

Edward J. Anthony

List of Publications by Citations

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439
papers

21,161
citations

70
h-index

130
g-index

486
ext. papers

24,363
ext. citations

7.5
avg, IF

7.36
L-index

#	Paper	IF	Citations
439	Carbon capture and storage update. <i>Energy and Environmental Science</i> , 2014 , 7, 130-189	35.4	1404
438	Carbon capture and storage (CCS): the way forward. <i>Energy and Environmental Science</i> , 2018 , 11, 1062-1136	35.4	1368
437	The calcium looping cycle for large-scale CO ₂ capture. <i>Progress in Energy and Combustion Science</i> , 2010 , 36, 260-279	33.6	742
436	An overview of advances in biomass gasification. <i>Energy and Environmental Science</i> , 2016 , 9, 2939-2977	35.4	602
435	Progress in biofuel production from gasification. <i>Progress in Energy and Combustion Science</i> , 2017 , 61, 189-248	33.6	349
434	Fluidized bed combustion systems integrating CO ₂ capture with CaO. <i>Environmental Science & Technology</i> , 2005 , 39, 2861-6	10.3	341
433	Sulfation phenomena in fluidized bed combustion systems. <i>Progress in Energy and Combustion Science</i> , 2001 , 27, 215-236	33.6	330
432	Opportunities and challenges in sustainable treatment and resource reuse of sewage sludge: A review. <i>Chemical Engineering Journal</i> , 2018 , 337, 616-641	14.7	319
431	Thermal activation of CaO-based sorbent and self-reactivation during CO ₂ capture looping cycles. <i>Environmental Science & Technology</i> , 2008 , 42, 4170-4	10.3	318
430	Capture of CO ₂ from combustion gases in a fluidized bed of CaO. <i>AIChE Journal</i> , 2004 , 50, 1614-1622	3.6	293
429	Sorbent Cost and Performance in CO ₂ Capture Systems. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 3462-3466	3.9	272
428	Steam reactivation of spent CaO-based sorbent for multiple CO ₂ capture cycles. <i>Environmental Science & Technology</i> , 2007 , 41, 1420-5	10.3	264
427	Biomass-based chemical looping technologies: the good, the bad and the future. <i>Energy and Environmental Science</i> , 2017 , 10, 1885-1910	35.4	248
426	Enhancement of CaO for CO ₂ capture in an FBC environment. <i>Chemical Engineering Journal</i> , 2003 , 96, 187-195	14.7	232
425	The effect of CaO sintering on cyclic CO ₂ capture in energy systems. <i>AIChE Journal</i> , 2007 , 53, 2432-2442	3.6	230
424	Improved Long-Term Conversion of Limestone-Derived Sorbents for In Situ Capture of CO ₂ in a Fluidized Bed Combustor. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 5529-5539	3.9	212
423	A review of techno-economic models for the retrofitting of conventional pulverised-coal power plants for post-combustion capture (PCC) of CO ₂ . <i>Energy and Environmental Science</i> , 2013 , 6, 25-40	35.4	210

