

# Paul S Fennell

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/5268104/paul-s-fennell-publications-by-year.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. 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.

129  
papers

11,746  
citations

44  
h-index

108  
g-index

138  
ext. papers

14,039  
ext. citations

8.8  
avg, IF

6.44  
L-index

#	Paper	IF	Citations
129	Combining phytoremediation and biorefinery: Metal extraction from lead contaminated Miscanthus during pretreatment using the IonoSolv process. <i>Industrial Crops and Products</i> , <b>2022</b> , 176, 114259	5.9	0
128	Potassium carbonate-based ternary transition temperature mixture (deep eutectic analogues) for CO <sub>2</sub> absorption: Characterizations and DFT analysis. <i>Frontiers of Environmental Science and Engineering</i> , <b>2022</b> , 16, 1	5.8	2
127	Techno-economic assessment for a pumped thermal energy storage integrated with open cycle gas turbine and chemical looping technology. <i>Energy Conversion and Management</i> , <b>2022</b> , 255, 115332	10.6	0
126	A Comparative Study of Different Sorbents in the Context of Direct Air Capture (DAC): Evaluation of Key Performance Indicators and Comparisons. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 2618	2.6	2
125	Demetallization of Sewage Sludge Using Low-Cost Ionic Liquids. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 5291-5300	10.3	7
124	Decarbonizing cement production. <i>Joule</i> , <b>2021</b> , 5, 1305-1311	27.8	11
123	Co-precipitated Cu-Mn mixed metal oxides as oxygen carriers for chemical looping processes. <i>Chemical Engineering Journal</i> , <b>2021</b> , 407, 127093	14.7	5
122	Rhododendron and Japanese Knotweed: invasive species as innovative crops for second generation biofuels for the IonoSolv process.. <i>RSC Advances</i> , <b>2021</b> , 11, 18395-18403	3.7	6
121	Process intensification of the IonoSolv pretreatment: effects of biomass loading, particle size and scale-up from 10 mL to 1 L. <i>Scientific Reports</i> , <b>2021</b> , 11, 15383	4.9	3
120	Towards an environmentally and economically sustainable biorefinery: heavy metal contaminated waste wood as a low-cost feedstock in a low-cost ionic liquid process. <i>Green Chemistry</i> , <b>2020</b> , 22, 5032-5041	10.1	15
119	Assessing the economic viability of wetland remediation of wastewater, and the potential for parallel biomass valorisation. <i>Environmental Science: Water Research and Technology</i> , <b>2020</b> , 6, 2103-2121	4.2	1
118	Process Integration of Chemical Looping Water Splitting with a Sintering Plant for Iron Making. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 7021-7032	3.9	1
117	Fractionation by Sequential Antisolvent Precipitation of Grass, Softwood, and Hardwood Lignins Isolated Using Low-Cost Ionic Liquids and Water. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 3751-3761	8.3	22
116	Pressurized In Situ CO <sub>2</sub> Capture from Biomass Combustion via the Calcium Looping Process in a Spout-Fluidized-Bed Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 8571-8580	3.9	2
115	Design and techno-economic analysis of a fluidized bed-based CaO/Ca(OH) <sub>2</sub> thermochemical energy combined storage/discharge plant with concentrated solar power <b>2020</b> ,		1
114	High CO <sub>2</sub> absorption in new amine based-transition-temperature mixtures (deep eutectic analogues) and reporting thermal stability, viscosity and surface tension: Response surface methodology (RSM). <i>Journal of Molecular Liquids</i> , <b>2020</b> , 316, 113863	6	9
113	Enhancement of CaO-based sorbent for CO <sub>2</sub> capture through doping with seawater <b>2020</b> , 10, 878-883		3

