230-235	19
591	Study on the surface active reactivity of coal char conversion in O ₂ /CO ₂ and O ₂ /N ₂ atmospheres. 2016 , 181, 1244-1256	23
590	Volatilization of Arsenic in Coal during Isothermal Oxy-Fuel Combustion. 2016 , 30, 3479-3487	17
589	Inner Relationship between CO, NO, and Hg in a 6 kWth Circulating Fluidized Bed Combustor under an O ₂ /CO ₂ Atmosphere. 2016 , 30, 4221-4228	4
588	Experimental Study on Mercury Oxidation in a Fluidized Bed under O ₂ /CO ₂ and O ₂ /N ₂ Atmospheres. 2016 , 30, 5065-5070	8
587	Formation of Soot in Counterflow Diffusion Flames with Carbon Dioxide Dilution. 2016 , 188, 805-817	37
586	Investigation on the decrease in the reduction rate of oxygen carriers for chemical looping combustion. 2016 , 301, 429-439	13
585	A superior mixed electron and carbonate-ion conducting metal-carbonate composite membrane for advanced flue-gas carbon capture. 2016 , 505, 225-230	29
584	Physical and Chemical Effects of CO ₂ Addition on CH ₄ /H ₂ Flames on a Jet in Hot Coflow (JHC) Burner. 2016 ,	8
583	Development of a first-principles hybrid boiler model for oxy-combustion power generation system. 2016 , 46, 136-157	10
582	Control of radiative heat transfer in high-temperature environments via radiative trapping Part I: Theoretical analysis applied to pressurized oxy-combustion. 2016 , 172, 81-88	18
581	Characteristics of Char Gasification in Staged Oxygen-Enriched Combustion in a Down Flame Furnace. 2016 , 30, 1675-1684	4
580	Effect of Oxycombustion Diluents on the Extinction of Nonpremixed Methane Opposed-Jet Flames. 2016 , 188, 370-388	5
579	Ash formation and deposition during oxy-coal combustion in a 100 kW laboratory combustor with various flue gas recycle options. 2016 , 141, 249-257	19
578	Effects of carbon dioxide in oxy-fuel atmosphere on catalytic combustion in a small-scale channel. 2016 , 94, 766-774	6
577	Effect on O ₂ enrichment and CO ₂ dilution on rapeseed oil combustion in a stationary burner. 2016 , 73, 49-55	5

576	Effect of char gasification on NO _x formation process in the deep air-staged combustion in a 20 kW down flame furnace. 2016 , 164, 258-267	52
575	Combustion characteristics of waste sludge at air and oxy-fuel combustion conditions in a circulating fluidized bed reactor. 2016 , 170, 92-99	35
574	Oxy-fuel combustion of pulverized fuels: Combustion fundamentals and modeling. 2016 , 162, 742-762	226
573	Modeling of Solid and Bio-Fuel Combustion Technologies. 2016 , 259-309	10
572	Study of the thermal behaviour of coal/biomass blends during oxy-fuel combustion by thermogravimetric analysis. 2016 , 123, 1643-1655	21
571	Combustion of single char particles from Victorian brown coal under oxy-fuel fluidized bed conditions. 2016 , 165, 477-483	34
570	Thermal efficiency boundary analysis of an internal combustion Rankine cycle engine. 2016 , 94, 38-49	18
569	Homogeneous and heterogeneous contributions of CO ₂ and recycled NO to NO emission difference between air and oxy-coal combustion. 2016 , 163, 1-7	18
568	Thermal characterization of coal/straw combustion under air/oxy-fuel conditions in a swirl-stabilized furnace: A CFD modelling. 2016 , 93, 639-651	44
567	CO ₂ -Tolerant SrFe _{0.8} Nb _{0.2} O ₃ Carbonate Dual-Phase Multichannel Hollow Fiber Membrane for CO ₂ Capture. 2016 , 55, 3300-3307	15
566	Artificial Intelligence Treatment of SO ₂ Emissions from CFBC in Air and Oxygen-Enriched Conditions. 2016 , 142, 04015017	25
565	A cryogenic air separation process based on self-heat recuperation for oxy-combustion plants. 2016 , 162, 1114-1121	51
564	Pyrolysis characteristics and kinetics of biomass torrefied in various atmospheres. 2017 , 141, 72-78	66
563	A mechanistic study of the effects of CO ₂ on pyrrhotite oxidation. 2017 , 36, 3925-3931	10
562	Nitrogenous Gas Emissions from Coal/Biomass Co-combustion under a High Oxygen Concentration in a Circulating Fluidized Bed. 2017 , 31, 3234-3242	18
561	Soot, organics, and ultrafine ash from air- and oxy-fired coal combustion. 2017 , 36, 4029-4037	8
560	Development of semi-parallel reaction model of devolatilization and heterogeneous reaction for pulverized coal particles. 2017 , 158, 104-114	3
559	A kinetic study on oxidation of ferrous sulfide (FeS) in mixtures of CO ₂ and H ₂ O. 2017 , 36, 2173-2180	11

558	Techno-economic analysis of oxy-combustion coal-fired power plant with cryogenic oxygen storage. 2017 , 191, 193-203	48
557	Preliminary Research on the Effects of Coal Devolatilization and Char Combustion Processes on the Emission of Particulate Matter during Lignite Combustion under Air and Oxy-fuel Conditions. 2017 , 31, 224-230	8
556	Dynamic Exergy Method for Evaluating the Control and Operation of Oxy-Combustion Boiler Island Systems. 2017 , 51, 725-732	12
555	Effect of potassium-doping and oxygen concentration on soot oxidation in O ₂ /CO ₂ atmosphere: A kinetics study by thermogravimetric analysis. 2017 , 149, 686-697	47
554	Review of Mercury Formation and Capture from CO ₂ -Enriched Oxy-Fuel Combustion Flue Gas. 2017 , 31, 1053-1064	22
553	Mercury emission and speciation in fly ash from a 35 MWth large pilot boiler of oxyfuel combustion with different flue gas recycle. 2017 , 195, 174-181	32
552	A numerical investigation on flame stability of oxy-coal combustion: Effects of blockage ratio, swirl number, recycle ratio and partial pressure ratio of oxygen. 2017 , 57, 63-72	9
551	Computer-Controlled Scanning Electron Microscopy Investigation on Ash Formation Characteristics of a Calcium-Rich Coal under O ₂ /CO ₂ Environments. 2017 , 31, 319-327	9
550	One-step synthesis of highly efficient CaO-based CO ₂ sorbent pellets via gel-casting technique. 2017 , 160, 70-77	34
549	Flame Characteristics of CH ₄ /H ₂ on a Jet-in-Hot-Coflow Burner Diluted by N ₂ , CO ₂ , and H ₂ O. 2017 , 31, 3270-3280	34
548	Oxy-fuel combustion technology: current status, applications, and trends. 2017 , 41, 1670-1708	54
547	Numerical Study of Co-firing Biomass with Lean Coal under Air-fuel and Oxy-fuel Conditions in a Wall-Fired Utility Boiler. 2017 , 31, 5344-5354	9
546	Impact of Biomass and Main Biomass Components on Coal Reactivity under Oxy-Combustion Conditions: A Comparison of Physicochemical Char Properties Obtained under N ₂ and CO ₂ Atmospheres. 2017 , 31, 5603-5611	4
545	Organic and inorganic sulphur compounds releases from high-pyrite coal pyrolysis in H ₂ , N ₂ and CO ₂ : Test case Chinese LZ coal. 2017 , 202, 494-502	28
544	Thermodynamic and ecological assessment of selected coal-fired power plants integrated with carbon dioxide capture. 2017 , 200, 73-88	30
543	Analysis of supercritical coal fired oxy combustion power plant with cryogenic oxygen unit and turbo-compressor. 2017 , 128, 271-283	11
542	Experimental study on the diffusion-kinetics interaction in heterogeneous reaction of coal. 2017 , 129, 1625-1637	26
541	CO ₂ -O ₂ gasification of a bituminous coal in circulating fluidized bed. 2017 , 200, 81-88	17

540	The Characteristics of Oxycombustion of Liquid Fuel in a Typical Water-Tube Boiler. 2017 , 31, 6305-6313	11
539	Gas-solids kinetics of CuO/Al ₂ O ₃ as an oxygen carrier for high-pressure chemical looping processes: The influence of the total pressure. 2017 , 42, 12111-12121	13
538	Separation and characterization of carbonaceous particulate (soot and char) produced from fast pyrolysis of coal in inert and CO ₂ atmospheres. 2017 , 201, 118-123	30
537	Bioslurry for Stationary Applications: Particulate Matter Emission during Combustion under Air and Oxyfuel Conditions. 2017 , 31, 7241-7246	6
536	Simplified numerical modelling of oxy-fuel combustion of pulverized coal in a swirl burner. 2017 , 124, 734-745	25
535	Computational particle-fluid dynamics simulation of gas-solid flow in a circulating fluidized bed with air or O ₂ /CO ₂ as fluidizing gas. 2017 , 318, 350-362	15
534	Comparison and application of different component municipal solid wastes based carbon on adsorption of carbon dioxide. 2017 , 14, 135-140	5
533	Study on the lower flammability limit of H ₂ /CO in O ₂ /H ₂ O environment. 2017 , 42, 11926-11936	13
532	Perovskite oxides applications in high temperature oxygen separation, solid oxide fuel cell and membrane reactor: A review. <i>Progress in Energy and Combustion Science</i> , 2017 , 61, 57-77	33.6 202
531	A-Site Excess (La _{0.8} Ca _{0.2}) _{1.01} FeO ₃ (LCF) Perovskite Hollow Fiber Membrane for Oxygen Permeation in CO ₂ -Containing Atmosphere. 2017 , 31, 4531-4538	20
530	High-Phosphorus Fuel Combustion: Effect of Oxyfuel Conditions on PM ₁₀ Emission from Homo- and Heterogeneous Phases. 2017 , 31, 2317-2323	18
529	Investigation into the structural features and gasification reactivity of coal chars formed in CO ₂ and N ₂ atmospheres. 2017 , 19, 9-15	16
528	Effect of co-firing coal and biomass blends on the gaseous environments and ash deposition during pilot-scale oxy-combustion trials. 2017 , 197, 145-158	31
527	Use of oxyfuel combustion ash for the production of blended cements: A synergetic solution toward reduction of CO ₂ emissions. 2017 , 156, 211-220	21
526	Copper oxide - perovskite mixed matrix membranes delivering very high oxygen fluxes. 2017 , 526, 323-333	35
525	Comparison of thermal behavior for modified calcium magnesium acetate blended separately with peanut shell and sewage sludge at different atmospheres. 2017 , 127, 2417-2425	4
524	The role of CO ₂ on oxy-colorless distributed combustion. 2017 , 188, 466-474	34
523	Experimental and modeling investigation on CO ₂ sorption kinetics over K ₂ CO ₃ -modified silica aerogels. 2017 , 312, 50-58	31