422	Cost structure of a postcombustion CO ₂ capture system using CaO. <i>Environmental Science & Technology</i> , 2007 , 41, 5523-7	10.3	209
421	Lamella-nanostructured eutectic zinc-aluminum alloys as reversible and dendrite-free anodes for aqueous rechargeable batteries. <i>Nature Communications</i> , 2020 , 11, 1634	17.4	195
420	A review of developments in pilot-plant testing and modelling of calcium looping process for CO ₂ capture from power generation systems. <i>Energy and Environmental Science</i> , 2015 , 8, 2199-2249	35.4	188
419	Carbonation of CaO-Based Sorbents Enhanced by Steam Addition. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 9105-9110	3.9	183
418	Fluidized bed combustion of alternative solid fuels; status, successes and problems of the technology. <i>Progress in Energy and Combustion Science</i> , 1995 , 21, 239-268	33.6	183
417	Calcium looping sorbents for CO ₂ capture. <i>Applied Energy</i> , 2016 , 180, 722-742	10.7	176
416	Influence of high-temperature steam on the reactivity of CaO sorbent for CO ₂ capture. <i>Environmental Science & Technology</i> , 2012 , 46, 1262-9	10.3	170
415	Solid Looping Cycles: A New Technology for Coal Conversion. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 1747-1754	3.9	166
414	Ca-based sorbent looping combustion for CO ₂ capture in pilot-scale dual fluidized beds. <i>Fuel Processing Technology</i> , 2008 , 89, 1386-1395	7.2	164
413	Determination of intrinsic rate constants of the CaO/CO ₂ reaction. <i>Chemical Engineering Science</i> , 2008 , 63, 47-56	4.4	163
412	Economics of CO ₂ Capture Using the Calcium Cycle with a Pressurized Fluidized Bed Combustor. <i>Energy & Fuels</i> , 2007 , 21, 920-926	4.1	156
411	CaO-based pellets supported by calcium aluminate cements for high-temperature CO ₂ capture. <i>Environmental Science & Technology</i> , 2009 , 43, 7117-22	10.3	155
410	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
409	Influence of calcination conditions on carrying capacity of CaO-based sorbent in CO ₂ looping cycles. <i>Fuel</i> , 2009 , 88, 1893-1900	7.1	148
408	Recent advances in carbon dioxide utilization. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 125, 109799	16.2	146
407	Removal of CO ₂ by Calcium-Based Sorbents in the Presence of SO ₂ . <i>Energy & Fuels</i> , 2007 , 21, 163-170	4.1	134
406	Emissions of SO ₂ and NO _x during OxyFuel CFB Combustion Tests in a Mini-Circulating Fluidized Bed Combustion Reactor. <i>Energy & Fuels</i> , 2010 , 24, 910-915	4.1	130
405	Investigation of Attempts to Improve Cyclic CO ₂ Capture by Sorbent Hydration and Modification. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 2024-2032	3.9	130

404	Long-Term Calcination/Carbonation Cycling and Thermal Pretreatment for CO ₂ Capture by Limestone and Dolomite. <i>Energy & Fuels</i> , 2009 , 23, 1437-1444	4.1	127
403	Long-Term Behavior of CaO-Based Pellets Supported by Calcium Aluminate Cements in a Long Series of CO ₂ Capture Cycles. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 8906-8912	3.9	122
402	On the Decay Behavior of the CO ₂ Absorption Capacity of CaO-Based Sorbents. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 627-629	3.9	121
401	Clean and efficient use of petroleum coke for combustion and power generation. <i>Fuel</i> , 2004 , 83, 1341-1348	3.8	118
400	Experimental Study of Oxy-Fuel Combustion and Sulfur Capture in a Mini-CFBC. <i>Energy & Fuels</i> , 2007 , 21, 3160-3164	4.1	116
399	Mesostructured Intermetallic Compounds of Platinum and Non-Transition Metals for Enhanced Electrocatalysis of Oxygen Reduction Reaction. <i>Advanced Functional Materials</i> , 2015 , 25, 230-237	15.6	113
398	High-purity hydrogen via the sorption-enhanced steam methane reforming reaction over a synthetic CaO-based sorbent and a Ni catalyst. <i>Environmental Science & Technology</i> , 2013 , 47, 6007-6014	10.3	101
397	Lime-based sorbents for high-temperature CO ₂ capture--a review of sorbent modification methods. <i>International Journal of Environmental Research and Public Health</i> , 2010 , 7, 3129-40	4.6	101
396	Experiences and results on a 0.8 MWth oxy-fuel operation pilot-scale circulating fluidized bed. <i>Applied Energy</i> , 2012 , 92, 343-347	10.7	98
395	Attrition of Calcining Limestones in Circulating Fluidized-Bed Systems. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 5199-5209	3.9	98
394	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
393	Clean combustion of solid fuels. <i>Applied Energy</i> , 2008 , 85, 73-79	10.7	94
392	Screening of Binders for Pelletization of CaO-Based Sorbents for CO ₂ Capture. <i>Energy & Fuels</i> , 2009 , 23, 4797-4804	4.1	93
391	Ag ₂ O modified g-C ₃ N ₄ for highly efficient photocatalytic hydrogen generation under visible light irradiation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15710-15714	13	92
390	A discrete-pore-size-distribution-based gas-solid model and its application to the . <i>Chemical Engineering Science</i> , 2008 , 63, 57-70	4.4	92
389	Synthesis of g-C ₃ N ₄ with heating acetic acid treated melamine and its photocatalytic activity for hydrogen evolution. <i>Applied Surface Science</i> , 2015 , 354, 196-200	6.7	88
388	Ca looping technology: current status, developments and future directions 2011 , 1, 36-47		88
387	Design, process simulation and construction of an atmospheric dual fluidized bed combustion system for in situ CO ₂ capture using high-temperature sorbents. <i>Fuel Processing Technology</i> , 2005 , 86, 1523-1531	7.2	87

