Renaud Ansart

List of Publications by Year
in descending order

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27	922	566801 15	580395 25
papers	citations	h-index	g-index

27	27	27	726
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dense suspension of solid particles as a new heat transfer fluid for concentrated solar thermal plants: On-sun proof of concept. Chemical Engineering Science, 2013, 102, 567-576.	1.9	168
2	Reviewing the potential of bio-hydrogen production by fermentation. Renewable and Sustainable Energy Reviews, 2020, 131, 110023.	8.2	159
3	Reviewing the thermo-chemical recycling of waste polyurethane foam. Journal of Environmental Management, 2021, 278, 111527.	3.8	82
4	Sand-assisted fluidization of large cylindrical and spherical biomass particles: Experiments and simulation. Chemical Engineering Science, 2015, 126, 543-559.	1.9	66
5	A New Heat Transfer Fluid for Concentrating Solar Systems: Particle Flow in Tubes. Energy Procedia, 2014, 49, 617-626.	1.8	51
6	Dust emission by powder handling: Comparison between numerical analysis and experimental results. Powder Technology, 2009, 190, 274-281.	2.1	47
7	Dust emission in powder handling: Free falling particle plume characterisation. Chemical Engineering Journal, 2009, 152, 415-420.	6.6	40
8	Experimental hydrodynamic study of gasâ€particle dense suspension upward flow for application as new heat transfer and storage fluid. Canadian Journal of Chemical Engineering, 2015, 93, 317-330.	0.9	38
9	Dust emission by powder handling: Influence of the hopper outlet on the dust plume. Powder Technology, 2011, 212, 418-424.	2.1	31
10	Dense upflow fluidized bed (DUFB) solar receivers of high aspect ratio: Different fluidization modes through inserting bubble rupture promoters. Chemical Engineering Journal, 2021, 418, 129376.	6.6	31
11	Flue Gas Desulphurization in Circulating Fluidized Beds. Energies, 2019, 12, 3908.	1.6	29
12	Massively parallel numerical simulation using up to 36,000 CPU cores of an industrial-scale polydispersed reactive pressurized fluidized bed with a mesh of one billion cells. Powder Technology, 2020, 366, 906-924.	2.1	29
13	Dense gas-particle suspension upward flow used as heat transfer fluid in solar receiver: PEPT experiments and 3D numerical simulations. Powder Technology, 2017, 307, 25-36.	2.1	24
14	Threeâ€dimensional numerical simulation of upflow bubbling fluidized bed in opaque tube under high flux solar heating. AICHE Journal, 2018, 64, 3857-3867.	1.8	21
15	Hydrodynamics and particle motion in upward flowing dense particle suspensions: Application in solar receivers. Chemical Engineering Science, 2016, 146, 346-356.	1.9	19
16	Particle motion and heat transfer in an upward-flowing dense particle suspension: Application in solar receivers. Chemical Engineering Science, 2018, 177, 313-322.	1.9	16
17	Experiments support simulations by the NEPTUNE_CFD code in an Upflow Bubbling Fluidized Bed reactor. Chemical Engineering Journal, 2020, 385, 123568.	6.6	13
18	Modeling and simulation of drying operations in PVC powder production line: Experimental and theoretical study of drying kinetics on particle scale. Powder Technology, 2014, 255, 120-133.	2.1	12

#	Article	IF	Citations
19	11CO2 positron emission imaging reveals the in-situ gas concentration profile as function of time and position in opaque gas-solid contacting systems. Chemical Engineering Journal, 2021, 404, 126507.	6.6	10
20	Granular flows down inclined channels with a strain-rate dependent friction coefficient. Part I: Non-cohesive materials. Granular Matter, 2008, 10, 353-360.	1.1	9
21	Effects of reducing the reactor diameter on the dense gasâ€“solid fluidization of very heavy particles: 3D numerical simulations. Chemical Engineering Research and Design, 2017, 117, 575-583.	2.7	8
22	Numerical Simulation of Multiphase Reactive Flows. Advances in Chemical Engineering, 2018, 52, 51-124.	0.5	6
23	Determination of PVC powder drying kinetics at particle scale: Experimental study and modeling. Drying Technology, 2016, 34, 2000-2023.	1.7	4
24	The fluidized bed air heat exchanger in a hybrid Brayton-cycle solar power plant. AIP Conference Proceedings, 2019, , .	0.3	4
25	Numerical Simulation of Dome Filling in an Experimental Rocket Engine Mockup. Journal of Propulsion and Power, 2014, 30, 617-627.	1.3	2
26	Bio-energy Carriers as Back-up Fuel in Hybrid Solar Power Plants. IOP Conference Series: Earth and Environmental Science, 0, 544, 012012.	0.2	2
27	Numerical simulation of a 3D unsteady two-phase flow in the filling cavity in oxygen of a cryogenic rocket-engine. , 2012, , .		1