Christian Gaber

List of Publications by Year
in descending order

20 papers	353 citations	759233 12 h-index	839539 18 g-index
20 all docs	20 docs citations	20 times ranked	216 citing authors

#	Article	IF	Citations
1	Towards thermochemical recuperation applying combined steam reforming and partial oxidation of methane: Thermodynamic and experimental considerations. Energy Conversion and Management, 2022, 251, 114927.	9.2	8
2	Experimental investigation into stationary operated, thermochemical recuperation applied to a 200 kW industrial scale oxy-fuel furnace. Applied Thermal Engineering, 2022, 212, 118580.	6.0	2
3	CFD simulation aided glass quality and energy efficiency analysis of an oxy-fuel glass melting furnace with electric boosting. Energy Conversion and Management: X, 2022, 15, 100252.	1.6	0
4	Experimental investigation on H2S and SO2 sulphur poisoning and regeneration of a commercially available Ni-catalyst during methane tri-reforming. International Journal of Hydrogen Energy, 2021, 46, 3437-3452.	7.1	30
5	Experimental study on the influence of the nitrogen concentration in the oxidizer on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:mrow><mml:msub><mml:mtext>NO</mml:mtext><mml:mtext>x</mml:mtext></mml:msub></mml:mrow></m and CO emissions during the oxy-fuel combustion of natural gas. Energy, 2021, 214, 118905.	8.8	18
6	Towards a recuperative, stationary operated thermochemical reformer: Experimental investigations on the methane conversion and waste heat recovery. Applied Thermal Engineering, 2021, 183, 116121.	6.0	21
7	Validation of a coupled 3D CFD simulation model for an oxy-fuel cross-fired glass melting furnace with electric boosting. Applied Thermal Engineering, 2021, 195, 117166.	6.0	8
8	Fast and accurate CFD-model for NOx emission prediction during oxy-fuel combustion of natural gas using detailed chemical kinetics. Fuel, 2020, 264, 116841.	6.4	53
9	Experimental investigation and demonstration of pilot-scale combustion of oil-water emulsions and coal-water slurry with pronounced water contents at elevated temperatures with the use of pure oxygen. Fuel, 2020, 282, 118692.	6.4	45
10	Development of a numerically efficient approach based on coupled <scp>CFD</scp>/<scp>FEM</scp> analysis for virtual fire resistance testsâ€"Part B: Deformation process of a steel structure. Fire and Materials, 2020, 44, 704-723.	2.0	4
11	Scrutiny of residual nitrogen content and different nozzle designs on NOx formation during oxy-fuel combustion of natural gas. Fuel, 2020, 277, 118065.	6.4	13
12	Experimental investigation of tri-reforming on a stationary, recuperative TCR-reformer applied to an oxy-fuel combustion of natural gas, using a Ni-catalyst. Energy, 2020, 212, 118719.	8.8	16
13	High Utilization of Humidified Ammonia and Methane in Solid Oxide Fuel Cells: An Experimental Study of Performance and Stability. Journal of the Electrochemical Society, 2019, 166, F774-F783.	2.9	8
14	Combinations of heat pump and photovoltaics for renovated buildings. E3S Web of Conferences, 2019, 111, 01003.	0.5	0
15	Experimental investigation of thermochemical regeneration using oxy-fuel exhaust gases. Applied Energy, 2019, 236, 1115-1124.	10.1	26
16	Thermochemical analysis and experimental investigation of a recuperative waste heat recovery system for the tri-reforming of light oil. Energy Conversion and Management, 2019, 195, 302-312.	9.2	25
17	Investigation of Subsystems for Combination into a SOFC-Based CCHP System. Journal of Electrochemical Energy Conversion and Storage, 2019, 16, .	2.1	3
18	An experimental study of a thermochemical regeneration waste heat recovery process using a reformer unit. Energy, 2018, 155, 381-391.	8.8	40

#	Article	IF	Citations
19	CFD-based optimization of a transient heating process in a natural gas fired furnace using neural networks and genetic algorithms. Applied Thermal Engineering, 2018, 138, 217-234.	6.0	17
20	CFD-model to predict the local and time-dependent scale formation of steels in air- and oxygen enriched combustion atmospheres. Applied Thermal Engineering, 2018, 143, 822-835.	6.0	16