386	A Review of Chemicals to Produce Activated Carbon from Agricultural Waste Biomass. <i>Sustainability</i> , 2019 , 11, 6204	3.6	86
385	CO ₂ Looping Cycle Performance of a High-Purity Limestone after Thermal Activation/Doping. <i>Energy & Fuels</i> , 2008 , 22, 3258-3264	4.1	84
384	Sequential SO ₂ /CO ₂ capture enhanced by steam reactivation of a CaO-based sorbent. <i>Fuel</i> , 2008 , 87, 1564-1573	7.1	83
383	Reactivation of limestone sorbents in FBC for SO ₂ capture. <i>Progress in Energy and Combustion Science</i> , 2007 , 33, 171-210	33.6	82
382	Steam hydration of sorbents from a dual fluidized bed CO ₂ looping cycle reactor. <i>Fuel</i> , 2008 , 87, 3344-3352	7.1	81
381	A novel calcium looping absorbent incorporated with polymorphic spacers for hydrogen production and CO ₂ capture. <i>Energy and Environmental Science</i> , 2014 , 7, 3291-3295	35.4	80
380	Durability of CaO/CaZrO ₃ Sorbents for High-Temperature CO ₂ Capture Prepared by a Wet Chemical Method. <i>Energy & Fuels</i> , 2014 , 28, 1275-1283	4.1	79
379	Extraordinary pseudocapacitive energy storage triggered by phase transformation in hierarchical vanadium oxides. <i>Nature Communications</i> , 2018 , 9, 1375	17.4	77
378	Parametric Study on the CO ₂ Capture Capacity of CaO-Based Sorbents in Looping Cycles. <i>Energy & Fuels</i> , 2008 , 22, 1851-1857	4.1	76
377	CO ₂ Carrying Behavior of Calcium Aluminate Pellets under High-Temperature/High-CO ₂ Concentration Calcination Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 6916-6922	3.9	75
376	Reactivation and remaking of calcium aluminate pellets for CO ₂ capture. <i>Fuel</i> , 2011 , 90, 233-239	7.1	75
375	Carbonation of fly ash in oxy-fuel CFB combustion. <i>Fuel</i> , 2008 , 87, 1108-1114	7.1	75
374	NO emission during co-firing coal and biomass in an oxy-fuel circulating fluidized bed combustor. <i>Fuel</i> , 2015 , 150, 8-13	7.1	74
373	Integration of calcium and chemical looping combustion using composite CaO/CuO-based materials. <i>Environmental Science & Technology</i> , 2011 , 45, 10750-6	10.3	73
372	Enhanced hydrogen production from thermochemical processes. <i>Energy and Environmental Science</i> , 2018 , 11, 2647-2672	35.4	72
371	Characterization of ashes from a 100kWth pilot-scale circulating fluidized bed with oxy-fuel combustion. <i>Applied Energy</i> , 2011 , 88, 2940-2948	10.7	71
370	Spray water reactivation/pelletization of spent CaO-based sorbent from calcium looping cycles. <i>Environmental Science & Technology</i> , 2012 , 46, 12720-5	10.3	70
369	Influence of Steam Injection during Calcination on the Reactivity of CaO-Based Sorbent for Carbon Capture. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 2241-2246	3.9	68