522	A comparison between the stabilization of premixed swirling CO ₂ -diluted methane oxy-flames and methane/air flames. 2017 , 201, 156-164	27
521	Oxidation of Carbon: What We Know and What We Still Need to Know. 2017 , 120, 62-74	10
520	Collaboration of simulations and experiments for development and uncertainty quantification of a reduced char combustion model. 2017 , 120, 500-507	4
519	Oxy-fuel Combustion in a 600 MW Gaseous Fuel Tangentially Fired Boiler. 2017 , 31, 12540-12551	4
518	Gasification of biomass with CO ₂ and H ₂ O mixtures in a catalytic fluidised bed. 2017 , 210, 605-610	25
517	Combustion of Lignite Coal in a Bubbling Fluidized Bed Combustor under Oxyfuel Conditions. 2017 , 114, 600-607	2
516	A novel methodological approach for achieving $\text{\$/MWh}$ cost reduction of CO ₂ capture and storage (CCS) processes. 2017 , 205, 529-539	21
515	Comparison of the Reburning Chemistry in O ₂ /N ₂ , O ₂ /CO ₂ , and O ₂ /H ₂ O Atmospheres. 2017 , 31, 11404-11412	9
514	Modeling Soot Oxidation and Gasification with Bayesian Statistics. 2017 , 31, 11291-11303	9
513	Oxidation Reactivity of Char Produced in a Pilot-Scale Blowpipe: Effect of the Heating Rate during Pyrolysis. 2017 , 31, 10760-10767	7
512	Coal utilization eco-paradigm towards an integrated energy system. 2017 , 109, 370-381	14
511	On the mechanism controlling the redox kinetics of Cu-based oxygen carriers. 2017 , 124, 193-201	9
510	Flame fluctuations in Oxy-CO ₂ -methane mixtures in swirl assisted distributed combustion. 2017 , 204, 303-317	38
509	SO ₃ formation and the effect of fly ash in a bubbling fluidised bed under oxy-fuel combustion conditions. 2017 , 167, 314-321	17
508	Experimental and Numerical Study of the Effects of Steam Addition on NO Formation during Methane and Ammonia Oxy-Fuel Combustion. 2017 , 31, 10093-10100	12
507	Emission characteristics of oxy-fuel combustion of crude oil in a fluidized bed combustor. 2017 , 35, 827-830	10
506	Comparison of the characteristics and mechanism of CO formation in O ₂ /N ₂ , O ₂ /CO ₂ and O ₂ /H ₂ O atmospheres. 2017 , 141, 1429-1438	10
505	Densities and excess volumes of aqueous monoethanolamine and diisopropanolamine systems at atmospheric pressure from 303.15 K to 333.15 K. 2017 , 34, 2725-2730	1

504	Effect of hydrogen addition on equimolar dimethyl ether/iso-octane/oxygen/argon premixed flames. 2017 , 42, 29557-29573	7
503	Experimental study on oxy-fuel combustion of heavy oil. 2017 , 42, 20306-20315	17
502	Effects of H ₂ O on NO Emission during Oxy-coal Combustion with Wet Recycle. 2017 , 31, 8392-8399	13
501	Hydrogen production and carbon dioxide enrichment from ethanol steam reforming followed by water gas shift reaction. 2017 , 162, 1430-1441	30
500	A mode transition strategy from air to oxyfuel combustion in a 35 MW coal-fired power plant boiler. 2017 , 34, 1554-1562	8
499	An optimization approach for CO ₂ capture using ionic liquids. 2017 , 168, 1652-1667	36
498	Comparison of pyrolysis test rigs for oxy-fuel conditions. 2017 , 156, 461-472	22
497	Effects of N ₂ , CO ₂ and H ₂ O dilutions on temperature and concentration fields of OH in methane Bunsen flames by using PLIF thermometry and bi-directional PLIF. 2017 , 81, 209-222	13
496	Process and engineering trends in membrane based carbon capture. 2017 , 68, 659-684	86
495	Thermogravimetric characteristics of textile dyeing sludge, coal and their blend in N ₂ /O ₂ and CO ₂ /O ₂ atmospheres. 2017 , 111, 87-94	40
494	Experimental and theoretical analyses on ignition and surface temperature of dispersed coal particles in O ₂ /N ₂ and O ₂ /CO ₂ ambients. 2017 , 201, 93-98	30
493	Relevance of structure, fragmentation and reactivity of coal to combustion and oxy-combustion. 2017 , 201, 65-80	42
492	A thermodynamic and environmental performance of in-situ gasification of chemical looping combustion for power generation using ilmenite with different coals and comparison with other coal-driven power technologies for CO ₂ capture. 2017 , 119, 1171-1180	29
491	Control Structure Design for Oxy-Fired Circulating Fluidized Bed Boilers Using Self-Optimizing Control and Partial Relative Gain Analyses. 2017 , 50, 2023-2030	3
490	Review of Membrane Oxygen Enrichment for Efficient Combustion. 2017 , 877, 012050	1
489	Impacts of CO ₂ on char structure and the gasification reactivity. 2017 , 128, 13-17	10
488	Carbon capture from power generation. 2017 , 75-101	5
487	Silica Membranes Application for Carbon Dioxide Separation. 2017 , 265-294	1

486	Performance and Stability Enhancement of Perovskite-Type Nanomaterials Applied for Carbon Capture Utilizing Oxyfuel Combustion. 2017 , 10, 164	7
485	The Efficiency Improvement by Combining HHO Gas, Coal and Oil in Boiler for Electricity Generation. 2017 , 10, 251	7
484	Numerical Study on the Effect of Lambda Value (Oxygen/Fuel Ratio) on Temperature Distribution and Efficiency of a Flameless Oxyfuel Combustion System. 2017 , 10, 338	3
483	Measurement of Soot Volume Fraction and Temperature for Oxygen-Enriched Ethylene Combustion Based on Flame Image Processing. 2017 , 10, 750	13
482	Microbial Carbonic Anhydrases in Biomimetic Carbon Sequestration for Mitigating Global Warming: Prospects and Perspectives. 2017 , 8, 1615	43
481	Study of the Combustion Characteristics of a HCCI Engine Coupled with Oxy-Fuel Combustion Mode. 2017 , 10, 908-916	18
480	Energy from Microalgae. 2018 ,	4
479	Investigation on the thermodynamic calculation of a 35 MWth oxy-fuel combustion coal-fired boiler. 2018 , 71, 36-45	20
478	Biofuels from Microalgae: Photobioreactor Exhaust Gases in Oxycombustion Systems. 2018 , 271-290	4
477	Effect of air and oxyfuel staged combustion on oil shale fly ash formation with direct in-furnace limestone addition for sulphur retention. 2018 , 220, 192-199	3
476	Oscillating coal and biomass flames: A spectral and digital imaging approach for air and oxyfuel conditions. 2018 , 173, 243-252	5
475	Investigation into the Cleavage of Chemical Bonds Induced by CO ₂ and Its Mechanism during the Pressurized Pyrolysis of Coal. 2018 , 32, 3243-3253	8
474	Experimental and Numerical Investigations of Soot Formation in Laminar Coflow Ethylene Flames Burning in O ₂ /N ₂ and O ₂ /CO ₂ Atmospheres at Different O ₂ Mole Fractions. 2018 , 32, 6252-6263	23
473	Limitation of thermogravimetry for oxy-combustion analysis of coal chars. 2018 , 133, 713-725	8
472	Release characteristics of semi-volatile heavy metals during co-combustion of sewage sludge and coal under the O ₂ /CO ₂ atmosphere. 2018 , 133, 1041-1047	7
471	Effect of oxy-fuel combustion on flame characteristics of low calorific value coal gases in a small burner and combustor. 2018 , 226, 350-364	13
470	Review of arsenic behavior during coal combustion: Volatilization, transformation, emission and removal technologies. <i>Progress in Energy and Combustion Science</i> , 2018 , 68, 1-28	33.6 94
469	Thermodynamic evaluation of carbon dioxide gasification reactions at oxy-combustion conditions. 2018 , 190, 1515-1527	5

468	Detailed investigation of NO mechanism in non-premixed oxy-fuel jet flames with CH ₄ /H ₂ fuel blends. 2018 , 43, 8534-8557	8
467	Economic optimization of integrated network for utility supply and carbon dioxide mitigation with multi-site and multi-period demand uncertainties. 2018 , 220, 723-734	9
466	Effect of the elevated initial temperature on the laminar flame speeds of oxy-methane mixtures. 2018 , 147, 876-883	18
465	Global reaction mechanisms for MILD oxy-combustion of methane. 2018 , 147, 839-857	33
464	Impact of Oxy-fuel Combustion on Ash Properties and Sintering Strength Development. 2018 , 32, 4315-4322	9
463	Fast pyrolysis of coal particles in a novel hot plate reactor: Implications of the reaction atmosphere on the reactivity and char chemical structure. 2018 , 130, 43-51	8
462	Conversions of fuel-N, volatile-N, and char-N to NO and N ₂ O during combustion of a single coal particle in O ₂ /N ₂ and O ₂ /H ₂ O at low temperature. 2018 , 26, 1967-1977	7
461	On the Effects of Oxygen-Enrichment on Flame Liftoff, Stabilization, and Blowout in Ethylene Flames. 2018 ,	1
460	Thermogravimetric analysis and process simulation of oxy-fuel combustion of blended fuels including oil shale, semicoke, and biomass. 2018 , 42, 2213-2224	18
459	Oxygen Removal from Oxy-Combustion Flue Gas for CO ₂ Purification via Catalytic Methane Oxidation. 2018 , 57, 1954-1960	10
458	Design and Experimental Demonstration of a High Pressure Oxy-Methane Combustor. 2018 ,	
457	Effect of CO ₂ /H ₂ O on the Incipient Ultrafine Particulate Matter Formation in Oxy-fuel Combustion of High-Sodium Lignite. 2018 , 32, 4308-4314	7
456	Using a hierarchically-structured CuO@TiO ₂ -Al ₂ O ₃ oxygen carrier for chemical looping air separation in a paralleled fluidized bed reactor. 2018 , 334, 611-618	23
455	Facile synthesis of silica aerogel supported K ₂ CO ₃ sorbents with enhanced CO ₂ capture capacity for ultra-dilute flue gas treatment. 2018 , 215, 735-743	45
454	Exploration of the material property space for chemical looping air separation applied to carbon capture and storage. 2018 , 212, 478-488	22
453	Characteristics of coal partial gasification experiments on a circulating fluidized bed reactor under CO ₂ O ₂ atmosphere. 2018 , 130, 814-821	10
452	Calcium sulfation characteristics at high oxygen concentration in a 1MWth pilot scale oxy-fuel circulating fluidized bed. 2018 , 171, 192-197	12
451	Transformation of Organically Bound Chromium during Oxy-coal Combustion: The Influence of Steam and Mineral. 2018 , 32, 1992-1998	9