112	Simulation of a 100-MW solar-powered thermo-chemical air separation system combined with an oxy-fuel power plant for bio-energy with carbon capture and storage (BECCS). <i>Mitigation and Adaptation Strategies for Global Change</i> , <b>2020</b> , 25, 539-557	3.9	4
111	Technologies and policies to decarbonize global industry: Review and assessment of mitigation drivers through 2070. <i>Applied Energy</i> , <b>2020</b> , 266, 114848	10.7	156
110	Comparative Energy Analysis of Renewable Electricity and Carbon Capture and Storage. <i>Joule</i> , <b>2019</b> , 3, 1406-1408	27.8	2
109	Quantitative glucose release from softwood after pretreatment with low-cost ionic liquids. <i>Green Chemistry</i> , <b>2019</b> , 21, 692-703	10	82
108	Kinetics Modeling, Development, and Comparison for the Reaction of Calcium Oxide with Steam. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 5505-5517	4.1	2
107	Efficient Fractionation of Lignin- and Ash-Rich Agricultural Residues Following Treatment With a Low-Cost Protic Ionic Liquid. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 246	5	22
106	Development and techno-economic analyses of a novel hydrogen production process via chemical looping. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 21251-21263	6.7	15
105	Iron-based chemical-looping technology for decarbonising iron and steel production. <i>International Journal of Greenhouse Gas Control</i> , <b>2019</b> , 91, 102766	4.2	8
104	Pressurised chemical-looping combustion of an iron-based oxygen carrier: Reduction kinetic measurements and modelling. <i>Fuel Processing Technology</i> , <b>2018</b> , 171, 205-214	7.2	11
103	Simple pyrolysis experiments for the preliminary assessment of biomass feedstocks and low-cost tar cracking catalysts for downdraft gasification applications. <i>Biomass and Bioenergy</i> , <b>2018</b> , 108, 398-414	5.3	17
102	Carbon capture and storage (CCS): the way forward. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 1062-1136	13.6	1368
101	Pressurized calcium looping in the presence of steam in a spout-fluidized-bed reactor with DFT analysis. <i>Fuel Processing Technology</i> , <b>2018</b> , 169, 24-41	7.2	28
100	Enhanced hydrogen production from thermochemical processes. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 2647-2672	35.4	72
99	Hydrogen Production by Sorption Enhanced Steam Reforming (SESR) of Biomass in a Fluidised-Bed Reactor Using Combined Multifunctional Particles. <i>Materials</i> , <b>2018</b> , 11,	3.5	13
98	Techno-economics of Biomass-based Power Generation with CCS Technologies for Deployment in 2050 <b>2018</b> , 93-113		
97	Impact of Flue Gas Compounds on Microalgae and Mechanisms for Carbon Assimilation and Utilization. <i>ChemSusChem</i> , <b>2018</b> , 11, 334-355	8.3	63
96	The feasibility of char and bio-oil production from pyrolysis of pit latrine sludge. <i>Environmental Science: Water Research and Technology</i> , <b>2018</b> , 4, 253-264	4.2	7
95	Pretreatment of South African sugarcane bagasse using a low-cost protic ionic liquid: a comparison of whole, depithed, fibrous and pith bagasse fractions. <i>Biotechnology for Biofuels</i> , <b>2018</b> , 11, 247	7.8	42