368	Effect of pelletization and addition of steam on the cyclic performance of carbon-templated, CaO-based CO ₂ sorbents. <i>Environmental Science & Technology</i> , 2014 , 48, 5322-8	10.3	67
367	CO ₂ Capture from Simulated Syngas via Cyclic Carbonation/Calcination for a Naturally Occurring Limestone: Pilot-Plant Testing. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 8431-8440	3.9	67
366	A study of thermal-cracking behavior of asphaltenes. <i>Chemical Engineering Science</i> , 2003 , 58, 157-162	4.4	66
365	The Effect of Steam on the Fast Carbonation Reaction Rates of CaO. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 2478-2482	3.9	64
364	SBA-15 supported Ni-Co bimetallic catalysts for enhanced hydrogen production during cellulose decomposition. <i>Applied Catalysis B: Environmental</i> , 2011 , 101, 522-530	21.8	64
363	A study on the activity of CaO-based sorbents for capturing CO ₂ in clean energy processes. <i>Applied Energy</i> , 2010 , 87, 1453-1458	10.7	63
362	Impact of Flue Gas Compounds on Microalgae and Mechanisms for Carbon Assimilation and Utilization. <i>ChemSusChem</i> , 2018 , 11, 334-355	8.3	63
361	Observation of simultaneously low CO, NO _x and SO ₂ emission during oxy-coal combustion in a pressurized fluidized bed. <i>Fuel</i> , 2019 , 242, 374-381	7.1	62
360	High-temperature CO ₂ capture cycles for CaO-based pellets with kaolin-based binders. <i>International Journal of Greenhouse Gas Control</i> , 2012 , 6, 164-170	4.2	62
359	Comparison of experimental results from three dual fluidized bed test facilities capturing CO ₂ with CaO. <i>Energy Procedia</i> , 2011 , 4, 393-401	2.3	62
358	Synthesis and Characterization of CaO Nanopods for High Temperature CO ₂ Capture. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 10765-10770	3.9	61
357	Developments in calcium/chemical looping and metal oxide redox cycles for high-temperature thermochemical energy storage: A review. <i>Fuel Processing Technology</i> , 2020 , 199, 106280	7.2	61
356	Enhanced CO ₂ capture by biomass-templated Ca(OH) ₂ -based pellets. <i>Chemical Engineering Journal</i> , 2015 , 274, 69-75	14.7	60
355	Modified lime-based pellet sorbents for high-temperature CO ₂ capture: Reactivity and attrition behavior. <i>Fuel</i> , 2012 , 96, 454-461	7.1	60
354	Competition of sulphation and carbonation reactions during looping cycles for CO ₂ capture by CaO-based sorbents. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 3997-4002	2.8	60
353	Pilot-Scale Study of CO ₂ Capture by CaO-Based Sorbents in the Presence of Steam and SO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 7177-7184	3.9	59
352	On steam hydration of CaO-based sorbent cycled for CO ₂ capture. <i>Fuel</i> , 2015 , 150, 269-277	7.1	58
351	Mesoporous MgO promoted with NaNO ₃ /NaNO ₂ for rapid and high-capacity CO ₂ capture at moderate temperatures. <i>Chemical Engineering Journal</i> , 2018 , 332, 216-226	14.7	58