450	Evolution of CO ₂ capture technology between 2007 and 2017 through the study of patent activity. 2018 , 211, 1282-1296	73
449	Co-combustion characteristics of municipal sewage sludge and bituminous coal. 2018 , 131, 1821-1834	14
448	Thermodynamic Analysis of ENEL and TIPS Oxy-coal Power Cycles. 2018 ,	1
447	Fluidized Bed Incineration of Sewage Sludge in O ₂ /N ₂ and O ₂ /CO ₂ Atmospheres. 2018 , 32, 2355-2365	12
446	Numerical and experimental study on flameless oxy-fuel combustion in a pilot- scale and a real-size industrial furnace. 2018 , 141, 788-797	9
445	Study on the configuration of bottom cycle in natural gas combined cycle power plants integrated with oxy-fuel combustion. 2018 , 212, 465-477	30
444	Modeling the Vaporization of Inorganic Matter from a Single Coal Char Particle Burning in an O ₂ /CO ₂ Atmosphere. 2018 , 32, 4323-4333	3
443	Oxidation and reduction kinetic of YBaCo ₄ O _{7+δ} and substituted oxygen carriers. 2018 , 134, 2213-2221	6
442	Sulfur trioxide formation/emissions in coal-fired air- and oxy-fuel combustion processes: a review. 2018 , 8, 402-428	22
441	A kinetic study on the catalysis of KCl, K ₂ SO ₄ , and K ₂ CO ₃ during oxy-biomass combustion. 2018 , 218, 50-58	23
440	Measurement and theoretical prediction of char temperature oscillation during fluidized bed combustion. 2018 , 192, 190-204	16
439	An investigation into the stability and use of non-stoichiometric YBaCo ₄ O _{7+δ} for oxygen enrichment processes. 2018 , 320, 292-296	0
438	Non-isothermal thermogravimetric analysis of heavy oil in an O ₂ /CO ₂ atmosphere. 2018 , 16,	
437	Aerodynamics of burner jet in a tangentially-fired boiler: A CFD modelling and experiment. 2018 , 129, 238-253	8
436	Fast pyrolysis of coals under N ₂ and CO ₂ atmospheres. 2018 , 133, 1535-1547	3
435	Effect of recycled flue gas ratios for pellet type biomass combustion in a packed bed furnace. 2018 , 120, 1031-1043	25
434	The influence of CO ₂ gas concentration on the char temperature and conversion during oxy-fuel combustion in a fluidized bed. 2018 , 215, 116-130	8
433	Effect of HCl and CO on sulfur trioxide formation mechanisms during oxy-fuel combustion. 2018 , 174, 95-103	12

432	Experimental study on NO emissions from pulverized char under MILD combustion in an O ₂ /CO ₂ atmosphere preheated by a circulating fluidized bed. 2018 , 176, 43-49	22
431	Efficiency analysis of air-fuel and oxy-fuel combustion in a reheating furnace. 2018 , 121, 1364-1370	17
430	Study on the limestone sulfation behavior under oxy-fuel circulating fluidized bed combustion condition. 2018 , 91, 358-368	18
429	Dry carbonate process for CO ₂ capture and storage: Integration with solar thermal power. 2018 , 82, 1796-1812	21
428	Corrosion behavior of candidate heat exchanger materials in oxidizing and reducing gases relevant to oxyfuel power plants. 2018 , 35, 275-290	9
427	The use of CO ₂ as an additive for ignition delay and pollutant control in CH ₄ /air autoignition. 2018 , 211, 898-905	24
426	Effect of Sulphur on the Oxidation Behaviour of Possible Construction Materials for Heat Exchangers in Oxyfuel Plants in the Temperature Range 550-700 °C. 2018 , 89, 651-681	12
425	Oxy-fuel combustion of methane in a swirl tubular flame burner under various oxygen contents: Operation limits and combustion instability. 2018 , 90, 115-124	43
424	Experimental and correlation of viscosity and refractive index of non-aqueous system of diethanolamine (DEA) and dimethylformamide (DMF) for CO ₂ capture. 2018 , 250, 162-170	24
423	Analysis of the Flue Gas Preparation Process for the Purposes of Carbon Dioxide Separation Using the Adsorption Methods. 2018 , 140,	8
422	NO _x reduction in a 40 t/h biomass fired grate boiler using internal flue gas recirculation technology. 2018 , 220, 962-973	39
421	Devolatilization and Combustion of Coarse-Sized Coal Particles in Oxyfuel Conditions: Experimental and Modeling Studies. 2018 , 32, 839-854	1
420	Impact of non-ideal behavior on ignition delay and chemical kinetics in high-pressure shock tube reactors. 2018 , 189, 1-11	16
419	O ₂ /CO ₂ and O ₂ /N ₂ combustion of bituminous char particles in a bubbling fluidized bed under simulated combustor conditions. 2018 , 336, 74-81	29
418	Combustion behaviors of wasted plastics coated around electric cables in electrically heated drop tube furnaces. 2018 , 20, 543-551	3
417	Circulating Fluidized Bed Boiler Oxygen-enriched Combustion Technology Application Research. 2018 , 170, 042078	
416	Methods for efficiency improvement of the semi-closed oxy-fuel combustion combined cycle. 2018 , 1111, 012003	4
415	High-efficient combustion of gas-fired furnace with 21~36% oxygen-enriched air. 2018 , 115, 613	

414	. 2018,	3
413	Energy and exergy analyses of oxy-fuel combustion power plants with chemical looping air separation. 2018, 27, 121	
412	Modeling methods for oxy-fuel combustion cycles with multicomponent working fluid. 2018,	5
411	Emission Behaviors of Inorganic Ultrafine Particles during Zhundong Coal Oxy-Fuel Combustion with Characterized Oxygen Input Fractions Comparable to Air Combustion. 2018, 8, 1486	8
410	A numerical study of the effects of CO ₂ and H ₂ O on the ignition characteristics of syngas in a micro flow reactor. 2018, 43, 22649-22657	7
409	Insights into the Effects of Atmosphere and Chlorine on Potassium Release during Biomass Combustion: Temporal Measurement and Kinetic Studies. 2018, 32, 12523-12531	7
408	Study on Adsorption Mechanism and Failure Characteristics of CO ₂ Adsorption by Potassium-Based Adsorbents with Different Supports. 2018, 11,	7
407	Technology Evolution in Membrane-Based CCS. 2018, 11, 3153	16
406	CFD based investigation on effect of classifier blade length to coal particle distribution in coal pulverizer. 2018,	
405	Combustion and Pyrolysis Study of Pakistani Coal, Rice Husk, and Their Blends via TGA Analysis. 2018,	2
404	Experimental Study of Ion Current Signals and Characteristics in an Internal Combustion Rankine Cycle Engine Based on Water Injection. 2018, 140,	7
403	Homogeneous and heterogeneous formation of SO ₃ in flue gases burning high sulfur coal under oxy-fuel combustion conditions. 2018, 78, 420-428	8
402	Influence of H ₂ O phase state on system efficiency in O ₂ /H ₂ O combustion power plant. 2018, 78, 210-217	9
401	Thermodynamic Analysis and Optimization of an Oxyfuel Fluidized Bed Combustion Power Plant for CO ₂ Capture. 2018,	0
400	The chemical effect of CO ₂ on the methane laminar flame speed in O ₂ /CO ₂ atmosphere. 2018, 186, 012050	
399	Studies on Mercury Adsorption Species and Desorption Activation Energy on Activated Carbon under Oxy Combustion. 2018, 32, 10754-10759	7
398	Experimental and Numerical Study of the Effect of CO ₂ on the Ignition Delay Times of Methane under Different Pressures and Temperatures. 2018, 32, 10999-11009	15
397	Carbon Capture in Metal-Organic Frameworks. 2018, 1-78	1

396	Oxy-fuel combustion in a two-pass oxygen transport reactor for fire tube boiler application. 2018 , 229, 828-840	6
395	Low NOx Emissions from Pulverized Coal Moderate or Intense Low-Oxygen Dilution Combustion in O ₂ /CO ₂ Preheated by a Circulating Fluidized Bed. 2018 , 32, 10956-10963	11
394	Introduction. 2018 , 1-43	10
393	Thermochemical stability of La _x Sr _{1-x} Co _y Fe _{1-y} O _{3-δ} and NiFe ₂ O ₄ -Ce _{0.8} Tb _{0.2} O ₂ under real conditions for its application in oxygen transport membranes for oxyfuel combustion. 2018 , 562, 26-37	14
392	Corrosion Behavior of Austenitic Stainless Steels in Oxidizing and Reducing Gases Relevant to Oxyfuel Power Plants. 2018 , 70, 1502-1510	2
391	Experimental investigation of the flue gas thermochemical composition of an oxy-fuel swirl burner. 2018 , 231, 61-72	11
390	Effects of B-site Nb doping on the CO ₂ resistance and rate-controlling step of Ce _{0.8} Gd _{0.2} O ₂ Br _{0.6} Sr _{0.4} Co _{0.5} Fe _{0.5} O ₃ dual-phase membranes. 2018 , 53, 11962-11976	12
389	Nanostructured MgO Sorbents Derived from Organometallic Magnesium Precursors for Post-combustion CO ₂ Capture. 2018 , 32, 6910-6917	27
388	Flame attachment and kinetics studies of laminar coflow CO/H ₂ diffusion flames burning in O ₂ /H ₂ O. 2018 , 196, 147-159	3
387	Pilot and Industrial Demonstration of Oxy-fuel Combustion. 2018 , 209-222	2
386	Oxy-Steam Combustion. 2018 , 325-338	
385	System Integration and Optimization for Large Scale Oxy-fuel Combustion Systems. 2018 , 223-238	
384	Investigation of steam effect on ignition of dispersed coal particles in O ₂ /N ₂ and O ₂ /CO ₂ ambiances. 2018 , 233, 388-395	18
383	Effect of Sodium Sulfate in Ash on Sulfur Trioxide Formation in the Postflame Region. 2018 , 32, 8668-8675	3
382	Flow characteristics in pressurized oxy-fuel fluidized bed under hot condition. 2018 , 108, 1-10	23
381	CO ₂ Capture and Storage. 2018 , 61-130	1
380	In situ experimental and modeling study on coal char combustion for coarse particle with effect of gasification in air (O ₂ /N ₂) and O ₂ /CO ₂ atmospheres. 2018 , 233, 177-187	14
379	Simulation Study of Water Injection Strategy in Improving Cycle Efficiency Based on a Novel Compression Ignition Oxy-Fuel Combustion Engine. 2018 , 11, 935-945	12

