

Christian Gaber

List of Publications by Year in descending order

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Version: 2024-02-01

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	Fast and accurate CFD-model for NO _x emission prediction during oxy-fuel combustion of natural gas using detailed chemical kinetics. <i>Fuel</i> , 2020, 264, 116841.	6.4	53
2	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. <i>Fuel</i> , 2020, 282, 118692.	6.4	45
3	An experimental study of a thermochemical regeneration waste heat recovery process using a reformer unit. <i>Energy</i> , 2018, 155, 381-391.	8.8	40
4	Experimental investigation on H ₂ S and SO ₂ sulphur poisoning and regeneration of a commercially available Ni-catalyst during methane tri-reforming. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 3437-3452.	7.1	30
5	Experimental investigation of thermochemical regeneration using oxy-fuel exhaust gases. <i>Applied Energy</i> , 2019, 236, 1115-1124.	10.1	26
6	Thermochemical analysis and experimental investigation of a recuperative waste heat recovery system for the tri-reforming of light oil. <i>Energy Conversion and Management</i> , 2019, 195, 302-312.	9.2	25
7	Towards a recuperative, stationary operated thermochemical reformer: Experimental investigations on the methane conversion and waste heat recovery. <i>Applied Thermal Engineering</i> , 2021, 183, 116121.	6.0	21
8	Experimental study on the influence of the nitrogen concentration in the oxidizer on NO_x and CO emissions during the oxy-fuel combustion of natural gas. <i>Energy</i> , 2021, 214, 118905.	8.8	18
9	CFD-based optimization of a transient heating process in a natural gas fired furnace using neural networks and genetic algorithms. <i>Applied Thermal Engineering</i> , 2018, 138, 217-234.	6.0	17
10	CFD-model to predict the local and time-dependent scale formation of steels in air- and oxygen enriched combustion atmospheres. <i>Applied Thermal Engineering</i> , 2018, 143, 822-835.	6.0	16
11	Experimental investigation of tri-reforming on a stationary, recuperative TCR-reformer applied to an oxy-fuel combustion of natural gas, using a Ni-catalyst. <i>Energy</i> , 2020, 212, 118719.	8.8	16
12	Scrutiny of residual nitrogen content and different nozzle designs on NO _x formation during oxy-fuel combustion of natural gas. <i>Fuel</i> , 2020, 277, 118065.	6.4	13
13	High Utilization of Humidified Ammonia and Methane in Solid Oxide Fuel Cells: An Experimental Study of Performance and Stability. <i>Journal of the Electrochemical Society</i> , 2019, 166, F774-F783.	2.9	8
14	Validation of a coupled 3D CFD simulation model for an oxy-fuel cross-fired glass melting furnace with electric boosting. <i>Applied Thermal Engineering</i> , 2021, 195, 117166.	6.0	8
15	Towards thermochemical recuperation applying combined steam reforming and partial oxidation of methane: Thermodynamic and experimental considerations. <i>Energy Conversion and Management</i> , 2022, 251, 114927.	9.2	8
16	Development of a numerically efficient approach based on coupled CFD/FEM analysis for virtual fire resistance tests – Part B: Deformation process of a steel structure. <i>Fire and Materials</i> , 2020, 44, 704-723.	2.0	4
17	Investigation of Subsystems for Combination into a SOFC-Based CCHP System. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2019, 16, .	2.1	3
18	Experimental investigation into stationary operated, thermochemical recuperation applied to a 200 kW industrial scale oxy-fuel furnace. <i>Applied Thermal Engineering</i> , 2022, 212, 118580.	6.0	2

#	ARTICLE	IF	CITATIONS
19	Combinations of heat pump and photovoltaics for renovated buildings. E3S Web of Conferences, 2019, 111, 01003.	0.5	0
20	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