350	Biofuel Production Using Thermochemical Conversion of Heavy Metal-Contaminated Biomass (HMCB) Harvested from Phytoextraction Process. <i>Chemical Engineering Journal</i> , 2019 , 358, 759-785	14.7	57
349	Effects of impurities on CO ₂ transport, injection and storage. <i>Energy Procedia</i> , 2011 , 4, 3071-3078	2.3	57
348	Core-in-Shell CaO/CuO-Based Composite for CO ₂ Capture. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 12384-12391	3.9	56
347	Nitrogen and sulfur conversion during pressurized pyrolysis under CO ₂ atmosphere in fluidized bed. <i>Fuel</i> , 2017 , 189, 98-106	7.1	55
346	Mercury removal from coal combustion by Fenton reactions [Part A: Bench-scale tests. <i>Fuel</i> , 2007 , 86, 2789-2797	7.1	55
345	Effects of steam on the sulfation of limestone and NO _x formation in an air- and oxy-fired pilot-scale circulating fluidized bed combustor. <i>Fuel</i> , 2012 , 92, 107-115	7.1	54
344	SO ₂ retention by reactivated CaO-based sorbent from multiple CO ₂ capture cycles. <i>Environmental Science & Technology</i> , 2007 , 41, 4435-40	10.3	54
343	CO ₂ capture performance of calcium-based synthetic sorbent with hollow core-shell structure under calcium looping conditions. <i>Applied Energy</i> , 2018 , 225, 402-412	10.7	54
342	Morphological Changes of Limestone Sorbent Particles during Carbonation/Calcination Looping Cycles in a Thermogravimetric Analyzer (TGA) and Reactivation with Steam. <i>Energy & Fuels</i> , 2010 , 24, 2768-2776	4.1	52
341	Assessment of limestone treatment with organic acids for CO ₂ capture in Ca-looping cycles. <i>Fuel Processing Technology</i> , 2013 , 116, 284-291	7.2	51
340	Carbonation performance of lime for cyclic CO ₂ capture following limestone calcination in steam/CO ₂ atmosphere. <i>Applied Energy</i> , 2014 , 131, 499-507	10.7	51
339	Sintering and Formation of a Nonporous Carbonate Shell at the Surface of CaO-Based Sorbent Particles during CO ₂ -Capture Cycles. <i>Energy & Fuels</i> , 2010 , 24, 5790-5796	4.1	51
338	Steam hydration of CFBC ash and the effect of hydration conditions on reactivation. <i>Fuel</i> , 2004 , 83, 1357-1370	13.70	51
337	Fabrication and molecular dynamics analyses of highly thermal conductive reduced graphene oxide films at ultra-high temperatures. <i>Nanoscale</i> , 2017 , 9, 2340-2347	7.7	49
336	Post-combustion CO ₂ capture by formic acid-modified CaO-based sorbents. <i>International Journal of Greenhouse Gas Control</i> , 2013 , 16, 21-28	4.2	49
335	Reactivity of calcium sulfate from FBC systems. <i>Fuel</i> , 1997 , 76, 321-327	7.1	49
334	A technical evaluation, performance analysis and risk assessment of multiple novel oxy-turbine power cycles with complete CO ₂ capture. <i>Journal of Cleaner Production</i> , 2016 , 133, 971-985	10.3	48
333	Commissioning of a 0.8 MWth CFBC for oxy-fuel combustion. <i>International Journal of Greenhouse Gas Control</i> , 2012 , 7, 240-243	4.2	48