378	Techno-Economic Analysis of a 600 MW Oxy-Enrich Pulverized Coal-Fired Boiler. 2018 , 11, 768	5
377	Thermodynamic, Economic and Environmental Evaluation of an Improved Ventilation Air Methane-Based Hot Air Power Cycle Integrated with a De-Carbonization Oxy-Coal Combustion Power Plant. 2018 , 11, 1434	3
376	Application of Bound-to-Bound Data Collaboration approach for development and uncertainty quantification of a reduced char combustion model. 2018 , 232, 769-779	8
375	Economic research relating to a 200 MWe oxy-fuel combustion power plant. 2018 , 8, 911-919	2
374	CO capture and storage: A way forward for sustainable environment. 2018 , 226, 131-144	90
373	Application of chemical looping air separation for MILD oxy-combustion in the supercritical power plant with CO ₂ capture. 2018 , 6, 490-505	5
372	Characteristics of Fly Ash under Oxy-Fuel Circulating Fluidized Bed Combustion. 2018 , 32, 9666-9671	10
371	Volumetric properties of non-aqueous binary mixture of diethanolamine (DEA) and dimethylformamide (DMF). 2018 , 6, 6390-6398	14
370	On the effects of fuel type, fuel mixing and sulphur content on the performance of a high-temperature membrane reactor adapting liquid fuel: A numerical study. 2018 , 196, 796-807	1
369	Experimental study and chemical reactor network modeling of the high heating rate devolatilization and oxidation of pulverized bituminous coals under air, oxygen-enriched combustion (OEC) and oxy-fuel combustion (OFC). 2018 , 177, 179-193	7
368	Fast pyrolysis of large coal particles in a novel hot plate reactor: Effects of the reaction atmosphere on the porous structure and char reactivity. 2018 , 133, 39-47	4
367	Mineral Behavior During Oxy-fuel Combustion. 2018 , 129-150	1
366	Advances in reduction of NO _x and N ₂ O ₁ emission formation in an oxy-fired fluidized bed boiler. 2019 , 27, 426-443	12
365	Impacts of CO ₂ on the pyriteKaolinite interaction and the product sintering strength. 2019 , 37, 4479-4486	4
364	Effect of different conditions on the combustion interactions of blended coals in O ₂ /CO ₂ mixtures. 2019 , 92, 413-427	18
363	Recent progress and challenges in membrane-based O ₂ /N ₂ separation. 2019 , 35, 591-625	39
362	Effect of stoichiometric mixture fraction on soot fraction and emission spectra with application to oxy-combustion. 2019 , 37, 4571-4578	8
361	Spectral Radiation Analysis of Premixed Oxy-Methane Flames. 2019 , 141,	

360	Characterizing flame stability and radiative heat transfer in non-swirling oxy-coal flames using different multiphase modeling frameworks. 2019 , 256, 115948	5
359	Structural and Parametric Investigations of Oxy-Fuel Combustion Cycles with the Aim of Increasing Efficiency of Electricity Production. 2019 ,	2
358	Numerical simulation of circulating fluidized bed oxy-fuel combustion with Dense Discrete Phase Model. 2019 , 195, 106129	12
357	Combined heat and mass transfer performance enhancement by nanoemulsion absorbents during the CO ₂ absorption and regeneration processes. 2019 , 141, 1196-1204	6
356	Effects of Activation Temperature and Densification on Adsorption Performance of MOF MIL-100(Cr). 2019 , 64, 5814-5823	13
355	Kinetics of pressurized oxy-combustion of coal chars. 2019 , 682, 178417	4
354	Comparison Study of Ash Partitioning and Deposition Behavior between Two Rice Husk Fuels under a 100 kW Combustor. 2019 , 33, 11968-11975	4
353	Numerical study of further NO _x emission reduction for coal MILD combustion by combining fuel-rich/lean technology. 2019 , 43, 8492	1
352	Effect of Surface Finish on High-Temperature Oxidation of Steels in CO ₂ , Supercritical CO ₂ , and Air. 2019 , 92, 525-540	14
351	The characteristics and mechanism of NO formation during pyridine oxidation in O ₂ /N ₂ and O ₂ /CO ₂ atmospheres. 2019 , 187, 115954	8
350	Exact regularized point particle (ERPP) method for particle-laden wall-bounded flows in the two-way coupling regime. 2019 , 878, 420-444	17
349	Effect of Fuel Dilution in a Hydrogen-Methane Blended Fuel Under Oxy-Distributed Combustion. 2019 ,	
348	A new burner for oxy-fuel combustion of hydrogen containing low-calorific value syngases: An experimental and numerical study. 2019 , 256, 115990	15
347	Kinetic Study of Long-Term T23 Tube Corrosion upon Low-Rank Coal Ash Deposition under Oxy-Fuel Combustion Conditions. 2019 , 33, 10209-10217	1
346	Effects of reaction condition on NO emission characteristic, surface behavior and microstructure of demineralized char during O ₂ /H ₂ O combustion process. 2019 , 253, 1424-1435	9
345	Investigation of thermophysical properties for aqueous blends of sarcosine with 1-(2-aminoethyl) piperazine and diethylenetriamine as solvents for CO ₂ absorption. 2019 , 278, 584-591	14
344	Experimental Investigation of NO Reburning During Oxy-Coal Burner Staging. 2019 , 33, 1590-1602	2
343	Unburnt carbon and ashing behavior for slow burning of lignite under oxygen-enriched combustion conditions. 2019 , 41, 1326-1335	9

342	Oxidation behavior and lifetime prediction of three commercial alloys used in power plants at 550 °C in CO ₂ environment. 2019 , 26, 898-908	6
341	Combustion Characteristics and Pollutant Emissions in Transient Oxy-Combustion of a Single Biomass Particle: A Numerical Study. 2019 , 33, 1556-1569	14
340	Self-Optimizing Control Structure and Dynamic Behavior for CO ₂ Compression and Purification Unit in Oxy-fuel Combustion Application. 2019 , 58, 3199-3210	5
339	Microalgal Systems for Integrated Carbon Sequestration from Flue Gas and Wastewater Treatment. 2019 , 339-370	
338	Effects of Preheating and CO ₂ Dilution on Oxy-MILD Combustion of Natural Gas. 2019 , 141,	6
337	Hydrogen concentration effects on swirl-stabilized oxy-colorless distributed combustion. 2019 , 253, 772-780	23
336	Temperature and oxygen partial pressure dependencies of the coal-bound nitrogen to NO _x conversion in O ₂ /CO ₂ environments. 2019 , 206, 98-111	21
335	A synergistic approach for the simultaneous decarbonisation of power and industry via bioenergy with carbon capture and storage (BECCS). 2019 , 87, 221-237	13
334	Effect of hydrogen ratio on turbulent flame structure of oxyfuel syngas at high pressure up to 1.0MPa. 2019 , 44, 11185-11193	10
333	Experimental study and demonstration of pilot-scale oxy-coal combustion at elevated temperatures and pressures. 2019 , 252, 113450	17
332	High temperature oxidation of Ni alloys in CO ₂ containing impurities. 2019 , 157, 20-30	16
331	Characteristics of Speciated Mercury Emissions from Coal Combustion in Air and Oxygen-Enriched Environment. 2019 , 102, 695-700	1
330	Molecular Dynamics of Combustion Reactions in Supercritical Carbon Dioxide. Part 5: Computational Study of Ethane Dissociation and Recombination Reactions CH ₃ + CH ₃ . 2019 , 123, 4776-4784 ⁴	
329	Pozzolanas and Pozzolanic Materials. 2019 , 363-467	13
328	CFD and kinetic modelling study of methane MILD combustion in O ₂ /N ₂ , O ₂ /CO ₂ and O ₂ /H ₂ O atmospheres. 2019 , 240, 1003-1013	39
327	Thermodynamic assessment and optimization of a pressurized fluidized bed oxy-fuel combustion power plant with CO ₂ capture. 2019 , 175, 445-455	22
326	Review of post-combustion carbon dioxide capture technologies using activated carbon. 2019 , 83, 46-63	102
325	Numerical and Experimental Study on Oxy-fuel Coal and Biomass Co-firing in a Bubbling Fluidized Bed. 2019 , 33, 5829-5839	8

324	Coal Bed Methane Enhancement Techniques: A Review. 2019 , 4, 3585-3601		17
323	A Techno-Economic Analysis of a Novel Solvent-Based Oxycombustion CO2 Capture Process. 2019 , 58, 6604-6612		5
322	A review on mercury in coal combustion process: Content and occurrence forms in coal, transformation, sampling methods, emission and control technologies. <i>Progress in Energy and Combustion Science</i> , 2019 , 73, 26-64	33.6	158
321	Formation and reduction of NO from the oxidation of NH3/CH4 with high concentration of H2O. 2019 , 247, 19-25		9
320	Understanding the effects of oxyfuel combustion and furnace scale on biomass ash deposition. 2019 , 247, 36-46		10
319	The mixture of sewage sludge and biomass waste as solid biofuels: Process characteristic and environmental implication. 2019 , 139, 707-717		23
318	Study of a full scale oxy-fuel cement rotary kiln. 2019 , 83, 166-175		14
317	Understanding the Nature of Weak Interactions between Functionalized Boranes and N/O, Promising Functional Groups for Gas Separations. 2019 , 123, 3315-3325		5
316	Application of Oxy-fuel Combustion Technology into Conventional Combustors. 2019 , 43-89		
315	Formation and O2/CO2 combustion characteristics of real-environment coal char in high-temperature oxy-fuel conditions. 2019 , 92, 1670-1682		23
314	Experimental study on the flame propagation characteristics of heavy oil oxy-fuel combustion. 2019 , 92, 1630-1640		6
313	Experimental and Numerical Investigations of Structure and Stability of Premixed Swirl-Stabilized CH4/O2/CO2 Flames in a Model Gas Turbine Combustor. 2019 , 33, 2526-2537		4
312	Numerical simulation of oxy-fuel combustion characteristics in a 200 MWe coal-fired boiler. 2019 , 9, 276-286		2
311	Experimental and kinetics study on SO catalytic formation by FeO in oxy-combustion. 2019 , 236, 420-427		10
310	Techno-economic and exergy analysis of polygeneration plant for power and DME production with the integration of chemical looping CO2/H2O splitting. 2019 , 186, 200-219		29
309	The effect of ozone addition on combustion: Kinetics and dynamics. <i>Progress in Energy and Combustion Science</i> , 2019 , 73, 1-25	33.6	43
308	Effect of oxygen concentration on oxy-fuel combustion characteristic and interactions of coal gangue and pine sawdust. 2019 , 87, 288-294		21
307	Characteristic of Particulate Matter from Combustion of Zhundong Lignite: A Comparison between Air and Oxy-fuel Atmospheres. 2019 , 33, 12260-12269		4

