Edward J. Anthony

List of Publications by Year
in descending order

440 papers	27,610 citations	7069 78 h-index	7931 149 g-index
486 all docs	486 docs citations	486 times ranked	16128 citing authors

#	Article	IF	Citations
1	Carbon capture and storage (CCS): the way forward. Energy and Environmental Science, 2018, 11, 1062-1176.	15.6	2,378
2	Carbon capture and storage update. Energy and Environmental Science, 2014, 7, 130-189.	15.6	1,765
3	The calcium looping cycle for large-scale CO2 capture. Progress in Energy and Combustion Science, 2010, 36, 260-279.	15.8	856
4	An overview of advances in biomass gasification. Energy and Environmental Science, 2016, 9, 2939-2977.	15.6	844
5	Opportunities and challenges in sustainable treatment and resource reuse of sewage sludge: A review. Chemical Engineering Journal, 2018, 337, 616-641.	6.6	510
6	Progress in biofuel production from gasification. Progress in Energy and Combustion Science, 2017, 61, 189-248.	15.8	483
7	Lamella-nanostructured eutectic zincâ€“aluminum alloys as reversible and dendrite-free anodes for aqueous rechargeable batteries. Nature Communications, 2020, 11, 1634.	5.8	426
8	Fluidized Bed Combustion Systems Integrating CO2Capture with CaO. Environmental Science & Technology, 2005, 39, 2861-2866.	4.6	383
9	Biomass-based chemical looping technologies: the good, the bad and the future. Energy and Environmental Science, 2017, 10, 1885-1910.	15.6	382
10	Sulfation phenomena in fluidized bed combustion systems. Progress in Energy and Combustion Science, 2001, 27, 215-236.	15.8	371
11	Recent advances in carbon dioxide utilization. Renewable and Sustainable Energy Reviews, 2020, 125, 109799.	8.2	369
12	Thermal Activation of CaO-Based Sorbent and Self-Reactivation during CO₂ Capture Looping Cycles. Environmental Science & Technology, 2008, 42, 4170-4174.	4.6	358
13	Capture of CO2 from combustion gases in a fluidized bed of CaO. AICHE Journal, 2004, 50, 1614-1622.	1.8	328
14	Sorbent Cost and Performance in CO2Capture Systems. Industrial & Engineering Chemistry Research, 2004, 43, 3462-3466.	1.8	290
15	Steam Reactivation of Spent CaO-Based Sorbent for Multiple CO2Capture Cycles. Environmental Science & Technology, 2007, 41, 1420-1425.	4.6	286
16	Enhancement of CaO for CO2 capture in an FBC environment. Chemical Engineering Journal, 2003, 96, 187-195.	6.6	257
17	Calcium looping sorbents for CO2 capture. Applied Energy, 2016, 180, 722-742.	5.1	257
18	The effect of CaO sintering on cyclic CO₂ capture in energy systems. AICHE Journal, 2007, 53, 2432-2442.	1.8	256

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19	A review of developments in pilot-plant testing and modelling of calcium looping process for CO₂ capture from power generation systems. Energy and Environmental Science, 2015, 8, 2199-2249.	15.6	254
20	A review of techno-economic models for the retrofitting of conventional pulverised-coal power plants for post-combustion capture (PCC) of CO₂. Energy and Environmental Science, 2013, 6, 25-40.	15.6	239
21	Cost Structure of a Postcombustion CO2Capture System Using CaO. Environmental Science & Technology, 2007, 41, 5523-5527.	4.6	227
22	Improved Long-Term Conversion of Limestone-Derived Sorbents for In Situ Capture of CO2 in a Fluidized Bed Combustor. Industrial & Engineering Chemistry Research, 2004, 43, 5529-5539.	1.8	221
23	Fluidized bed combustion of alternative solid fuels; status, successes and problems of the technology. Progress in Energy and Combustion Science, 1995, 21, 239-268.	15.8	219
24	Carbonation of CaO-Based Sorbents Enhanced by Steam Addition. Industrial & Engineering Chemistry Research, 2010, 49, 9105-9110.	1.8	202
25	Influence of High-Temperature Steam on the Reactivity of CaO Sorbent for CO₂ Capture. Environmental Science & Technology, 2012, 46, 1262-1269.	4.6	199
