Supporting Information "Low-cost and Large-scale Fabrication of Superhydrophobic 5052

## Aluminum Alloy Surface with Enhanced Corrosion Resistance"

Xue-Wu Li,<sup>†</sup> Qiao-Xin Zhang,<sup>\*,†</sup> Zheng Guo,<sup>‡</sup> Jin-Gui Yu,<sup>†</sup> Ming-Kai Tang,<sup>†</sup> and Xing-Jiu

Huang\*,<sup>†,‡</sup>

<sup>†</sup>School of Mechanical and Electronic Engineering, Wuhan University of Technology, 122

Luoshi Road, Wuhan, 430070, P. R. China

\*Research Center for Biomimetic Functional Materials and Sensing Devices, Institute of Intelligent Machines, Chinese Academy of Sciences, Hefei, 230031, P. R. China

\*Address correspondence to Q.-X. Zhang, X.-J. Huang.

E-mail: <u>zhangqx@whut.edu.cn(Q.X.Z)</u>; <u>xingjiuhuang@iim.ac.cn</u> (X.J.H).

Tel.: +86-551-5591142; fax: +86-551-5592420.



**Figure S1.** a1)-e1) showing the cross-sectional view SEM images of the samples etched with 4 M hydrochloric acid for 2, 4, 6, 8 and 10 min, respectively. a2)-e2) demonstrating the magnified images of a1)-e1), respectively.