94	Net-zero emissions energy systems. <i>Science</i> , <b>2018</b> , 360,	33.3	606
93	Pilot testing of enhanced sorbents for calcium looping with cement production. <i>Applied Energy</i> , <b>2018</b> , 225, 392-401	10.7	31
92	CO2 capture and storage (CCS) cost reduction via infrastructure right-sizing. <i>Chemical Engineering Research and Design</i> , <b>2017</b> , 119, 130-139	5.5	23
91	Screening and techno-economic assessment of biomass-based power generation with CCS technologies to meet 2050 CO2 targets. <i>Applied Energy</i> , <b>2017</b> , 190, 481-489	10.7	90
90	Optimisation and evaluation of flexible operation strategies for coal- and gas-CCS power stations with a multi-period design approach. <i>International Journal of Greenhouse Gas Control</i> , <b>2017</b> , 59, 24-39	4.2	32
89	A Techno-economic analysis and systematic review of carbon capture and storage (CCS) applied to the iron and steel, cement, oil refining and pulp and paper industries, as well as other high purity sources. <i>International Journal of Greenhouse Gas Control</i> , <b>2017</b> , 61, 71-84	4.2	217
88	Evaluation of cooling requirements of post-combustion CO2 capture applied to coal-fired power plants. <i>Chemical Engineering Research and Design</i> , <b>2017</b> , 122, 1-10	5.5	12
87	Progress in biofuel production from gasification. <i>Progress in Energy and Combustion Science</i> , <b>2017</b> , 61, 189-248	33.6	349
86	An economically viable ionic liquid for the fractionation of lignocellulosic biomass. <i>Green Chemistry</i> , <b>2017</b> , 19, 3078-3102	10	225
85	Biomass-based chemical looping technologies: the good, the bad and the future. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 1885-1910	35.4	248
84	Density and Viscosity of Partially Carbonated Aqueous Solutions Containing a Tertiary Alkanolamine and Piperazine at Temperatures between 298.15 and 353.15 K. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2017</b> , 62, 2075-2083	2.8	8
83	The role of CO2 capture and utilization in mitigating climate change. <i>Nature Climate Change</i> , <b>2017</b> , 7, 243-249	21.4	436
82	A Techno-economic Analysis and Systematic Review of Carbon Capture and Storage (CCS) Applied to the Iron and Steel, Cement, Oil Refining and Pulp and Paper Industries. <i>Energy Procedia</i> , <b>2017</b> , 114, 6297-6302	2.3	8
81	Two-Phase Fluidized Bed Model for Pressurized Carbonation Kinetics of Calcium Oxide. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 11181-11193	4.1	10
80	LEILAC: Low Cost CO2 Capture for the Cement and Lime Industries. <i>Energy Procedia</i> , <b>2017</b> , 114, 6166-6170	2.0	20
79	Flexible Operation Strategies for Coal- and gas-CCS Power Stations under the UK and USA Markets. <i>Energy Procedia</i> , <b>2017</b> , 114, 6543-6551	2.3	3
78	Simultaneous design of separation sequences and whole process energy integration. <i>Chemical Engineering Research and Design</i> , <b>2017</b> , 125, 166-180	5.5	5
77	A parametric study of CO2 capture from gas-fired power plants using monoethanolamine (MEA). <i>International Journal of Greenhouse Gas Control</i> , <b>2017</b> , 63, 321-328	4.2	37

76	CO <sub>2</sub> capture by calcium aluminate pellets in a small fluidized bed. <i>Fuel Processing Technology</i> , <b>2016</b> , 142, 100-106	7.2	24
75	Spouted bed reactor for kinetic measurements of reduction of Fe <sub>2</sub> O <sub>3</sub> in a CO <sub>2</sub> /CO atmosphere Part I: Atmospheric pressure measurements and equipment commissioning. <i>Chemical Engineering Research and Design</i> , <b>2016</b> , 114, 307-320	5.5	15
74	Decarbonising the cement sector: A bottom-up model for optimising carbon capture application in the UK. <i>Journal of Cleaner Production</i> , <b>2016</b> , 139, 1351-1361	10.3	23
73	CCS - A technology for now: general discussion. <i>Faraday Discussions</i> , <b>2016</b> , 192, 125-151	3.6	4
72	CCS - A technology for the future: general discussion. <i>Faraday Discussions</i> , <b>2016</b> , 192, 303-335	3.6	2
71	End use and disposal of CO - storage or utilisation?: general discussion. <i>Faraday Discussions</i> , <b>2016</b> , 192, 561-579	3.6	8
70	Additive effects of steam addition and HBr doping for CaO-based sorbents for CO <sub>2</sub> capture. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2016</b> , 103, 21-26	3.7	30
69	An overview of advances in biomass gasification. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 2939-2977	35.4	602
68	Carbon Capture in the Cement Industry: Technologies, Progress, and Retrofitting. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 368-77	10.3	61
67	A shrinking core model for steam hydration of CaO-based sorbents cycled for CO <sub>2</sub> capture. <i>Chemical Engineering Journal</i> , <b>2016</b> , 291, 298-305	14.7	43
66	Phase evolution, characterisation, and performance of cement prepared in an oxy-fuel atmosphere. <i>Faraday Discussions</i> , <b>2016</b> , 192, 113-124	3.6	12
65	Investigations into the effects of volatile biomass tar on the performance of Fe-based CLC oxygen carrier materials. <i>Environmental Research Letters</i> , <b>2016</b> , 11, 115001	6.2	15
64	Production and applications of electric-arc-furnace slag as solid waste in environmental technologies: a review. <i>Environmental Technology Reviews</i> , <b>2016</b> , 5, 1-11	7.7	23
63	Degradation study of a novel polymorphic sorbent under realistic post-combustion conditions. <i>Fuel</i> , <b>2016</b> , 186, 708-713	7.1	19
62	Statistical analysis of the carbonation rate of concrete. <i>Cement and Concrete Research</i> , <b>2015</b> , 72, 98-107	10.3	36
61	Energy and exergy analysis of chemical looping combustion technology and comparison with pre-combustion and oxy-fuel combustion technologies for CO <sub>2</sub> capture. <i>Journal of Environmental Chemical Engineering</i> , <b>2015</b> , 3, 2104-2114	6.8	69
60	Solubility of CO <sub>2</sub> in aqueous amine solutions: A study to select solvents for carbon capture from natural-gas power plant <b>2015</b> , 1-10		
59	Density and Viscosity of Partially Carbonated Aqueous Tertiary Alkanolamine Solutions at Temperatures between (298.15 and 353.15) K. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2015</b> , 60, 2392-2399	2.8	36