26	Determination of intrinsic rate constants of the CaOâ€“CO2 reaction. Chemical Engineering Science, 2008, 63, 47-56.	1.9	189
27	Economics of CO2Capture Using the Calcium Cycle with a Pressurized Fluidized Bed Combustor. Energy & Fuels, 2007, 21, 920-926.	2.5	184
28	Ca-based sorbent looping combustion for CO2 capture in pilot-scale dual fluidized beds. Fuel Processing Technology, 2008, 89, 1386-1395.	3.7	179
29	Capturing CO2 in flue gas from fossil fuel-fired power plants using dry regenerable alkali metal-based sorbent. Progress in Energy and Combustion Science, 2013, 39, 515-534.	15.8	179
30	Solid Looping Cycles:â€‰ A New Technology for Coal Conversion. Industrial & Engineering Chemistry Research, 2008, 47, 1747-1754.	1.8	175
31	Influence of calcination conditions on carrying capacity of CaO-based sorbent in CO2 looping cycles. Fuel, 2009, 88, 1893-1900.	3.4	170
32	CaO-Based Pellets Supported by Calcium Aluminate Cements for High-Temperature CO₂ Capture. Environmental Science & Technology, 2009, 43, 7117-7122.	4.6	170
33	A Review of Chemicals to Produce Activated Carbon from Agricultural Waste Biomass. Sustainability, 2019, 11, 6204.	1.6	167
34	Review of arsenic behavior during coal combustion: Volatilization, transformation, emission and removal technologies. Progress in Energy and Combustion Science, 2018, 68, 1-28.	15.8	147
35	Emissions of SO₂ and NO_x during Oxyâˆ’Fuel CFB Combustion Tests in a Mini-Circulating Fluidized Bed Combustion Reactor. Energy & Fuels, 2010, 24, 910-915.	2.5	141
36	Removal of CO2by Calcium-Based Sorbents in the Presence of SO2. Energy & Fuels, 2007, 21, 163-170.	2.5	138

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37	Long-Term Calcination/Carbonation Cycling and Thermal Pretreatment for CO₂ Capture by Limestone and Dolomite. Energy & Fuels, 2009, 23, 1437-1444.	2.5	138
38	Advances in carbon capture, utilization and storage. Applied Energy, 2020, 278, 115627.	5.1	135
39	Investigation of Attempts to Improve Cyclic CO₂ Capture by Sorbent Hydration and Modification. Industrial & Engineering Chemistry Research, 2008, 47, 2024-2032.	1.8	134
40	Clean and efficient use of petroleum coke for combustion and power generation. Fuel, 2004, 83, 1341-1348.	3.4	129
41	On the Decay Behavior of the CO2Absorption Capacity of CaO-Based Sorbents. Industrial & Engineering Chemistry Research, 2005, 44, 627-629.	1.8	129
42	Long-Term Behavior of CaO-Based Pellets Supported by Calcium Aluminate Cements in a Long Series of CO₂ Capture Cycles. Industrial & Engineering Chemistry Research, 2009, 48, 8906-8912.	1.8	129
43	Mesostructured Intermetallic Compounds of Platinum and Nonâ€Transition Metals for Enhanced Electrocatalysis of Oxygen Reduction Reaction. Advanced Functional Materials, 2015, 25, 230-237.	7.8	127
44	Experimental Study of Oxy-Fuel Combustion and Sulfur Capture in a Mini-CFBC. Energy & Fuels, 2007, 21, 3160-3164.	2.5	124
45	High-Purity Hydrogen via the Sorption-Enhanced Steam Methane Reforming Reaction over a Synthetic CaO-Based Sorbent and a Ni Catalyst. Environmental Science & Technology, 2013, 47, 6007-6014.	4.6	119
46	Synthesis of g-C3N4 with heating acetic acid treated melamine and its photocatalytic activity for hydrogen evolution. Applied Surface Science, 2015, 354, 196-200.	3.1	117
47	Lime-Based Sorbents for High-Temperature CO2 Captureâ€"A Review of Sorbent Modification Methods. International Journal of Environmental Research and Public Health, 2010, 7, 3129-3140.	1.2	112
48	Enhanced hydrogen production from thermochemical processes. Energy and Environmental Science, 2018, 11, 2647-2672.	15.6	111
49	Experiences and results on a 0.8MWth oxy-fuel operation pilot-scale circulating fluidized bed. Applied Energy, 2012, 92, 343-347.	5.1	109
