### Accepted Manuscript

Effect of wall surface wettability on collective behavior of hydrogen microbubbles rising along a wall

Atsuhide Kitagawa, Petr Denissenko, Yuichi Murai

PII:	S0894-1777(16)30215-1
DOI:	http://dx.doi.org/10.1016/j.expthermflusci.2016.08.010
Reference:	ETF 8848
To appear in:	Experimental Thermal and Fluid Science
Received Date:	15 April 2016
Revised Date:	1 August 2016
Accepted Date:	7 August 2016



Please cite this article as: A. Kitagawa, P. Denissenko, Y. Murai, Effect of wall surface wettability on collective behavior of hydrogen microbubbles rising along a wall, *Experimental Thermal and Fluid Science* (2016), doi: http://dx.doi.org/10.1016/j.expthermflusci.2016.08.010

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## ACCEPTED MANUSCRIPT

1st revised manuscript for Experimental Thermal and Fluid Science

#### Effect of wall surface wettability on collective behavior of hydrogen microbubbles

rising along a wall

Atsuhide Kitagawa<sup>a,\*</sup>, Petr Denissenko<sup>b</sup>, and Yuichi Murai

<sup>a</sup> Department of Mechanical and System Engineering, Kyoto Institute of Technology,

Goshokaido-cho, Matsugasaki, Sakyo-ku, Kyoto 606-8585 Japan

<sup>b</sup> School of Engineering, University of Warwick, Gibbet Hill Road, Coventry CV4 7AL, UK

<sup>c</sup> Laboratory for Flow Control, Faculty of Engineering, Hokkaido University,

Kita-13, Nishi-8, Kita-ku, Sapporo 060-8628 Japan

\* Corresponding author. Tel: +81 75 724 7327; Fax: +81 75 724 7300;

E-mail: kitagawa@kit.ac.jp (A. Kitagawa).

#### ABSTRACT

This paper presents an experimental study of the influence of wall surface wettability on the behavior of hydrogen microbubbles rising along a nearly vertical wall. Multiple optical diagnostics, including particle

Download English Version:

# https://daneshyari.com/en/article/7051947

Download Persian Version:

https://daneshyari.com/article/7051947

Daneshyari.com