58	On steam hydration of CaO-based sorbent cycled for CO <sub>2</sub> capture. <i>Fuel</i> , <b>2015</b> , 150, 269-277	7.1	58
57	A systematic investigation of the performance of copper-, cobalt-, iron-, manganese- and nickel-based oxygen carriers for chemical looping combustion technology through simulation models. <i>Chemical Engineering Science</i> , <b>2015</b> , 130, 79-91	4.4	30
56	Inhibiting the interaction between FeO and Al <sub>2</sub> O <sub>3</sub> during chemical looping production of hydrogen. <i>RSC Advances</i> , <b>2015</b> , 5, 1759-1771	3.7	59
55	Carbon capture and storage update. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 130-189	35.4	1404
54	A novel calcium looping absorbent incorporated with polymorphic spacers for hydrogen production and CO <sub>2</sub> capture. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 3291-3295	35.4	80
53	Tar Formation and Destruction in a Fixed Bed Reactor Simulating Downdraft Gasification: Effect of Reaction Conditions on Tar Cracking Products. <i>Energy &amp; Fuels</i> , <b>2014</b> , 28, 1970-1982	4.1	29
52	A review of the technologies, economics and policy instruments for decarbonising energy-intensive manufacturing industries. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 30, 616-640	16.2	138
51	Comparison of the structural motifs and packing arrangements of six novel derivatives and one polymorph of 2-(1-phenyl-1H-1,2,3-triazol-4-yl)pyridine. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , <b>2014</b> , 70, 379-89	1.8	9
50	Comparative Assessment of Gasification Based Coal Power Plants with Various CO Capture Technologies Producing Electricity and Hydrogen. <i>Energy &amp; Fuels</i> , <b>2014</b> , 28, 1028-1040	4.1	30
49	OxyCAP UK: Oxyfuel Combustion - academic Programme for the UK. <i>Energy Procedia</i> , <b>2014</b> , 63, 504-510	2.3	1
48	Solubility of carbon dioxide in aqueous blends of 2-amino-2-methyl-1-propanol and piperazine. <i>Chemical Engineering Science</i> , <b>2013</b> , 101, 851-864	4.4	36
47	Integrating Calcium Looping CO <sub>2</sub> Capture with the Manufacture of Cement. <i>Energy Procedia</i> , <b>2013</b> , 37, 7078-7090	2.3	16
46	Steam-Enhanced Calcium Looping Cycles with Calcium Aluminate Pellets Doped with Bromides. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 7677-7683	3.9	44
45	Improvement of Limestone-Based CO <sub>2</sub> Sorbents for Ca Looping by HBr and Other Mineral Acids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 1426-1433	3.9	48
44	Influence of high-temperature steam on the reactivity of CaO sorbent for CO <sub>2</sub> capture. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 1262-9	10.3	170
43	Effects of Different Dopants and Doping Procedures on the Reactivity of CaO-based Sorbents for CO <sub>2</sub> Capture. <i>Energy &amp; Fuels</i> , <b>2012</b> , 26, 6584-6594	4.1	45
42	Solubility of carbon dioxide in aqueous solution of monoethanolamine or 2-amino-2-methyl-1-propanol: Experimental measurements and modelling. <i>International Journal of Greenhouse Gas Control</i> , <b>2012</b> , 6, 37-47	4.2	78
41	CCS from industrial sources. <i>Sustainable Technologies Systems &amp; Policies</i> , <b>2012</b> , 17		9