50	Attrition of Calcining Limestones in Circulating Fluidized-Bed Systems. Industrial & Engineering Chemistry Research, 2007, 46, 5199-5209.	1.8	108
51	A novel calcium looping absorbent incorporated with polymorphic spacers for hydrogen production and CO₂capture. Energy and Environmental Science, 2014, 7, 3291-3295.	15.6	108
52	Screening of Binders for Pelletization of CaO-Based Sorbents for CO₂Capture^{â€}. Energy & Fuels, 2009, 23, 4797-4804.	2.5	105
53	Ag₂O modified g-C₃N₄ for highly efficient photocatalytic hydrogen generation under visible light irradiation. Journal of Materials Chemistry A, 2015, 3, 15710-15714.	5.2	103
54	Clean combustion of solid fuels. Applied Energy, 2008, 85, 73-79.	5.1	101

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55	A discrete-pore-size-distribution-based gasâ€“solid model and its application to the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si53.gif" display="inline" overflow="scroll"><mml:mi>CaO</mml:mi><mml:mo>+</mml:mo><mml:msub><mml:mrow><mml:mi>CO</mml:mi></mml:mrow><mn reaction. Chemical Engineering Science, 2008, 63, 57-70.	1.9	101
56	CO₂ Looping Cycle Performance of a High-Purity Limestone after Thermal Activation/Doping. Energy & Fuels, 2008, 22, 3258-3264.	2.5	100
57	Design, process simulation and construction of an atmospheric dual fluidized bed combustion system for in situ CO2 capture using high-temperature sorbents. Fuel Processing Technology, 2005, 86, 1523-1531.	3.7	99
58	Extraordinary pseudocapacitive energy storage triggered by phase transformation in hierarchical vanadium oxides. Nature Communications, 2018, 9, 1375.	5.8	98
59	Harnessing the power of machine learning for carbon capture, utilisation, and storage (CCUS) â€“ a state-of-the-art review. Energy and Environmental Science, 2021, 14, 6122-6157.	15.6	98
60	Ca looping technology: current status, developments and future directions. , 2011, 1, 36-47.		95
61	Developments in calcium/chemical looping and metal oxide redox cycles for high-temperature thermochemical energy storage: A review. Fuel Processing Technology, 2020, 199, 106280.	3.7	95
62	Impact of Flue Gas Compounds on Microalgae and Mechanisms for Carbon Assimilation and Utilization. ChemSusChem, 2018, 11, 334-355.	3.6	92
63	Reactivation of limestone sorbents in FBC for SO2 capture. Progress in Energy and Combustion Science, 2007, 33, 171-210.	15.8	91
64	Biofuel Production Using Thermochemical Conversion of Heavy Metal-Contaminated Biomass (HMCB) Harvested from Phytoextraction Process. Chemical Engineering Journal, 2019, 358, 759-785.	6.6	91
65	Sequential SO2/CO2 capture enhanced by steam reactivation of a CaO-based sorbent. Fuel, 2008, 87, 1564-1573.	3.4	90
66	Steam hydration of sorbents from a dual fluidized bed CO2 looping cycle reactor. Fuel, 2008, 87, 3344-3352.	3.4	90
67	NO emission during co-firing coal and biomass in an oxy-fuel circulating fluidized bed combustor. Fuel, 2015, 150, 8-13.	3.4	90
68	Durability of CaOâ€“CaZrO₃ Sorbents for High-Temperature CO₂ Capture Prepared by a Wet Chemical Method. Energy & Fuels, 2014, 28, 1275-1283.	2.5	89
69	Mesoporous MgO promoted with NaNO3/NaNO2 for rapid and high-capacity CO2 capture at moderate temperatures. Chemical Engineering Journal, 2018, 332, 216-226.	6.6	88
70	Observation of simultaneously low CO, NOx and SO2 emission during oxy-coal combustion in a pressurized fluidized bed. Fuel, 2019, 242, 374-381.	3.4	87
71	Carbonation of fly ash in oxy-fuel CFB combustion. Fuel, 2008, 87, 1108-1114.	3.4	85
72	Effects of impurities on CO2 transport, injection and storage. Energy Procedia, 2011, 4, 3071-3078.	1.8	85

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73	Spray Water Reactivation/Pelletization of Spent CaO-based Sorbent from Calcium Looping Cycles. Environmental Science & Technology, 2012, 46, 12720-12725.	4.6	85