306	A Critical Review of CO ₂ Capture Technologies and Prospects for Clean Power Generation. 2019 , 12, 4143	42
305	Synergistic Removal of SO _x and NO _x in CO ₂ Compression and Purification in Oxy-Fuel Combustion Power Plant. 2019 , 33, 12621-12627	4
304	Producing Effective and Clean Coke for Household Combustion Activities to Reduce Gaseous Pollutant Emissions. 2019 , 2019, 1-12	3
303	Predicting land use changes in northern China using logistic regression, cellular automata, and a Markov model. 2019 , 12, 1	9
302	Numerical Investigation of Solid-Fueled Chemical Looping Combustion Process Utilizing Char for Carbon Capture. 2019 , 7, 603	2
301	Measurements and modelling of oxy-fuel coal combustion. 2019 , 37, 2643-2661	32
300	Influence of nitric oxide on the oxygen permeation behavior of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} perovskite membranes. 2019 , 210, 900-906	22
299	Combustion characteristics of lignite char in a fluidized bed under O ₂ /N ₂ , O ₂ /CO ₂ and O ₂ /H ₂ O atmospheres. 2019 , 186, 8-17	26
298	Characteristics of stoichiometric CH ₄ /O ₂ /CO ₂ flame up to the pure oxygen condition. 2019 , 168, 151-159	10
297	Synergistic effect between H ₂ O and SO ₂ on mercury removal by activated carbon in O ₂ /CO ₂ conditions. 2019 , 94, 1195-1201	6
296	Sequential Oxygen Reduction and Adsorption for Carbon Dioxide Purification for Flue Gas Applications. 2019 , 7, 1800917	6
295	A calcium looping process for simultaneous CO ₂ capture and peak shaving in a coal-fired power plant. 2019 , 235, 480-486	24
294	Examinations of the sulfur emission from pulverized lignite fuel, under pyrolysis and oxy-fuel combustion condition. 2019 , 241, 579-584	12
293	Density functional theory study of CO formation through reactions of polycyclic aromatic hydrocarbons with atomic oxygen (O(3P)). 2019 , 241, 851-860	2
292	Comparison of Microstructural Evolution of Oxides Formed on F91 Martensitic Steel Upon Breakaway Oxidation at 700 °C in Air and CO ₂ . 2019 , 91, 463-482	0
291	Oxygen transport capacity and kinetic study of ilmenite ores for methane chemical-looping combustion. 2019 , 169, 329-337	16
290	A kinetic study on lignite char gasification with CO ₂ and H ₂ O in a fluidized bed reactor. 2019 , 147, 602-609	12
289	Assessment of combustion rates of coal chars for oxy-combustion applications. 2019 , 238, 173-185	18

288	Analysis of wall temperature and heat flux distributions in a swirled combustor powered by a methane-air and a CO ₂ -diluted oxyflame. 2019 , 236, 1540-1547	6
287	A surface activation function method to determine the intrinsic reactivity of coal char oxyfuel conversion. 2019 , 239, 1061-1071	5
286	Evaluation of an optimal integrated design multi-fuel multi-product electrical power plant by energy and exergy analyses. 2019 , 169, 61-78	24
285	Atmospheric Emissions from Thermal (Coal-Fired) Power Plants and Associated Environmental Impacts. 2019 , 53-72	2
284	Ag-Fe ₃ O ₄ @rGO ternary magnetic adsorbent for gaseous elemental mercury removal from coal-fired flue gas. 2019 , 239, 579-586	44
283	Effect of water vapour on particulate matter emission during oxyfuel combustion of char and in situ volatiles generated from rapid pyrolysis of chromated-copper-arsenate-treated wood. 2019 , 37, 4319-4327	12
282	Experimental investigation of NO _x emissions during pulverized char combustion in oxygen-enriched air preheated with a circulating fluidized bed. 2019 , 92, 1388-1398	20
281	Experimental study on N ₂ O emission in O ₂ /CO ₂ combustion with high oxygen concentration in circulating fluidized bed. 2019 , 92, 128-135	8
280	Experimental study of homogeneous Hg oxidation in air and oxy-simulated flue gas. 2019 , 92, 257-264	6
279	Influence of modern coal-fired power technologies on fly ash properties and its use in concrete. 2019 , 31, 435-447	4
278	Carbon Management and Greenhouse Gas Mitigation. 2020 , 312-335	7
277	Fly ash from modern coal-fired power technologies: chloride ingress and carbonation of concrete. 2020 , 72, 486-498	3
276	Pressurized oxy-fuel combustion characteristics of single coal particle in a visualized fluidized bed combustor. 2020 , 211, 218-228	32
275	Study on oxy-fuel combustion behaviors in a S-CO ₂ CFB by 3D CFD simulation. 2020 , 211, 115262	9
274	Experimental study of a single char particle combustion characteristics in a fluidized bed under O ₂ /H ₂ O condition. 2020 , 382, 122942	22
273	CFD simulation of biomass thermal conversion under air/oxy-fuel conditions in a reciprocating grate boiler. 2020 , 146, 1416-1428	27
272	Effects of infinitely fast chemistry on combustion behavior of coaxial diffusion flame predicted by large eddy simulation. 2020 , 199, 106226	4
271	Liquid Air Energy Storage (LAES) as a large-scale storage technology for renewable energy integration [A review of investigation studies and near perspectives of LAES. 2020 , 110, 208-218	56

270	Reactive force field molecular dynamics (ReaxFF MD) simulation of coal oxy-fuel combustion. 2020 , 361, 337-348	17
269	Optimizing complexity in the kinetic modelling of integrated flue gas purification for pressurized oxy-combustion. 2020 , 383, 122875	6
268	Release and migration characteristics of sodium and potassium in high alkali coal under oxy-fuel fluidized bed combustion condition. 2020 , 262, 116413	10
267	High temperature oxidation of steels in CO ₂ containing impurities. 2020 , 164, 108316	12
266	Selective Reduction of Oxygen on Non-Noble Metal Copper Nanocatalysts. 2020 , 8, 1901213	3
265	Experimental research on the characteristics of ash in oxy-fuel combustion. 2020 , 263, 116799	14
264	Experimental study of the flame propagation characteristics of pulverized coal in an O ₂ /CO ₂ atmosphere. 2020 , 262, 116678	11
263	On the minimum oxygen requirements for oxy-combustion of single particles of torrefied biomass. 2020 , 213, 426-440	13
262	Soot formation and combustion characteristics in confined mesoscale combustors under conventional and oxy-combustion conditions (O ₂ /N ₂ and O ₂ /CO ₂). 2020 , 264, 116808	3
261	Reactive molecular dynamic simulations of the CO ₂ gasification effect on the oxy-fuel combustion of Zhundong coal char. 2020 , 199, 106305	18
260	Experimental research on the process of compression and purification of CO ₂ in oxy-fuel combustion. 2020 , 259, 114123	9
259	Effect of Cyclic Reaction on Corrosion Behavior of Chromium-Containing Alloys in CO ₂ Gas at 650 °C. 2020 , 93, 131-157	4
258	Second law analysis of premixed and non-premixed oxy-fuel combustion cycles utilizing oxygen separation membranes. 2020 , 259, 114213	7
257	Power Market Formation for Clean Energy Production as the Prerequisite for the Country's Energy Security. 2020 , 13, 4930	7
256	A highly diluted oxy-fuel micromixer combustor with hydrogen enrichment for enhancing turndown in gas turbines. 2020 , 279, 115818	5
255	Experiment and kinetic model study on modified potassium-based CO ₂ adsorbent. 2020 , 399, 125849	5
254	Study on the effect of gasification agents on the integrated system of biomass gasification combined cycle and oxy-fuel combustion. 2020 , 206, 118131	17
253	Effect of Recycled Flue Gas Ratio on Combustion Characteristics of Lignite Oxy-Combustion in a Circulating Fluidized Bed. 2020 , 34, 14786-14795	3

252	Numerical Simulation of Oxy-Fuel Combustion of Predrying Lignite. 2020 , 721, 012043	
251	Techno-Economic Analysis of Pressurized Oxy-Fuel Combustion of Petroleum Coke. 2020 , 13, 3463	8
250	An experimental and numerical study of soot formation of laminar coflow H ₂ /C ₂ H ₄ diffusion flames in O ₂ CO ₂ atmosphere. 2020 , 221, 50-63	11
249	A study of the effect of H ₂ O on char oxidation during O ₂ /H ₂ O combustion using reactive dynamic simulation. 2020 , 280, 118713	9
248	A Comparative Review on the Environmental Impacts of Combustion-Based Electricity Generation Technologies. 2020 , 34, 10486-10502	14
247	Simultaneous Absorption of NO _x and SO ₂ into Water and Acids under High Pressures. 2020 , 34, 9787-9795	1
246	Numerical investigation on effects of alkali metals release during combustion of char particle groups. 2020 , 279, 118465	1
245	Outdoor sunlight-driven scalable water-gas shift reaction through novel photothermal device-supported CuO _x /ZnO/Al ₂ O ₃ nanosheets with a hydrogen generation rate of 192 mmol g ⁻¹ h ⁻¹ . 2020 , 8, 19467-19472	12
244	High Pressure Supercritical Carbon Dioxide Separation from its Mixture with Nitrogen at Different Temperatures. 2020 , 1008, 1-14	1
243	Effect of CO ₂ and H ₂ O on Char Properties. Part 2: In Situ and Ex Situ Char in Oxy-Steam Combustion. 2020 , 34, 7554-7563	7
242	Effects of Fe on oxidation of Ni-20Cr and Ni-30Cr alloys at 800 °C in dry CO ₂ gas. 2020 , 173, 108777	3
241	3D simulation on pressurized oxy-fuel combustion of coal in fluidized bed. 2020 , 31, 2792-2805	6
240	Study on scale-up characteristics of oxy-fuel combustion in circulating fluidized bed boiler by 3D CFD simulation. 2020 , 31, 2136-2151	10
239	Experimental study on fouling and slagging behaviors during oxy-fuel combustion of high-sodium coal using a high-temperature drop-tube furnace. 2020 , 97, 103054	9
238	The Impact of Impurities on Alloy Behavior in Supercritical CO ₂ at 700 °C. 2020 , 94, 95-111	6
237	Metacontrol: A Python based application for self-optimizing control using metamodels. 2020 , 140, 106979	3
236	Experimental study and mechanism analysis of NO formation during volatile-N model compounds combustion in H ₂ O/CO ₂ atmosphere. 2020 , 273, 117722	9
235	. 2020 ,	1