332	The effect of SO ₂ on CO ₂ capture by CaO-based pellets prepared with a kaolin derived Al(OH) ₃ binder. <i>Applied Energy</i> , 2012 , 92, 415-420	10.7	48
331	CO ₂ capture from syngas via cyclic carbonation/calcination for a naturally occurring limestone: Modelling and bench-scale testing. <i>Chemical Engineering Science</i> , 2009 , 64, 3536-3543	4.4	48
330	From waste to high value utilization of spent bleaching clay in synthesizing high-performance calcium-based sorbent for CO ₂ capture. <i>Applied Energy</i> , 2018 , 210, 117-126	10.7	48
329	Facile Synthesis of Non-Graphitizable Polypyrrole-Derived Carbon/Carbon Nanotubes for Lithium-ion Batteries. <i>Scientific Reports</i> , 2016 , 6, 19317	4.9	47
328	Self-activated, nanostructured composite for improved CaL-CLC technology. <i>Chemical Engineering Journal</i> , 2018 , 351, 1038-1046	14.7	47
327	Novel CaO-SiO ₂ sorbent and bifunctional Ni/Co-CaO/SiO ₂ complex for selective H ₂ synthesis from cellulose. <i>Environmental Science & Technology</i> , 2012 , 46, 2976-83	10.3	46
326	Reactivation of CaO-Based Sorbents for CO ₂ Capture: Mechanism for the Carbonation of Ca(OH) ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 10329-10334	3.9	46
325	Sequential capture of CO ₂ and SO ₂ in a pressurized TGA simulating FBC conditions. <i>Environmental Science & Technology</i> , 2007 , 41, 2943-9	10.3	46
324	Alkali Metal CO Sorbents and the Resulting Metal Carbonates: Potential for Process Intensification of Sorption-Enhanced Steam Reforming. <i>Environmental Science & Technology</i> , 2017 , 51, 12-27	10.3	45
323	Modelling and comparison of calcium looping and chemical solvent scrubbing retrofits for CO ₂ capture from coal-fired power plant. <i>International Journal of Greenhouse Gas Control</i> , 2015 , 42, 226-236	4.2	45
322	Parametric Characterization of Air Gasification of Chlorella vulgaris Biomass. <i>Energy & Fuels</i> , 2017 , 31, 2959-2969	4.1	44
321	Experimental study on CO ₂ capture mechanisms using Na ₂ ZrO ₃ sorbents synthesized by soft chemistry method. <i>Chemical Engineering Journal</i> , 2017 , 313, 646-654	14.7	44
320	Microalgae cultivation and metabolites production: a comprehensive review. <i>Biofuels, Bioproducts and Biorefining</i> , 2018 , 12, 304-324	5.3	44
319	Enhancing properties of iron and manganese ores as oxygen carriers for chemical looping processes by dry impregnation. <i>Applied Energy</i> , 2016 , 163, 41-50	10.7	44
318	Steam-Enhanced Calcium Looping Cycles with Calcium Aluminate Pellets Doped with Bromides. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 7677-7683	3.9	44
317	The effect of water on the sulphation of limestone. <i>Fuel</i> , 2010 , 89, 2628-2632	7.1	44
316	A shrinking core model for steam hydration of CaO-based sorbents cycled for CO ₂ capture. <i>Chemical Engineering Journal</i> , 2016 , 291, 298-305	14.7	43
315	Advanced ash management technologies for CFBC ash. <i>Waste Management</i> , 2003 , 23, 503-16	8.6	43