74	Enhanced CO2 capture by biomass-templated Ca(OH)2-based pellets. Chemical Engineering Journal, 2015, 274, 69-75.	6.6	85
75	CO2 capture performance of calcium-based synthetic sorbent with hollow core-shell structure under calcium looping conditions. Applied Energy, 2018, 225, 402-412.	5.1	84
76	Parametric Study on the CO2 Capture Capacity of CaO-Based Sorbents in Looping Cycles. Energy & Fuels, 2008, 22, 1851-1857.	2.5	83
77	Integration of Calcium and Chemical Looping Combustion using Composite CaO/CuO-Based Materials. Environmental Science & Technology, 2011, 45, 10750-10756.	4.6	82
78	Reactivation and remaking of calcium aluminate pellets for CO2 capture. Fuel, 2011, 90, 233-239.	3.4	81
79	Influence of Steam Injection during Calcination on the Reactivity of CaO-Based Sorbent for Carbon Capture. Industrial & Engineering Chemistry Research, 2013, 52, 2241-2246.	1.8	81
80	Kinetics, Product Evolution, and Mechanism for the Pyrolysis of Typical Plastic Waste. ACS Sustainable Chemistry and Engineering, 2022, 10, 91-103.	3.2	80
81	Characterization of ashes from a 100kWth pilot-scale circulating fluidized bed with oxy-fuel combustion. Applied Energy, 2011, 88, 2940-2948.	5.1	79
82	Microalgae cultivation and metabolites production: a comprehensive review. Biofuels, Bioproducts and Biorefining, 2018, 12, 304-324.	1.9	79
83	CO₂ Carrying Behavior of Calcium Aluminate Pellets under High-Temperature/High-CO₂ Concentration Calcination Conditions. Industrial & Engineering Chemistry Research, 2010, 49, 6916-6922.	1.8	78
84	Effect of Pelletization and Addition of Steam on the Cyclic Performance of Carbon-Templated, CaO-Based CO₂ Sorbents. Environmental Science & Technology, 2014, 48, 5322-5328.	4.6	78
85	SBA-15 supported Ni-Co bimetallic catalysts for enhanced hydrogen production during cellulose decomposition. Applied Catalysis B: Environmental, 2011, 101, 522-530.	10.8	76
86	A study of thermal-cracking behavior of asphaltenes. Chemical Engineering Science, 2003, 58, 157-162.	1.9	72
87	Process simulations of blue hydrogen production by upgraded sorption enhanced steam methane reforming (SE-SMR) processes. Energy Conversion and Management, 2020, 222, 113144.	4.4	72
88	CO₂ Capture from Simulated Syngas via Cyclic Carbonation/Calcination for a Naturally Occurring Limestone: Pilot-Plant Testing. Industrial & Engineering Chemistry Research, 2009, 48, 8431-8440.	1.8	71
89	The Effect of Steam on the Fast Carbonation Reaction Rates of CaO. Industrial & Engineering Chemistry Research, 2012, 51, 2478-2482.	1.8	71
90	Fabrication and molecular dynamics analyses of highly thermal conductive reduced graphene oxide films at ultra-high temperatures. Nanoscale, 2017, 9, 2340-2347.	2.8	71

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91	High-temperature CO2 capture cycles for CaO-based pellets with kaolin-based binders. International Journal of Greenhouse Gas Control, 2012, 6, 164-170.	2.3	70
92	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mrow><mml:mi mathvariant="normal">CO</mml:mi></mml:mrow></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mm looping cycles with CaO-based sorbent pretreated in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" display="inline" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mrow><mml:mi mathvariant="normal.	1.9	69
93	Synthesis and Characterization of CaO Nanopods for High Temperature CO2 Capture. Industrial & Engineering Chemistry Research, 2009, 48, 10765-10770.	1.8	69
94	Comparison of experimental results from three dual fluidized bed test facilities capturing CO2 with CaO. Energy Procedia, 2011, 4, 393-401.	1.8	69