- 234 Oxy-Fuel Combustion Characteristics of Pulverized Coal under O₂/Recirculated Flue Gas Atmospheres. **2020**, 10, 1362 6
- 233 Effect of CO₂ and H₂O on Char Properties. Part 1: Pyrolysis Char Structure and Reactivity. **2020**, 34, 4243-4250 11
- 232 Waste-to-energy technology integrated with carbon capture [Challenges and opportunities. **2020**, 198, 117352 43
- 231 Experimental study on the formation of ultrafine particulate matters (PMs) during pulverized coal (PC) char combustion in O₂/N₂ and O₂/CO₂ atmospheres. **2020**, 93, 2197-2203 4
- 230 Shock tube and modeling study of ignition delay times of propane under O₂/CO₂/Ar atmosphere. **2020**, 220, 34-48 9
- 229 CO₂ capturing, thermo-kinetic principles, synthesis and amine functionalization of covalent organic polymers for CO₂ separation from natural gas: A review. **2020**, 77, 103203 33
- 228 Temperature-Dependence of Corrosion of Ni-Based Superalloys in Hot CO₂-Rich Gases Containing SO₂ Impurities. **2020**, 72, 1822-1829 4
- 227 Study on CO Capture Characteristics and Kinetics of Modified Potassium-Based Adsorbents. **2020**, 13, 12
- 226 Effects of Gaseous Agents on Trace Element Emission Behavior during Co-combustion of Coal with Biomass. **2020**, 34, 3843-3849 3
- 225 High-temperature corrosion of water-wall tubes in oxy-combustion atmosphere. **2020**, 93, 1305-1312 3
- 224 Nanostructure and reactivity of soot from biofuel 2,5-dimethylfuran pyrolysis with CO₂ additions. **2020**, 1 2
- 223 Re-Recognition of the MILD Combustion Regime by Initial Conditions of Tin and XO₂ for Methane in a Nonadiabatic Well-Stirred Reactor. **2020**, 34, 2391-2404 11
- 222 The chemical CO capture by carbonation-decarbonation cycles. **2020**, 260, 110054 20
- 221 Effects of oxygen concentration on the thermal and chemical structures of laminar coflow CO/H₂ diffusion flames burning in O₂/H₂O atmosphere. **2020**, 270, 117474 3
- 220 Emission reduction of PM₁₀ via pretreatment combining water washing and carbonisation during rice straw combustion: Focus on the effects of pretreatment and combustion conditions. **2020**, 205, 106412 7
- 219 Quantitative analysis of the impact of flue gas recirculation on the efficiency of oxy-coal power plants. **2020**, 95, 102936 12
- 218 Operability of a premixed combustor holding hydrogen-enriched oxy-methane flames: An experimental and numerical study. **2021**, 45, 3049-3063 2
- 217 Experimental and numerical investigation on nitrogen transformation in pressurized oxy-fuel combustion of pulverized coal. **2021**, 278, 123240 9

216	Termolecular chemistry facilitated by radical-radical recombinations and its impact on flame speed predictions. 2021 , 38, 515-522	3
215	Effect of CO ₂ and H ₂ O on lignite char structure and reactivity in a fluidized bed reactor. 2021 , 211, 106564	9
214	Research on the slagging behaviors of Shenhua coal in different combustion atmospheres. 2021 , 287, 118537	3
213	Effects of Sulphate Deposits on Corrosion Behaviour of Fe-Based Alloys in Wet CO ₂ Gas at 750 °C. 2021 , 95, 23-43	1
212	Mechanism of kaolinite's influence on sodium release characteristics of high-sodium coal under oxy-steam combustion conditions. 2021 , 290, 119812	4
211	Numerical investigation of physicochemical effects of CO ₂ on coal particle ignition in O ₂ /CO ₂ ambience. 2021 , 287, 119542	5
210	Effect of Specimen Thickness on the Degradation of Mechanical Properties of Ferritic-Martensitic P91 Steel by Direct-fired Supercritical CO ₂ Power Cycle Environment. 2021 , 52, 82-93	4
209	Experimental study on the influence of the nitrogen concentration in the oxidizer on NO _x and CO emissions during the oxy-fuel combustion of natural gas. 2021 , 214, 118905	9
208	Flow pattern and behavior of 40 kWth pulverized torrefied biomass flames under atmospheric and oxy-fuel conditions. 2021 , 138, 110493	3
207	Experimental analysis of CO/H ₂ syngas with NO _x and SO _x reactions in pressurized oxy-fuel combustion. 2021 , 219, 119550	9
206	Calibration and validation of a comprehensive kinetic model of coal conversion in inert, air and oxy-fuel conditions using data from multiple test rigs. 2021 , 290, 119682	2
205	Emissions of PM ₁₀ from the co-combustion of high-Ca pyrolyzed biochar and high-Si coal under air and oxyfuel atmosphere. 2021 , 38, 4091-4099	4
204	Dry additive desulfurization in oxyfuel bubbling fluidized bed combustor. 2021 , 283, 118945	5
203	An experimental study on ignition of single coal particles at low oxygen concentrations. 2021 , 15, 38-45	1
202	Potential Application of Ionic Liquids and Deep Eutectic Solvents in Reduction of Industrial CO ₂ Emissions. 2021 , 643-673	
201	The evolution and desulfurization of sulfur in chemical looping combustion of coal. 1-12	0
200	Nuclear Desalination. 2021 , 121-135	1
199	Oxy-fuel Firing Technology for Power Generation and Heat and Steam Production. 2021 , 1-27	

198	Chemical kinetic analysis of in-cylinder ion current generation under direct water injection within internal combustion Rankine cycle engine. 2021 , 161-161	0
197	Characterization of flame synthesized PdTiO ₂ nanocomposite catalysts for oxygen removal from CO ₂ -rich streams in oxy combustion exhausts. 2021 , 11, 4763-4775	1
196	Carbon Capture: Innovation for a Green Environment. 2021 , 11-31	0
195	A review on fundamental research of oxy-coal combustion technology. 2021 , 238-238	0
194	Review of oil palm-derived activated carbon for CO ₂ capture. 2021 , 31, 201-252	12
193	Comparisons of the Uncoupled Effects of CO ₂ on the CH ₄ /O ₂ Counterflow Diffusion Flame under High Pressure. 2021 , 11, 1768	2
192	Characteristics Study of Gas Turbine Performance with using surface geothermal energy: Case Study of Iraq. 2021 , 1076, 012069	
191	Clean Coal Technologies for Power Generation. 2021 , 519-564	
190	Numerical investigation of 660 MW pulverized coal-fired supercritical power plant retrofitted to oxy-coal combustion. 2021 , 105, 103227	7
189	Kinetic Study on Continuous Sampling of Coal Char from a Micro Fluidized Bed. 2021 , 6, 9086-9094	2
188	Simulation Study on Implementation of Oxy-Fuel Combustion for a Practical GDI Engine.	2
187	Current Developments of Carbon Capture Storage and/or Utilization Looking for Net-Zero Emissions Defined in the Paris Agreement. 2021 , 14, 2406	15
186	Influence of potassium carbonate catalysis and pre-treatment atmosphere on the textural, structural, and chemical properties of high and low rank coals blended with biomass and their reactivity under conventional and oxy-combustion processes. 2021 , 220, 119602	3
185	Fabrication and performance of atmospheric plasma sprayed solid oxide fuel cells with liquid antimony anodes. 2021 , 8, 360-367	0
184	Potential and Challenges of Carbon Sequestration in Soils. 2021 , 1-21	2
183	A Review of the Numerical Modeling of Pulverized Coal Combustion for High-Efficiency, Low-Emissions (HELE) Power Generation. 2021 , 35, 7434-7466	3
182	Effect of particle size on in-situ desulfurization for oxy-fuel CFBC. 2021 , 291, 120270	4
181	Manganese Oxides Decorated Polyphenylene Sulfide Needle-punching Fibrous Felts: A New Composite for Dust Removal and Denitration Application. 2021 , 22, 2483-2490	0

180	Performance evaluation of a pressurized oxy-combustion power plant according to wet and dry flue gas recirculation. 2021 , 107, 103277	0
179	Modelling of coal combustion in a drop tube furnace in air and oxy fuel environment. 2021 , 47, 4431-4431	4
178	Emission of typical pollutants (NO, SO) in the oxygen combustion process with air in-leakages. 2021 , 28, 50683-50695	1
177	Effect of SO ₂ and SO ₃ on the distribution of Na/S/Cl and ashes characteristics of Zhundong coal during circulating fluidized bed O ₂ /CO ₂ combustion. 2021 , 96, 222-233	6
176	Remarkable Effects of Lanthanide Substitution for the Y-Site on the Oxygen Storage/Release Performance of YMnO. 2021 , 13, 31691-31698	2
175	Laminar Burning Velocity of Biogas-Containing Mixtures. A Literature Review. 2021 , 9, 996	2
174	Corrosion Behavior of Cr-Containing Alloys under Cyclic Reaction in Wet CO ₂ Gas at 650°C. 2021 , 96, 105-116	0
173	Experimental and Numerical Study on Moderate or Intense Low-Oxygen Dilution Oxy-Combustion of Methane in a Laboratory-Scale Furnace under N ₂ , CO ₂ , and H ₂ O Dilutions. 2021 , 35, 12403-12415	3
172	Time-Saving and Cheap Strategy To Prepare Large Mesoporous Materials for Efficient CO ₂ Adsorption. 2021 , 60, 9915-9927	2
171	Review on alternative fuel application in iron ore sintering. 1-9	4
170	Effect of CeO ₂ dispersion on the oxidation behavior of Ni-Al/Ni-Re coating in dry and wet CO ₂ gas at 650 °C. 2021 , 187, 109498	
169	A review of CO ₂ adsorbents performance for different carbon capture technology processes conditions. 2021 , 11, 1076	10
168	Oxyfuel Combustion of a Model MSWAn Experimental Study. 2021 , 14, 5297	3
167	Effect of CO ₂ and H ₂ O on Char Properties. Part 3: Semi-Char from Continuous Sampling in a Microfluidized Bed. 2021 , 35, 13124-13132	1
166	Numerical modeling of heat transfer characteristics in a two-pass oxygen transport reactor for fire tube boilers under oxy-fuel combustion. 2021 , 195, 117248	4
165	High-Temperature Corrosion Behavior of T92, TP347HFG and IN625 with Surface Scratching in Carbon Dioxide at 600 °C. 1	1
164	Thermogravimetric Analysis of Coal Semi-Char Co-Firing with Straw in O ₂ /CO ₂ Mixtures. 2021 , 9, 1421	1
163	Review on principles, recent progress, and future challenges for oxy-fuel combustion CO ₂ capture using compression and purification unit. 2021 , 9, 105777	14

