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Overcoming the gamma-ray computed tomography data processing pitfalls for bubble column equipped with vertical internal tubes

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Canadian Journal of Chemical Engineering, 2018, 96, 2206-222

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#	Paper	IF	Citations
12	Impact of heat-exchanging tube configurations on the gas holdup distribution in bubble columns using gamma-ray computed tomography. <i>International Journal of Multiphase Flow</i> , 2018 , 106, 202-219	3.6	19
11	A Journey across Food & Chemical Engineering Dyad: Symposium in memory of Professor Khaled Belkacemi. <i>Canadian Journal of Chemical Engineering</i> , 2018 , 96, 2125-2126	2.3	0
10	Mapping of microalgae culturing via radioactive particle tracking. <i>Chemical Engineering Science</i> , 2018 , 192, 739-758	4.4	12
9	Investigating the cross-sectional gas holdup distribution in a split internal-loop photobioreactor during microalgae culturing using a sophisticated computed tomography (CT) technique. <i>Chemical Engineering Research and Design</i> , 2019 , 149, 13-33	5.5	7
8	Phase distribution in Fischer-Tropsch mimicked slurry bubble column via computed tomography. <i>Chemical Engineering Science</i> , 2021 , 231, 116278	4.4	6
7	Improved scatter correction model for high attenuation gamma-ray tomography measurements. <i>Measurement Science and Technology</i> , 2021 , 32, 085903	2	1
6	Process intensification in multifunctional reactors: A review of multi-functionality by catalytic structures, internals, operating modes, and unit integrations. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021 , 168, 108561	3.7	2
5	A Detailed Hydrodynamic Study of the Split-Plate Airlift Reactor by Using Non-Invasive Gamma-Ray Techniques. <i>ChemEngineering</i> , 2022 , 6, 18	2.6	2
4	Feasibility study of implementing gamma-ray computed tomography on measuring aggregate distribution and radiation shielding properties of concrete samples. <i>Construction and Building Materials</i> , 2022 , 327, 127034	6.7	0
3	Study of Gas Holdup Distribution in Cylindrical Split Airlift Reactor by Using Gamma-Ray Densitometry (GRD). <i>Processes</i> , 2022 , 10, 910	2.9	0
2	Study of the Impact of Tube Configurations on the Local Heat Transfer Coefficient in Mimicked Fischer-Tropsch Bubble Column Reactor. <i>Processes</i> , 2022 , 10, 976	2.9	
1	Experimental investigation on the impact of tube bundle designs on heat transfer coefficient in gas-solid fluidized bed reactor for Fischer-Tropsch synthesis. <i>International Communications in Heat and Mass Transfer</i> , 2022 , 136, 106169	5.8	0