95	On steam hydration of CaO-based sorbent cycled for CO2 capture. Fuel, 2015, 150, 269-277.	3.4	68
96	A technical evaluation, performance analysis and risk assessment of multiple novel oxy-turbine power cycles with complete CO2 capture. Journal of Cleaner Production, 2016, 133, 971-985.	4.6	67
97	From waste to high value utilization of spent bleaching clay in synthesizing high-performance calcium-based sorbent for CO2 capture. Applied Energy, 2018, 210, 117-126.	5.1	67
98	Competition of Sulphation and Carbonation Reactions during Looping Cycles for CO₂ Capture by CaO-Based Sorbents. Journal of Physical Chemistry A, 2010, 114, 3997-4002.	1.1	66
99	Pilot-Scale Study of CO₂ Capture by CaO-Based Sorbents in the Presence of Steam and SO₂. Industrial & Engineering Chemistry Research, 2012, 51, 7177-7184.	1.8	66
100	Modified lime-based pellet sorbents for high-temperature CO2 capture: Reactivity and attrition behavior. Fuel, 2012, 96, 454-461.	3.4	66
101	Nitrogen and sulfur conversion during pressurized pyrolysis under CO 2 atmosphere in fluidized bed. Fuel, 2017, 189, 98-106.	3.4	66
102	A study on the activity of CaO-based sorbents for capturing CO2 in clean energy processes. Applied Energy, 2010, 87, 1453-1458.	5.1	65
103	Core-in-Shell CaO/CuO-Based Composite for CO₂ Capture. Industrial & Engineering Chemistry Research, 2011, 50, 12384-12391.	1.8	65
104	Alkali Metal CO₂ Sorbents and the Resulting Metal Carbonates: Potential for Process Intensification of Sorption-Enhanced Steam Reforming. Environmental Science & Technology, 2017, 51, 12-27.	4.6	65
105	Self-activated, nanostructured composite for improved CaL-CLC technology. Chemical Engineering Journal, 2018, 351, 1038-1046.	6.6	63
106	Experimental and Theoretical Investigation of Laser Pretreatment on Strengthening the Heterojunction between Carbon Fiber-Reinforced Plastic and Aluminum Alloy. ACS Applied Materials & Interfaces, 2019, 11, 22005-22014.	4.0	63
107	Health risk impacts analysis of fugitive aromatic compounds emissions from the working face of a municipal solid waste landfill in China. Environment International, 2016, 97, 15-27.	4.8	62
108	Effects of steam on the sulfation of limestone and NOx formation in an air- and oxy-fired pilot-scale circulating fluidized bed combustor. Fuel, 2012, 92, 107-115.	3.4	60

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109	Microemulsion-derived, nanostructured CaO/CuO composites with controllable particle grain size to enhance cyclic CO2 capture performance for combined Ca/Cu looping process. Chemical Engineering Journal, 2020, 393, 124716.	6.6	60
110	Mercury removal from coal combustion by Fenton reactions â€“ Part A: Bench-scale tests. Fuel, 2007, 86, 2789-2797.	3.4	59
111	Morphological Changes of Limestone Sorbent Particles during Carbonation/Calcination Looping Cycles in a Thermogravimetric Analyzer (TGA) and Reactivation with Steam. Energy & Fuels, 2010, 24, 2768-2776.	2.5	59
112	Assessment of limestone treatment with organic acids for CO2 capture in Ca-looping cycles. Fuel Processing Technology, 2013, 116, 284-291.	3.7	59
113	SO2Retention by Reactivated CaO-Based Sorbent from Multiple CO2Capture Cycles. Environmental Science & Technology, 2007, 41, 4435-4440.	4.6	58
114	Parametric Characterization of Air Gasification of Chlorella vulgaris Biomass. Energy & Fuels, 2017, 31, 2959-2969.	2.5	58
115	Steam hydration of CFBC ash and the effect of hydration conditions on reactivation. Fuel, 2004, 83, 1357-1370.	3.4	57
116	Scale-up challenges and opportunities for carbon capture by oxy-fuel circulating fluidized beds. Applied Energy, 2018, 232, 527-542.	5.1	57
117	Mesoporous Nitrogenâ€Doped Carbon Nanospheres as Sulfur Matrix and a Novel Chelateâ€Modified Separator for Highâ€Performance Roomâ€Temperature Naâ€S Batteries. Small, 2020, 16, e1907464.	5.2	57