314	Scale-up challenges and opportunities for carbon capture by oxy-fuel circulating fluidized beds. <i>Applied Energy</i> , 2018 , 232, 527-542	10.7	43
313	CaO-Based Pellets with Oxygen Carriers and Catalysts. <i>Energy & Fuels</i> , 2011 , 25, 4846-4853	4.1	42
312	The long term behaviour of CFBC ash-water systems. <i>Waste Management</i> , 2002 , 22, 99-111	8.6	42
311	CFBC ash hydration studies. <i>Fuel</i> , 2005 , 84, 1393-1397	7.1	42
310	Fouling in a 160 MWe FBC boiler firing coal and petroleum coke. <i>Fuel</i> , 2001 , 80, 1009-1014	7.1	42
309	Single-crystalline Ni(OH) ₂ nanosheets vertically aligned on a three-dimensional nanoporous metal for high-performance asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 23412-23419	4.9	40
308	Flow behaviour of slags from coal and petroleum coke blends. <i>Fuel</i> , 2012 , 97, 321-328	7.1	40
307	Reducing the greenhouse gas footprint of shale gas. <i>Energy Policy</i> , 2011 , 39, 8196-8199	7.2	40
306	Enhancement of indirect sulphation of limestone by steam addition. <i>Environmental Science & Technology</i> , 2010 , 44, 8781-6	10.3	40
305	SO ₂ Retention by CaO-Based Sorbent Spent in CO ₂ Looping Cycles. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 6627-6632	3.9	40
304	Sintering and Reactivity of CaCO ₃ -Based Sorbents for In Situ CO ₂ Capture in Fluidized Beds under Realistic Calcination Conditions. <i>Journal of Environmental Engineering, ASCE</i> , 2009 , 135, 404-410	2	40
303	High CO ₂ storage capacity in alkali-promoted hydrotalcite-based material: in situ detection of reversible formation of magnesium carbonate. <i>Chemistry - A European Journal</i> , 2010 , 16, 12694-700	4.8	40
302	Hydration of combustion ashes: a chemical and physical study. <i>Fuel</i> , 2001 , 80, 773-784	7.1	40
301	Facile Synthesis of an Ag ₂ O/ZnO Nanohybrid and Its High Photocatalytic Activity. <i>ChemPlusChem</i> , 2012 , 77, 931-935	2.8	39
300	Process simulations of blue hydrogen production by upgraded sorption enhanced steam methane reforming (SE-SMR) processes. <i>Energy Conversion and Management</i> , 2020 , 222, 113144	10.6	38
299	Computational fluid dynamic simulation of a sorption-enhanced palladium membrane reactor for enhancing hydrogen production from methane steam reforming. <i>Energy</i> , 2018 , 147, 884-895	7.9	37
298	Health risk impacts analysis of fugitive aromatic compounds emissions from the working face of a municipal solid waste landfill in China. <i>Environment International</i> , 2016 , 97, 15-27	12.9	37
297	A facile one-pot synthesis of CaO/CuO hollow microspheres featuring highly porous shells for enhanced CO ₂ capture in a combined Ca/Cu looping process via a template-free synthesis approach. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21096-21105	13	37

296	Mesocellular-foam-silica-supported Ni catalyst: Effect of pore size on H ₂ production from cellulose pyrolysis. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 9590-9601	6.7	37
295	Advances in carbon capture, utilization and storage. <i>Applied Energy</i> , 2020 , 278, 115627	10.7	36
294	Pelletized CaO-based sorbents treated with organic acids for enhanced CO ₂ capture in Ca-looping cycles. <i>International Journal of Greenhouse Gas Control</i> , 2013 , 17, 357-365	4.2	35
293	Enhanced Hydrogen Production from Sawdust Decomposition Using Hybrid-Functional Ni-CaO-CaSiO Materials. <i>Environmental Science & Technology</i> , 2017 , 51, 11484-11492	10.3	35
292	Mechanistic Insights into the Unique Role of Copper in CO Electroreduction Reactions. <i>ChemSusChem</i> , 2017 , 10, 387-393	8.3	34
291	Sulphation and carbonation properties of hydrated sorbents from a fluidized bed CO ₂ looping cycle reactor. <i>Fuel</i> , 2008 , 87, 2923-2931	7.1	34
290	Pacification of high calcic residues using carbon dioxide. <i>Waste Management</i> , 2000 , 20, 1-13	8.6	34
289	Performance of Coal Fly Ash Stabilized, CaO-based Sorbents under Different Carbonation/Calcination Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 2092-2099	8.3	33
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287	The effect of impurities in oxyfuel flue gas on CO ₂ storage capacity. <i>International Journal of Greenhouse Gas Control</i> , 2012 , 11, 158-162	4.2	33
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