162	A review of the effects of hydrogen, carbon dioxide, and water vapor addition on soot formation in hydrocarbon flames. 2021 , 46, 31400-31427	3
161	Experimental study on the stability and flame characteristics of LPG flames in O ₂ /N ₂ and O ₂ /CO ₂ environment. 2021 , 49, 2019-2019	2
160	Effects of hydrogen addition to methane on the thermal and ignition delay characteristics of fuel-air, oxygen-enriched and oxy-fuel MILD combustion. 2021 , 46, 34002-34017	4
159	The evolution characteristics of bituminous coal in the process of pyrolysis at elevated pressure. 2021 , 302, 120832	5
158	Techno-economic analysis of oxy-fuel power plant for coal and biomass combined with a power-to-gas plant. 2021 , 64, 47-58	0
157	Oxy-fuel combustion feasibility of compression ignition engines using oxygen separation membranes for enabling carbon dioxide capture. 2021 , 247, 114732	2
156	Structurally improved Li ₄ SiO ₄ sorbents derived from lithium salicylate precursor for enhanced CO ₂ capture. 2021 , 224, 107027	2
155	An experimental study of the ignition and combustion characteristics of single coal gangue particles under oxy-fuel conditions. 2021 , 306, 121741	2
154	Methodology for the numerical calculation of flexibility analysis of the cryogenic pipelines with vacuum insulation. 2021 , 194, 104512	
153	Molecular insights into the role of char-bound hydrogen in char-NO reactions under high pressures: A reactive molecular dynamics simulation study. 2022 , 308, 121997	5
152	A review on the progress and prospects of oxy-fuel carbon capture and sequestration (CCS) technology. 2022 , 308, 122057	17
151	Oxy-fuel power cycles promoting the transition to green and sustainable future in the energy sector. 2021 , 513-539	
150	Effect of Atmosphere and Additive on Enrichment Characteristics of Trace Elements during Fluidized Bed Coal Combustion. 647, 012104	
149	Applications of Soil Bacterial Community in Carbon Sequestration: An Accost Towards Advanced Eco-sustainability. 2021 , 225-238	
148	Oxy-fuel Firing Technology for Power Generation. 2012 , 1515-1543	1
147	Numerical Simulation on Hydrodynamics and Combustion in a Circulating Fluidized Bed under O ₂ /CO ₂ and Air Atmospheres. 2009 , 883-888	1
146	Effect of Operating Conditions on SO ₂ and NO _x Emissions in Oxy-Fuel Mini-CFB Combustion Tests. 2009 , 936-940	2
145	Fuel-Nitrogen Evolution During Fluidized Bed Oxy-Coal Combustion. 2009 , 1136-1140	2

144	Latest Evolution of Oxy-Fuel Combustion Technology in Circulating Fluidized Bed. 2009 , 49-58	6
143	Combustion of Coal Char Particles under Fluidized Bed Oxyfiring Conditions. 2009 , 624-629	2
142	Modeling of a Single Char Particle Burning in Oxygen-Enriched O ₂ /N ₂ and O ₂ /CO ₂ Environment. 2013 , 927-935	3
141	Simulation and Exergy Analysis of a 600 MWe Oxy-Combustion Pulverized Coal-Fired Power Plant. 2013 , 1195-1199	1
140	Thermodynamic and economic performance of oxy-combustion power plants integrating chemical looping air separation. 2020 , 206, 118136	9
139	Automatic Construction of REDIM Reduced Chemistry with a Detailed Transport and Its Application to CH ₄ Counterflow Flames. 2020 , 34, 16572-16584	5
138	Experimental and Numerical Study of the Effect of CO Replacing Part of N present in Air on CH Premixed Flame Characteristics Using a Reduced Mechanism. 2020 , 5, 30130-30138	2
137	Review of CO ₂ Storage Projects and Driving Strategy of CO ₂ Storage Program in Korea. 2016 , 2, 167-185	2
136	Carbon Capture; Transport and Storage in Europe: A Problematic Energy Bridge to Nowhere?.	2
135	Evaluation of Bleed Flow Precooling Influence on the Efficiency of the E-MATIANT Cycle. 2018 , 22, 593-602	5
134	Biomass Torrefaction as a Key Driver for the Sustainable Development and Decarbonization of Energy Production. 2020 , 12, 922	20
133	Development of microwave-assisted sol-gel rapid synthesis of nano-crystalline perovskites oxygen carrier material in oxyfuel combustion. 2019 , 20, 152-157	4
132	Combustion Characteristics of Methane/Oxygen in Pre-Mixed Swirl Flame. 2009 , 33, 343-348	1
131	Characteristics of CaCO ₃ Sorbent Particles for the In-furnace Desulfurization. 2010 , 34, 121-127	3
130	Characteristics of SrCo _{1-x} FexO _{3-δ} Perovskite Powders with Improved O ₂ /CO ₂ Production Performance for Oxyfuel Combustion. 2014 , 35, 1613-1618	11
129	Study on the Desulfurization Characteristic of Limestone Depending on the Operating Parameters of In-Furnace Desulfurization for Oxy-Fuel Combustion Using Drop Tube Furnace. 2011 , 49, 857-864	2
128	Investigation of Thermal Radiation from Soot Particles and Gases in Oxy-Combustion Counter-Flow Flames. 2021 , 9, 1756	1
127	Feature Selection and Uncertainty Analysis for Bubbling Fluidized Bed Oxy-Fuel Combustion Data. 2021 , 9, 1757	0

- 126 A Comprehensive Review of Ash Issues in Oxyfuel Combustion of Coal and Biomass: Mineral Matter Transformation, Ash Formation, and Deposition. 0
- 125 Reversible Scavenging of Dioxygen from Air by a Copper Complex. **2021**, 143, 18346-18352 1
- 124 Effect of O₂ concentration on combustion behavior and kinetics of coal gangue during oxy-fuel combustion and oxy-steam combustion. e2713 0
- 123 Carbonation of Fly Ash in Oxy-fuel CFB Combustion. **2007**, 799-804
- 122 Modeling of Damage Caused to Injectors Used in Pulverized-Coal-Oxygen-Combustion Furnace. **2010**, 34, 957-964
- 121 Experimental Study of Char Oxidation and Kinetic Rate in O₂/CO₂ and O₂/N₂ Environments. **2010**, 34, 1101-1109
- 120 Semiconducting Metal Oxides as Oxygen Sensor. 187-193
- 119 Oxy-fuel combustion on circulating fluidized bed (CFB). **2011**, 77-98
- 118 CaSO₄ Decomposition and Desulfurization in In-Furnace Desulfurization for Oxy-Fuel Combustion Using DTF. **2011**, 33, 420-425
- 117 Comparative Study of Char Burn-Out and NO_x Emissions in O₂/N₂ and O₂/CO₂ environments. **2011**, 20, 191-199 1
- 116 Oxy-coal Combustion Modeling at Semi-industrial Scale. **2012**, 245-258 1
- 115 Comparisons of Ash Particle Properties Under Air and Oxy Coal Combustion in a 25 kW One-Dimensional Down Fired Furnace. **2013**, 1225-1231
- 114 Numerical Simulations of a Large Scale Oxy-Coal Burner. **2013**, 971-974
- 113 The Guidelines for the Design and Layout of Oxy-Fuel Combustor Based on the Experiments of Pulverized Coal Combusted in Ar, N₂ and CO₂ Respectively. **2013**, 949-960
- 112 Numerical Study on NO Formation in a Pulverized Coal-Fired Furnace Using Oxy-Fuel Combustion. **2013**, 937-948
- 111 Effect of Combustion Characteristics on Wall Radiative Heat Flux in a 100 MWe Oxy-Coal Combustion Plant. **2013**, 1275-1282
- 110 Combustion of Pre-dried Brown Coal in Enriched with Oxygen Atmosphere. **2013**, 811-819
- 109 Comparison of Char Structural Characteristics and Reactivity During Conventional Air and Oxy-Fuel Combustion. **2013**, 989-998

108 Experimental Study of Volatile-N Conversion at O₂/CO₂ Atmosphere in a Drop Tube Furnace. **2013**, 371-376

107 Numerical Investigation on IRZ Dimension and Optimization of a 0.3 MWT Swirl Oxy-Firing Flame in High Confinements. **2013**, 1261-1266

106 Investigation of a High Pressure Oxy-Coal Process. **2013**, 111-120

1

105 Effect of Atmosphere on Volatile Emission Characteristic in Oxy-Fuel Combustion. **2013**, 05, 135-139

104 Clean Coal Technologies for Power Generation. 579-644

103 Combustion Process and Air Emission Formation. **2014**, 195-226

102 Analysis of the Effect of Particle Size and Humidity on Reaction Characteristics of CaCO₃ Sorbent Particle under Air and O₂/CO₂ Atmospheric Conditions. **2014**, 10, 75-82

101 Towards Large Multi-scale Particle Simulations with Conjugate Heat Transfer on Heterogeneous Super Computers. **2015**, 307-319

100 Oxy-Fuel Firing Technology for Power Generation. **2015**, 1-24

99 Die letzte Herausforderung für kohlegefeuerte Kraftwerke: CO₂-Bequestrierung. **2016**, 327-336

98 Entwicklungsabschnitte des Kraftwerkbaus. **2016**, 45-177

97 Characteristics of Submicron Particulate Matters Formed in the Early Stage of Oxy-Fuel Coal Combustion. **2016**, 189-195

96 Oxy-Fuel Firing Technology for Power Generation. **2017**, 2527-2555

1

95 Clean Electricity, Dirty Electricity: The Effect on Local House Prices.

94 Kok Fırın Gazı ve Jeneratör Gazları Oksijenle Zenginleştirilmi Yanmas Sayısı Bir Alınır.

93 Comparison of thermodynamical potentials of oxy-fuel combustion and regenerative combustion. **2018**, 84, 18-00070-18-00070

