

Paul D Cobden

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

863
citations

516710
16
h-index

713466
21
g-index

21
all docs

21
docs citations

21
times ranked

609
citing authors

#	ARTICLE	IF	CITATIONS
1	Steam and Pressure Management for the Conversion of Steelworks Arising Gases to H ₂ with CO ₂ Capture by Stepwise Technology. Separations, 2022, 9, 20.	2.4	4
2	A new application of the commercial high temperature water gas shift catalyst for reduction of CO ₂ emissions in the iron and steel industry: Lab-scale catalyst evaluation. International Journal of Hydrogen Energy, 2021, 46, 39023-39035.	7.1	9
3	Techno-economic assessment of SEWGS technology when applied to integrated steel-plant for CO ₂ emission mitigation. International Journal of Greenhouse Gas Control, 2020, 94, 102935.	4.6	42
4	Life Cycle Assessment of SEWGS Technology Applied to Integrated Steel Plants. Sustainability, 2019, 11, 1825.	3.2	11
5	STEPWISE Project: Sorption-Enhanced Water-Gas Shift Technology to Reduce Carbon Footprint in the Iron and Steel Industry. Johnson Matthey Technology Review, 2018, 62, 395-402.	1.0	13
6	On the influence of steam on the CO ₂ chemisorption capacity of a hydrotalcite-based adsorbent for SEWGS applications. Chemical Engineering Journal, 2017, 314, 554-569.	12.7	56
7	Cost Effective CO ₂ Reduction in the Iron & Steel Industry by Means of the SEWGS Technology: STEPWISE Project. Energy Procedia, 2017, 114, 6256-6265.	1.8	22
8	Sorption-Enhanced Water-Gas Shift. Advances in Chemical Engineering, 2017, , 1-96.	0.9	23
9	Chemisorption working capacity and kinetics of CO ₂ and H ₂ O of hydrotalcite-based adsorbents for sorption-enhanced water-gas-shift applications. Chemical Engineering Journal, 2016, 293, 9-23.	12.7	54
10	High-temperature pressure swing adsorption cycle design for sorption-enhanced water-gas shift. Chemical Engineering Science, 2015, 122, 219-231.	3.8	75
11	Isotherm model for high-temperature, high-pressure adsorption of and on K-promoted hydrotalcite. Chemical Engineering Journal, 2014, 248, 406-414.	12.7	78
12	SEWGS Technology is Now Ready for Scale-up!. Energy Procedia, 2013, 37, 2265-2273.	1.8	51
13	Qualification of the ALKASORB sorbent for the sorption-enhanced water-gas shift process. Energy Procedia, 2013, 37, 180-189.	1.8	21
14	Testing of hydrotalcite-based sorbents for CO ₂ and H ₂ S capture for use in sorption enhanced water gas shift. International Journal of Greenhouse Gas Control, 2011, 5, 505-511.	4.6	73
15	Improved sorbent for the sorption-enhanced water-gas shift process. Energy Procedia, 2011, 4, 1090-1095.	1.8	49
16	CAESAR: Development of a SEWGS model for IGCC. Energy Procedia, 2011, 4, 1147-1154.	1.8	29
17	SEWGS process cycle optimization. Energy Procedia, 2011, 4, 1155-1161.	1.8	22
18	Correlation between structural rearrangement of hydrotalcite-type materials and CO ₂ sorption processes under pre-combustion decarbonisation conditions. Energy Procedia, 2011, 4, 1162-1167.	1.8	16

#	ARTICLE	IF	CITATIONS
19	High CO ₂ Storage Capacity in Alkali-Promoted Hydrotalcite-Based Material: In Situ Detection of Reversible Formation of Magnesium Carbonate. Chemistry - A European Journal, 2010, 16, 12694-12700.	3.3	51
20	Modeling Study of the Sorption-Enhanced Reaction Process for CO ₂ Capture. II. Application to Steam-Methane Reforming. Industrial & Engineering Chemistry Research, 2009, 48, 6975-6982.	3.7	28
21	The Crucial Role of the K ⁺ -Aluminium Oxide Interaction in K ⁺ -Promoted Alumina and Hydrotalcite-Based Materials for CO ₂ Sorption at High Temperatures. ChemSusChem, 2008, 1, 643-650.	6.8	136