40	The calcium looping cycle for CO <sub>2</sub> capture from power generation, cement manufacture and hydrogen production. <i>Chemical Engineering Research and Design</i> , <b>2011</b> , 89, 836-855	5.5	265
39	Reactivation of a CaO-based sorbent for CO <sub>2</sub> capture from stationary sources. <i>Proceedings of the Combustion Institute</i> , <b>2011</b> , 33, 2673-2681	5.9	35
38	Investigation into potential synergy between power generation, cement manufacture and CO <sub>2</sub> abatement using the calcium looping cycle. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 2050	35.4	98
37	Reactivation of CaO-Based Sorbents for CO <sub>2</sub> Capture: Mechanism for the Carbonation of Ca(OH) <sub>2</sub> . <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 10329-10334	3.9	46
36	Latter Stages of the Reduction of NO to N <sub>2</sub> on Particles of Fe while Simultaneously Oxidizing Fe to Its Oxides. <i>Energy &amp; Fuels</i> , <b>2011</b> , 25, 1510-1520	4.1	9
35	Combustion of polymer pellets in a bubbling fluidised bed. <i>Combustion and Flame</i> , <b>2011</b> , 158, 1638-1645	5.3	12
34	Calcium looping for CO <sub>2</sub> capture: sorbent enhancement through doping. <i>Energy Procedia</i> , <b>2011</b> , 4, 402-409	3.9	36
33	Synthetic CaO-based sorbent for CO <sub>2</sub> capture. <i>Energy Procedia</i> , <b>2011</b> , 4, 830-838	2.3	46
32	An overview of CO <sub>2</sub> capture technologies. <i>Energy and Environmental Science</i> , <b>2010</b> , 3, 1645	35.4	1183
31	Synthetic CaO-Based Sorbent for CO <sub>2</sub> Capture from Large-Point Sources. <i>Energy &amp; Fuels</i> , <b>2010</b> , 24, 4598-4604	4.1	95
30	Tar Formation and Destruction in a Fixed-Bed Reactor Simulating Downdraft Gasification: Equipment Development and Characterization of Tar-Cracking Products. <i>Energy &amp; Fuels</i> , <b>2010</b> , 24, 4560-4570	4.1	38
29	Co-firing of Single, Binary, and Ternary Fuel Blends: Comparing Synergies within Trace Element Partitioning Arrived at by Thermodynamic Equilibrium Modeling and Experimental Measurements. <i>Energy &amp; Fuels</i> , <b>2010</b> , 24, 2918-2923	4.1	11
28	Morphological Changes of Limestone Sorbent Particles during Carbonation/Calcination Looping Cycles in a Thermogravimetric Analyzer (TGA) and Reactivation with Steam. <i>Energy &amp; Fuels</i> , <b>2010</b> , 24, 2768-2776	4.1	52
27	Mechanism of Particle Breakage during Reactivation of CaO-Based Sorbents for CO <sub>2</sub> Capture. <i>Energy &amp; Fuels</i> , <b>2010</b> , 24, 4605-4616	4.1	63
26	Comparison of the behaviour of manufactured and other airborne nanoparticles and the consequences for prioritising research and regulation activities. <i>Journal of Nanoparticle Research</i> , <b>2010</b> , 12, 1523-1530	2.3	49
25	The calcium looping cycle for large-scale CO <sub>2</sub> capture. <i>Progress in Energy and Combustion Science</i> , <b>2010</b> , 36, 260-279	33.6	742
24	Street Versus Rooftop Level Concentrations of Fine Particles in a Cambridge Street Canyon. <i>Boundary-Layer Meteorology</i> , <b>2009</b> , 131, 3-18	3.4	40
23	Influence of calcination conditions on carrying capacity of CaO-based sorbent in CO <sub>2</sub> looping cycles. <i>Fuel</i> , <b>2009</b> , 88, 1893-1900	7.1	148