118	Porous MgO-stabilized CaO-based powders/pellets via a citric acid-based carbon template for thermochemical energy storage in concentrated solar power plants. Chemical Engineering Journal, 2020, 390, 124163.	6.6	57
119	Novel CaOâ€“SiO₂ Sorbent and Bifunctional Ni/Coâ€“CaO/SiO₂ Complex for Selective H₂ Synthesis from Cellulose. Environmental Science & Technology, 2012, 46, 2976-2983.	4.6	56
120	The effect of SO2 on CO2 capture by CaO-based pellets prepared with a kaolin derived Al(OH)3 binder. Applied Energy, 2012, 92, 415-420.	5.1	56
121	Post-combustion CO2 capture by formic acid-modified CaO-based sorbents. International Journal of Greenhouse Gas Control, 2013, 16, 21-28.	2.3	56
122	A shrinking core model for steam hydration of CaO-based sorbents cycled for CO2 capture. Chemical Engineering Journal, 2016, 291, 298-305.	6.6	56
123	A facile one-pot synthesis of CaO/CuO hollow microspheres featuring highly porous shells for enhanced CO₂ capture in a combined Caâ€“Cu looping process via a template-free synthesis approach. Journal of Materials Chemistry A, 2019, 7, 21096-21105.	5.2	56
124	Techno-economic analysis of low-carbon hydrogen production by sorption enhanced steam methane reforming (SE-SMR) processes. Energy Conversion and Management, 2020, 226, 113530.	4.4	56
125	Reactivity of calcium sulfate from FBC systems. Fuel, 1997, 76, 321-327.	3.4	54
126	Sintering and Formation of a Nonporous Carbonate Shell at the Surface of CaO-Based Sorbent Particles during CO₂-Capture Cycles. Energy & Fuels, 2010, 24, 5790-5796.	2.5	54

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127	Commissioning of a 0.8MWth CFBC for oxy-fuel combustion. International Journal of Greenhouse Gas Control, 2012, 7, 240-243.	2.3	54
128	Carbonation performance of lime for cyclic CO 2 capture following limestone calcination in steam/CO 2 atmosphere. Applied Energy, 2014, 131, 499-507.	5.1	54
129	Modelling and comparison of calcium looping and chemical solvent scrubbing retrofits for CO 2 capture from coal-fired power plant. International Journal of Greenhouse Gas Control, 2015, 42, 226-236.	2.3	53
130	Computational fluid dynamic simulation of a sorption-enhanced palladium membrane reactor for enhancing hydrogen production from methane steam reforming. Energy, 2018, 147, 884-895.	4.5	53
131	Advanced ash management technologies for CFBC ash. Waste Management, 2003, 23, 503-516.	3.7	52
132	CO2 capture from syngas via cyclic carbonation/calcination for a naturally occurring limestone: Modelling and bench-scale testing. Chemical Engineering Science, 2009, 64, 3536-3543.	1.9	52
133	Steam-Enhanced Calcium Looping Cycles with Calcium Aluminate Pellets Doped with Bromides. Industrial & Engineering Chemistry Research, 2013, 52, 7677-7683.	1.8	52
134	Facile Synthesis of Non-Graphitizable Polypyrrole-Derived Carbon/Carbon Nanotubes for Lithium-ion Batteries. Scientific Reports, 2016, 6, 19317.	1.6	52
135	Experimental study on CO2 capture mechanisms using Na2ZrO3 sorbents synthesized by soft chemistry method. Chemical Engineering Journal, 2017, 313, 646-654.	6.6	52
136	The long term behaviour of CFBC ashâ€“water systems. Waste Management, 2002, 22, 99-111.	3.7	51
137	High CO₂ Storage Capacity in Alkaliâ€Promoted Hydrotalciteâ€Based Material: In Situ Detection of Reversible Formation of Magnesium Carbonate. Chemistry - A European Journal, 2010, 16, 12694-12700.	1.7	51
138	Enhancing properties of iron and manganese ores as oxygen carriers for chemical looping processes by dry impregnation. Applied Energy, 2016, 163, 41-50.	5.1	51
139	Ruâ€Doping Enhanced Electrocatalysis of Metalâ€“Organic Framework Nanosheets toward Overall Water Splitting. Chemistry - A European Journal, 2020, 26, 17091-17096.	1.7	51