92 Introduction. **2019**, 1-33

91 Chapter 6. Oxy-fuel Combustion Capture Technology. **2019**, 168-188

90	Experimental Research of Diffusion Combustion and Emissions Characteristics Under Oxy-Fuel Combustion Mode. 2020 , 142,	3
89	Comparative 3-E (Energy, Exergy & Environmental) Analysis of Oxy-Coal and Air-Coal Combustion based 500 MWe Supercritical Steam Power Plants with CO ₂ Capture. 2020 , 5, 652-662	
88	A Study on the Performance and Emissions of HCCI Oxy-Fuel Combustion in a CFR Engine with Recirculated Carbon Dioxide.	0
87	Conversion of volatile nitrogen and char nitrogen to NO in oxy-biomass combustion. 2021 ,	1
86	Hybrid Membrane and Porous-Plates Reactors for Gas Turbine Applications. 2020 , 321-417	1
85	Solar Fuels via Two-Step Thermochemical Redox Cycles. 2020 , 31-84	
84	Gas-phase mass transfer coefficient of CO ₂ in different alkanolamine solutions within packed-bed absorption column. 2020 ,	2
83	References. 285-306	
82	Developing Trending Toward Ecological Coal Utilization. 2022 , 19-36	
81	Recent advances in potassium-based adsorbents for CO ₂ capture and separation: a review. 2021 , 100011	9
80	Bir Karbon Tutulum Depolama Teknolojisi-Oksiyanma ve Akışkan Yataklı Sistemde Deneysel Olarak İncelenmesi. 2020 , 22, 715-723	
79	Optimization of oxy-fuel circulating fluidized bed combustion system with high oxygen concentration. 2022 , 8, 83-90	0
78	Review on the recent structural advances in open and closed systems for carbon capture through algae. 2021 , 100032	5
77	A review on materials and processes for carbon dioxide separation and capture. 0958305X2110509	0
76	Technological Advances in the Transformative Utilization of CO ₂ to Value-added Products. 2021 , 106922	1
75	Modeling of single-particle char combustion under O ₂ /H ₂ O conditions: Effects of temperature and steam concentration. 2022 , 227, 107131	1
74	Nitrogen evolution, NO _x formation and reduction in pressurized oxy coal combustion. 2022 , 157, 112020	1
73	Temperature and NO _x distribution characteristics of coal particles under high-temperature and low-oxygen environments simulating MILD oxy-coal combustion conditions. 2022 , 101, 73-86	0

72	Big data analysis of unburned carbon in fly ash for the optimization in a coal-fired power plant. 2020,	
71	Analysis of the Single Coal Particle Combustion Process under O ₂ /CO ₂ Atmosphere Based on Spectral Diagnostics Technology: Combination of Spectroscopic Characteristics and Flame Temperature. 2022, 36, 1697-1706	0
70	Temperature-dependence of oxidation and carburization of Grade 91 steel in CO ₂ containing impurities. 2022, 198, 110147	0
69	A comprehensive review on efficient utilization methods of High-alkali coals combustion in boilers. 2022, 316, 123269	3
68	Simultaneous investigation of coal ignition and soot formation in two-stage O ₂ /N ₂ and O ₂ /CO ₂ atmospheres. 2022, 314, 122808	1
67	Volatile Releasing Characteristics of Pulverized Coals under Moderate or Intense Low-Oxygen Dilution Oxy-Combustion Conditions in a Flat-Flame Assisted Entrained Flow Reactor. 2022, 10, 358	0
66	Experimental and Numerical Study on the Combustion Characteristics of a Laminar Non-Premixed Methane Jet Flame in Oxygen/Carbon Dioxide Coflow. 2022, 10,	
65	Thermogravimetric and kinetic study of thermal degradation of various types of municipal solid waste (MSW) under N ₂ , CO ₂ and oxy-fuel conditions. 2022, 248, 123573	2
64	Using dissipation factor method in testing the ash sintering process of cereal pellet and coal fuels. 2022, 250, 123718	0
63	Comprehensive study on the effect of CO ₂ on coal pyrolysis at fast heating rate. 2021, 7, 1369-1378	0
62	Carbon Capture Cycles. 2021, 717-752	
61	Clean Electricity, Dirty Electricity: The Effect on Local House Prices. 1	
60	Changes in the energy production to reduce the environmental impact. 2021, 15, 41-52	
59	Simulation of CO ₂ Capture Process in Flue Gas from Oxy-Fuel Combustion Plant and Effects of Properties of Absorbent. 2022, 9, 95	0
58	Investigation on the application of by-product steam in iron ore sintering: performance and function mechanism.. 2022, 1	
57	The effect of carbon dioxide on the reactivity of H ₂ /CO oxy-fuel combustion. 2022, 44, 1	
56	Review on thermal conversion characteristics of coal in O ₂ /H ₂ O atmosphere. 2022, 232, 107266	0
55	Introduction to carbon capture. 2022, 1-31	

- 54 A review on CO₂ capture with chilled ammonia and CO₂ utilization in urea plant. **2022**, 61, 102030 1
- 53 Suppression of the Phenolic Soa Formation in the Presence of Electrolytic Inorganic Seed.
- 52 Oxy-fuel Firing Technology for Power Generation and Heat and Steam Production. **2022**, 1625-1651
- 51 CO₂ capture and sequestration in porous media with SiO₂ aerogel nanoparticle-stabilized foams. **2022**, 324, 124661 1
- 50 Oxygen production routes assessment for oxy-fuel combustion. **2022**, 254, 124303 0
- 49 The Global Carbon Footprint and How New Carbon Mineralization Technologies Can Be Used to Reduce CO₂ Emissions. **2022**, 6, 44 1
- 48 Recent developments in CO₂ capture, utilization, related materials, and challenges. 1
- 47 Biochar Synergistic New Ammonia Capture of CO₂ and High-Value Utilization of Intermediate Products.
- 46 CuO modified KIT-6 as a high-efficiency catalyst for energy-efficient amine solvent regeneration. **2022**, 121702 2
- 45 Experimental investigation on the oxidation process and mechanism of steel billet under oxygen-enriched combustion atmosphere. **2022**, 44, 6271-6285
- 44 An experimental study of NO reduction by real biogas reburning at high temperature under oxy-fuel complex atmosphere. **2022**, 326, 124988 0
- 43 Self-optimizing control and safety assessment to achieve economic and safe operation for oxy-fuel combustion boiler island systems. **2022**, 323, 119397 0
- 42 Characteristics of oxy-methane flame in an axial/tangential swirl jet burner. **2022**, 139, 110732
- 41 Heat transfer and its influence on MILD combustion. **2022**, 181-219
- 40 Thermal performance and heat transfer characteristics analyses of oxy-biogas combustion in a swirl stabilized boiler under various oxidizing environments. **2022**, 125206 0
- 39 Modification of a 240 kWth grate incineration system for oxyfuel combustion of wood chips. **2022**, 104, 80-88
- 38 Suppression of the phenolic SOA formation in the presence of electrolytic inorganic seed. **2022**, 851, 158082
- 37 Comparison of oxy-fuel preheated combustion characteristics of high- and low- volatility carbon-based fuels. **2022**, 330, 125583 0

36	A ReaxFF study of the effect of pressure on the contribution of char-CO ₂ gasification to char conversion during pressurized oxy-fuel combustion. 2022 , 329, 125439	0
35	Regulation of organic hydrocarbon pollutants in coal volatiles combustion with CO ₂ addition. 2022 , 374, 133904	0
34	BaCoO ₃ perovskite-type oxygen carrier for chemical looping air separation, part I: Determination of oxygen non-stoichiometry and cyclic stability of oxygen carrier. 2022 , 302, 121972	0
33	Community Analysis of Bifurcation Maps of Diluted Hydrogen Combustion in WSRs.	0
32	Solid fuels flameless combustion. 2022 , 505-552	1
31	Co ₂ Coverage Accelerates Oxygen Removal in Oxy-Combustion Systems.	0
30	Numerical simulation on co-firing ultra-low volatile carbon-based fuels with bituminous coal under oxy-fuel condition. 2023 , 332, 126087	0
29	A Critical Analysis of the Oxy-Combustion Process: From Mathematical Models to Combustion Product Analysis. 2022 , 15, 6514	0
28	Quantifying the effect of CO ₂ gasification on pulverized coal char oxy-fuel combustion. 2022 ,	0
27	Effect of Intake Charge Temperature On Oxy-Fuel Combustion (OFC) in an HCCI Diesel Engine Under Different CO ₂ Dilutions. 2022 ,	0
26	Dynamic and kinetic studies on the oxy-coal combustion using multi-parameter high-speed diagnostics. 2022 , 327, 120065	0
25	Computational Fluid Dynamics (CFD) investigation on associated effect of classifier blades lengths and opening angles on coal classification efficiency in coal pulverizer. 2022 , 6, 100266	1
24	Graphene aerogel loaded with CeO ₂ as a catalyst for selective catalytic reduction of NO _x with NH ₃ at low temperature. 2023 , 937, 168409	0
23	Review of Carbon Capture and Methane Production from Carbon Dioxide. 2022 , 13, 1958	0
22	Combustion Characteristics and NO Emissions during Co-Combustion of Coal Gangue and Coal Slime in O ₂ /CO ₂ Atmospheres.	0
21	Particle Size Distribution and Enrichment of Alkali and Heavy Metals in Fly Ash on Air and Oxy-Fuel Conditions from Sludge Combustion. 2023 , 16, 145	0
20	Effect of External Mineral Addition on PM Generated from Zhundong Coal Combustion. 2023 , 16, 730	0
19	CFD-aided optimization of the decomposition kinetics of cement raw meals under high CO ₂ concentrations. 2023 , 242, 107651	0

- 18 Characterization of A Swirl Flex Fuel Combustor in a CO₂ Diluted Environment. **2023**, ○
- 17 Carbonation of fly ash. **2023**, 267-325 ○
- 16 Char-CO₂ reaction behaviour and interactions of coal gangue/weathered coal and coal gangue/pine sawdust blends. ○
- 15 Reviewing Energy Generation. ○
- 14 Molecular dynamics simulation on CH₄ combustion in CO₂/O₂/N₂ atmosphere subjected to electric field. 1-7 ○
- 13 Design of a carbon capture system for oxy-fuel combustion in compression ignition engines with exhaust water recirculation. **2023**, 284, 116979 ○
- 12 Analysis on influencing factors and improvement of thermal efficiency of bagasse boilers based on performance test data. **2023**, 271, 127099 ○
- 11 Current status of carbon capture, utilization, and storage technologies in the global economy: A survey of technical assessment. **2023**, 342, 127776 ○
- 10 Experimental and kinetic study of N₂O thermal decomposition in pressurized oxy-combustion. **2023**, 346, 128323 ○
- 9 Experimental and numerical study on the ignition delay times of methane/propane mixtures diluted in carbon dioxide. **2023**, 343, 127991 ○
- 8 CO₂ coverage on Pd catalysts accelerates oxygen removal in oxy-combustion systems. **2023**, 25, 6527-6536 ○
- 7 Oxy-fuel combustion of pulverized coal in an industrial boiler with a tangentially fired furnace. **2023**, 124, 103861 ○
- 6 Meso- and micro-scale combustion instability and flame characteristics. **2023**, 741-829 ○
- 5 Application of biochar and carbon-based adsorbent for CO₂ capture. **2023**, 239-269 ○
- 4 Reduction potential of the energy penalty for CO₂ capture in CCS. ○
- 3 OCAC Technology in Oxy-Fuel Combustion for Carbon Capture. **2023**, 65-77 ○
- 2 Drag increase and turbulence augmentation in two-way coupled particle-laden wall-bounded flows. **2023**, 35, 045133 ○
- 1 LaGaO₃-based composite membrane with high oxygen permeability. **2023**, 318, 123919 ○

