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Publications

Journal papers

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1. **Glowienko, Robert; Derlien, Hans; Ertunc, Özgür; Delgado, Antonio**, Numerical and experimental analysis of the flow and transition of free synthetic jets, *Fluid Dynamics Research*, 51 (2019) 025503. Keywords: synthetic jets, CFD, turbulence. Impact factor (2019): still unknown
2. **Seidl, P.; Loekman, S.; Sardogan, M.; Voigt, E.; Claßen, Timi; Ha, J.; Luzi, Giovanni; Sevenich, R.; Rodriguez Agudo, Jose; Rauh, Cornelia; Delgado, Antonio**, Food technological potentials of CO₂ gas hydrate technology for the concentration of selected juices, *High Pressure Research*, (2019), DOI:10.1080/08957959.2019.1597077. Keywords: Fruit juice, hydrate technology, food technology, gas hydrate, carbon dioxide/CO₂ clathrate, CO₂ hydrate. Impact factor (2019): still unknown.
3. **Luzi, Giovanni; McHardy, Christopher; Lindenberger, Christoph; Rauh, Cornelia; Delgado, Antonio**, Comparison between different strategies for the realization of flashing-light effects – Pneumatic mixing and flashing illumination, *Algal Research*, 38 (2019) 101404, doi.org/10.1016/j.algal.2018.101404, Keywords: Photobioreactor, Flashing light, Mixing, Bubble column, Numerical simulation. Impact factor (2019): still unknown
4. **Jovicic, V., Zbogar-Rasic, A., Delgado, A.** New oven concept with dominant near-infrared (NIR) thermal radiation heat transfer, *Cereal Technology Journal*, 1 (2019) 40-51, DOI:10.23789/1869-2303-2019-1. Keywords: Oven, NIR, Heat transfer. Impact factor (2019): still unknown.
5. **Ruiz, Gustavo; Ripoll, Nicolás; Fedorova, Natalia; Zbogar-Rasic, Ana; Jovicic, Vojislav ; Delgado, Antonio; Toledo, Mario**, Experimental and numerical analysis of the heat transfer in a packed bed exposed to the high thermal radiation flux, *International Journal of Heat and Mass Transfer*, 136 (2019) 383-392. Keywords: Packed bed, Discrete element method (DEM), LIGGGHTS, Radiation, Heat transfer. Impact factor (2019): still unknown
6. **Fedorova, Natalia; Aziziyanesfahani, Pegah; Jovicic, Vojislav; Zbogar-Rasic, Ana; Khan, Muhammad Jehanzaib; Delgado, Antonio**, Investigation of the concepts to increase the dew point temperature for thermal energy recovery from flue gas, using Aspen®, *MDPI, Energies*, 12 (2019) 1585, doi:10.3390/en12091585. Keywords: Thermal energy recovery, Flue gas, Dew point temperature, Condensation, Aspen. Impact factor (2019): still unknown.

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7. **Schwinn, Mira; Durner, Dominik; Wacker, Michael; Delgado, Antonio; Fischer, Ulrich**: Impact of fermentation temperature on required heat dissipation, growth and viability of yeast, sensory characteristics and the formation of volatiles in Riesling. In: *Australian Journal of Grape and Wine Research*. (2018), submmited.
8. **Jovicic, Vojislav; Khan, Muhammad Jehanzaib; Zbogar-Rasic, Ana; Fedorova, Natalia; Poser, Alexander; Swoboda, Peter; Delgado, Antonio**, Degradation of Low Concentrated Perfluorinated Compounds (PFCs) from Water Samples Using Non-Thermal Atmospheric Plasma (NTAP), *Energies* 11 (1290) (2018). Keywords: Non-thermal atmospheric plasma, Perfluorinated compound (PFC) removal, Wastewater treatment. [doi>10.3390/en11051290]. Impact factor (2018): 2.676
9. **McHardy, C.; Luzi, Giovanni; Lindenberger, Christoph; Rodriguez Agudo, José; Delgado, Antonio; Rauh, Cornelia**, Numerical analysis of the effects of air on light distribution in a bubble column photobioreactor, *Algal Research* 31 (2018) 311-325. Keywords: Bubble column photobioreactor, Gas bubbles, Light distribution, Numerical simulation. [doi>10.1016/j.algal.2018.02.016]. Impact factor (2018): 3.745

10. **Glowienko, Robert; Derlien, Hans; Ertunç, Özgür; Delgado, Antonio**, Numerical and experimental analysis of impinging synthetic jets for cooling a point-like heat source, *Journal of Heat Transfer* 140(5) (2018). Keywords: Heat transfer, Jets, Cooling, Turbulence, Vortices. [doi>10.1115/1.4038547]. Impact factor (2018): 1.602
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