22	The order with respect to oxygen and the activation energy for the burning of an anthracitic char in O <sub>2</sub> in a fluidised bed, as measured using a rapid analyser for CO and CO <sub>2</sub> . <i>Proceedings of the Combustion Institute</i> , <b>2009</b> , 32, 2051-2058	5.9	30
21	Pseudo-simultaneous measurements for the vertical variation of coarse, fine and ultrafine particles in an urban street canyon. <i>Atmospheric Environment</i> , <b>2008</b> , 42, 4304-4319	5.3	91
20	Treatment of losses of ultrafine aerosol particles in long sampling tubes during ambient measurements. <i>Atmospheric Environment</i> , <b>2008</b> , 42, 8819-8826	5.3	71
19	Measurements of particles in the 5-1000 nm range close to road level in an urban street canyon. <i>Science of the Total Environment</i> , <b>2008</b> , 390, 437-47	10.2	79
18	Effect of wind direction and speed on the dispersion of nucleation and accumulation mode particles in an urban street canyon. <i>Science of the Total Environment</i> , <b>2008</b> , 402, 82-94	10.2	108
17	The Zero Emission Carbon Concept (ZECA): Extents of Reaction with Different Coals in Steam/Hydrogen, Tar Formation and Residual Char Reactivity. <i>Energy &amp; Fuels</i> , <b>2008</b> , 22, 2504-2511	4.1	12
16	Comparison of Different Natural Sorbents for Removing CO <sub>2</sub> from Combustion Gases, as Studied in a Bench-Scale Fluidized Bed. <i>Energy &amp; Fuels</i> , <b>2008</b> , 22, 3852-3857	4.1	35
15	On the drift-flux analysis of flotation and foam fractionation processes. <i>Canadian Journal of Chemical Engineering</i> , <b>2008</b> , 86, 635-642	2.3	11
14	Rise velocities of bubbles and slugs in gas-fluidised beds: Ultra-fast magnetic resonance imaging. <i>Chemical Engineering Science</i> , <b>2007</b> , 62, 82-93	4.4	32
13	Oscillations in gas-fluidized beds: Ultra-fast magnetic resonance imaging and pressure sensor measurements. <i>Powder Technology</i> , <b>2007</b> , 177, 87-98	5.2	34
12	The measurement of the rate of burning of different coal chars in an electrically heated fluidised bed of sand. <i>Chemical Engineering Science</i> , <b>2007</b> , 62, 608-618	4.4	36
11	The sampling of nanoparticles of MgO formed when doping an oxygen-rich flame with magnesium: The measurement of the concentrations and size-distributions of these nanoparticles. <i>Combustion and Flame</i> , <b>2007</b> , 151, 560-572	5.3	10
10	The size distributions of nanoparticles of the oxides of Mg, Ba and Al in flames: Their measurement and dependence on the concentrations of free radicals in the flame. <i>Proceedings of the Combustion Institute</i> , <b>2007</b> , 31, 1939-1945	5.9	5
9	Regeneration of sintered limestone sorbents for the sequestration of CO <sub>2</sub> from combustion and other systems. <i>Journal of the Energy Institute</i> , <b>2007</b> , 80, 116-119	5.7	108
8	The Effects of Repeated Cycles of Calcination and Carbonation on a Variety of Different Limestones, as Measured in a Hot Fluidized Bed of Sand. <i>Energy &amp; Fuels</i> , <b>2007</b> , 21, 2072-2081	4.1	223
7	Real-time measurement of bubbling phenomena in a three-dimensional gas-fluidized bed using ultrafast magnetic resonance imaging. <i>Physical Review Letters</i> , <b>2006</b> , 96, 154504	7.4	67
6	The nature of the flow just above the perforated plate distributor of a gas-fluidised bed, as imaged using magnetic resonance. <i>Chemical Engineering Science</i> , <b>2006</b> , 61, 6002-6015	4.4	59
5	Production of nanoparticles of MgO, BaO, and Al <sub>2</sub> O <sub>3</sub> in a premixed flame and its relation to the flame structure. <i>Combustion, Explosion and Shock Waves</i> , <b>2006</b> , 42, 642-648	1	1



4	The rate of gasification by CO <sub>2</sub> of chars from waste. <i>Proceedings of the Combustion Institute</i> , <b>2005</b> , 30, 2151-2159	5.9	40
3	A study of the mixing of solids in gas-fluidized beds, using ultra-fast MRI. <i>Chemical Engineering Science</i> , <b>2005</b> , 60, 2085-2088	4.4	32
2	The kinetics of the reduction of NO to N <sub>2</sub> by reaction with particles of Fe. <i>Proceedings of the Combustion Institute</i> , <b>2002</b> , 29, 2179-2185	5.9	16
1	A Review of Recent Research on Catalytic Biomass Pyrolysis and Low-Pressure Hydrolysis. <i>Energy &amp; Fuels</i> ,	4.1	3