

# Benoit Haut

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

812  
citations

430874

18  
h-index

477307

29  
g-index

30  
all docs

30  
docs citations

30  
times ranked

818  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Hydrodynamics and mass transfer in a Couette-Taylor bioreactor for the culture of animal cells. <i>Chemical Engineering Science</i> , 2003, 58, 777-784.   | 3.8 | 98        |
| 2  | Surface-tension-driven instabilities of a pure liquid layer evaporating into an inert gas. <i>Journal of Colloid and Interface Science</i> , 2005, 285, 296-305.   | 9.4 | 96        |
| 3  | A comprehensive analysis of the evaporation of a liquid spherical drop. <i>Journal of Colloid and Interface Science</i> , 2015, 438, 306-317.  | 9.4 | 52        |
| 4  | Production of an alternative fuel by the co-pyrolysis of landfill recovered plastic wastes and used lubrication oils. <i>Waste Management</i> , 2017, 60, 363-374.   | 7.4 | 47        |
| 5  | Nonmonotonic Rayleigh-Taylor Instabilities Driven by Gas-Liquid CO <sub>2</sub> Chemisorption. <i>Journal of Physical Chemistry B</i> , 2014, 118, 11323-11329.  | 2.6 | 45        |
| 6  | Historical and Technical Notes on Aqueducts from Prehistoric to Medieval Times. <i>Water (Switzerland)</i> , 2013, 5, 1996-2025.   | 2.7 | 44        |
| 7  | Interfacial turbulence in evaporating liquids: Theory and preliminary results of the ITEL-master 9 sounding rocket experiment. <i>Advances in Space Research</i> , 2003, 32, 119-127.  | 2.6 | 39        |
| 8  | Experimental study of gas-liquid mass transfer coupled with chemical reactions by digital holographic interferometry. <i>Chemical Engineering Science</i> , 2011, 66, 3400-3412.   | 3.8 | 38        |
| 9  | New insights into the mechanisms controlling the bronchial mucus balance. <i>PLoS ONE</i> , 2018, 13, e0199319.  | 2.5 | 32        |
| 10 | A new modeling approach for the prediction of yeast drying rates in fluidized beds. <i>Journal of Food Engineering</i> , 2008, 84, 335-347.  | 5.2 | 30        |
| 11 | Disorder-induced hysteresis and nonlocality of contact line motion in chemically heterogeneous microchannels. <i>Physics of Fluids</i> , 2012, 24, .   | 4.0 | 29        |
| 12 | Impact of limited drying on <i>Momordica cochinchinensis</i> Spreng. aril carotenoids content and antioxidant activity. <i>Journal of Food Engineering</i> , 2013, 118, 358-364.   | 5.2 | 28        |
| 13 | Use of <i>in Situ</i> Raman, FBRM, and ATR-FTIR Probes for the Understanding of the Solvent-Mediated Polymorphic Transformation of <i>l</i> -Etiacetam in Methanol. <i>Organic Process Research and Development</i> , 2012, 16, 49-56. | 2.7 | 26        |
| 14 | Conical spouted bed drying of Baker's yeast: Experimentation and multi-modeling. <i>Food Research International</i> , 2014, 62, 137-150.   | 6.2 | 26        |
| 15 | Mathematical modeling of gas-liquid mass transfer rate in bubble columns operated in the heterogeneous regime. <i>Chemical Engineering Science</i> , 2005, 60, 5937-5944.  | 3.8 | 23        |
| 16 | Development of a tool, using CFD, for the assessment of the disinfection process by ozonation in industrial scale drinking water treatment plants. <i>Chemical Engineering Science</i> , 2011, 66, 3185-3194.                          | 3.8 | 21        |
| 17 | Production of sodium bicarbonate in industrial bubble columns. <i>Chemical Engineering Science</i> , 2004, 59, 5687-5694.  | 3.8 | 20        |
| 18 | Modelling of flocculation using a population balance equation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2007, 46, 1264-1273.  | 3.6 | 18        |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | Towards an accurate and precise determination of the solid–solid transition temperature of enantiotropic systems. <i>Journal of Chemical Thermodynamics</i> , 2011, 43, 677-682.                                 | 2.0  | 15        |
| 20 | Detection of the Etiracetam solvent-mediated polymorphic transformation through the online monitoring of the suspension apparent viscosity. <i>Journal of Crystal Growth</i> , 2012, 342, 57-64.                 | 1.5  | 15        |
| 21 | Bubbly flow and gas–liquid mass transfer in square and circular microchannels for stress-free and rigid interfaces: CFD analysis. <i>Microfluidics and Nanofluidics</i> , 2015, 19, 523-545.                     | 2.2  | 13        |
| 22 | Ozone inactivation of resistant microorganisms: Laboratory analysis and evaluation of the efficiency of plants. <i>Water Research</i> , 2012, 46, 5893-5903.   | 11.3 | 11        |
| 23 | Construction of a solar drying unit suitable for conservation of food and enhancement of food security in West Africa. <i>Food Security</i> , 2009, 1, 197-205.  | 5.3  | 10        |
| 24 | Investigation of crystallization kinetics of sodium bicarbonate in a continuous stirred tank crystallizer. <i>Journal of Crystal Growth</i> , 2005, 282, 220-227.  | 1.5  | 9         |
| 25 | Solid–liquid phase diagrams for the determination of the solid state nature of both polymorphs of (RS)-2-(2-oxo-pyrrolidin-1-yl)-butyramide. <i>International Journal of Pharmaceutics</i> , 2012, 437, 156-161. | 5.2  | 8         |
| 26 | Implementation of a rational drying process for fish conservation. <i>Food Security</i> , 2010, 2, 71-80.  | 5.3  | 7         |
| 27 | A new approach for the estimation of the melting enthalpy of metastable crystalline compounds using differential scanning calorimetry. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 107, 777-788.  | 3.6  | 7         |
| 28 | Comprehensive analysis of intermittent drying. A theoretical approach. <i>Food and Bioproducts Processing</i> , 2022, 131, 86-101.   | 3.6  | 3         |
| 29 | Modeling temperature in chocolate mass to predict tempering quality. <i>European Journal of Lipid Science and Technology</i> , 2009, 111, 273-279.   | 1.5  | 1         |