140	Fundamental studies of carbon capture using CaO-based materials. Journal of Materials Chemistry A, 2019, 7, 9977-9987.	5.2	50
141	Hydration of combustion ashes â€” a chemical and physical study. Fuel, 2001, 80, 773-784.	3.4	49
142	Sequential Capture of CO2and SO2in a Pressurized TGA Simulating FBC Conditions. Environmental Science & Technology, 2007, 41, 2943-2949.	4.6	49
143	Reactivation of CaO-Based Sorbents for CO₂ Capture: Mechanism for the Carbonation of Ca(OH)₂. Industrial & Engineering Chemistry Research, 2011, 50, 10329-10334.	1.8	49
144	Reducing the greenhouse gas footprint of shale gas. Energy Policy, 2011, 39, 8196-8199.	4.2	49

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145	Enhanced Hydrogen Production from Sawdust Decomposition Using Hybrid-Functional Ni-CaO-Ca₂SiO₄ Materials. Environmental Science & Technology, 2017, 51, 11484-11492.	4.6	49
146	Pilot testing of enhanced sorbents for calcium looping with cement production. Applied Energy, 2018, 225, 392-401.	5.1	48
147	Applying machine learning algorithms in estimating the performance of heterogeneous, multi-component materials as oxygen carriers for chemical-looping processes. Chemical Engineering Journal, 2020, 387, 124072.	6.6	48
148	CFBC ash hydration studies. Fuel, 2005, 84, 1393-1397.	3.4	46
149	The effect of water on the sulphation of limestone. Fuel, 2010, 89, 2628-2632.	3.4	46
150	Flow behaviour of slags from coal and petroleum coke blends. Fuel, 2012, 97, 321-328.	3.4	46
151	Fouling in a 160MWe FBC boiler firing coal and petroleum coke. Fuel, 2001, 80, 1009-1014.	3.4	45
152	Artificial neural network model to predict slag viscosity over a broad range of temperatures and slag compositions. Fuel Processing Technology, 2010, 91, 831-836.	3.7	45
153	Single-crystalline Ni(OH)2nanosheets vertically aligned on a three-dimensional nanoporous metal for high-performance asymmetric supercapacitors. Journal of Materials Chemistry A, 2015, 3, 23412-23419.	5.2	45
154	CaO-Based Pellets with Oxygen Carriers and Catalysts. Energy & Fuels, 2011, 25, 4846-4853.	2.5	44
155	Performance of Coal Fly Ash Stabilized, CaO-based Sorbents under Different Carbonationâ€“Calcination Conditions. ACS Sustainable Chemistry and Engineering, 2015, 3, 2092-2099.	3.2	44
156	Sintering and Reactivity of CaCO3-Based Sorbents for In Situ CO2 Capture in Fluidized Beds under Realistic Calcination Conditions. Journal of Environmental Engineering, ASCE, 2009, 135, 404-410.	0.7	43
157	Facile Synthesis of an Ag₂Oâ€“ZnO Nanohybrid and Its High Photocatalytic Activity. ChemPlusChem, 2012, 77, 931-935.	1.3	43
158	Mesocellular-foam-silica-supported Ni catalyst: Effect of pore size on H2 production from cellulose pyrolysis. International Journal of Hydrogen Energy, 2012, 37, 9590-9601.	3.8	43
159	Agglomeration and strength development of deposits in CFBC boilers firing high-sulfur fuels. Fuel, 2000, 79, 1933-1942.	3.4	42
160	Investigation of Vanadium Compounds in Ashes from a CFBC Firing 100 Petroleum Coke. Energy & Fuels, 2002, 16, 397-403.	2.5	42
161	SO₂ Retention by CaO-Based Sorbent Spent in CO₂ Looping Cycles. Industrial & Engineering Chemistry Research, 2009, 48, 6627-6632.	1.8	42
162	Enhancement of Indirect Sulphation of Limestone by Steam Addition. Environmental Science & Technology, 2010, 44, 8781-8786.	4.6	42

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163	The effect of impurities in oxyfuel flue gas on CO2 storage capacity. International Journal of Greenhouse Gas Control, 2012, 11, 158-162.	2.3	41
164	Rational design of porous Sn nanospheres/N-doped carbon nanofibers as an ultra-stable potassium-ion battery anode material. Journal of Materials Chemistry A, 2021, 9, 5740-5750.	5.2	40
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