

Refereed Journal Publications

1. F. Munoz, **G. Alici**, H. Zhou, W. Li, and M. Sitti, "Analysis of Magnetic Interaction in Remotely Controlled Magnetic Devices and Its Application to a Capsule Robot for Drug Delivery ", *IEEE/ASME Transactions on Mechatronics*, DOI:10.1109/TMECH.2017.2764902, October 2017 (in print).
2. T. D. Than, **G. Alici**, H. Zhou, S. Harvey, and W. Li, "Enhanced Localization of Robotic Capsule Endoscopes Using Positron Emission Markers and Rigid-Body Transformation", *IEEE Transactions on Systems, Man and Cybernetics: Systems*, DOI: 10.1109/TSMC.2017.2719050, June 2017 (in print).
3. **G. Alici**, T. Canty, R. Mutlu, W. Hu, V. Sencadas, "Modelling and Experimental Evaluation of Bending Behaviour of Soft Pneumatic Actuators Made of Discrete Actuation Chambers", *Soft Robotics*, July 2017 (in print).
4. A. S. Niyetkaliyev, S. Hussain, P. Jamwal, and **G. Alici**, "Modelling of the Human Shoulder Girdle as a 6-4 Parallel Mechanism with a Moving Scapulothoracic Joint", *Mechanism and Machine Theory*, Vo.118, pp.219-230, December 2017.
5. V. Sencadas, R. Mutlu, and **G. Alici**, "Large area and ultra-thin compliant strain sensors for prosthetic devices", *Sensors and Actuators: A, Physical*, Vol 266, pp. 56 – 64, October 2017.
6. Q. Zhao, S. Yan, D. Yuan, J. Zhang, H. Du, **G. Alici**, and W. Li, "Double-Mode Microparticle Manipulation by Tunable Secondary Flow in Microchannel With Arc-Shaped Groove Arrays", *IEEE Transactions on Biomedical Circuits and Systems*, August 2017 (in print)
7. T. Yildirim, J. Zhang, W. Li, **G. Alici**, S. Zhang, and S. S. Sun, "Design of an enhanced wideband energy harvester using a parametrically excited array", *Journal of Sound and Vibration*, Vol.410, spp. 416-428, DOI: 10.1016/j.jsv.2017.08.030, December 2017.
8. M. K. Masud, Md. N. Islam, Md. H. Haque, S. Tanaka, V. Gopalan, **G. Alici**, N.-T. Nguyen, A. K. Y. Lam, Md. S. A.Hossain, Y. Yamauchi, and M. J. A. Shiddiky, "Gold-loaded nanoporous superparamagnetic nanocubes for catalytic signal amplification in detecting miRNA", *Chemical Communications*, Vol.53, No.58, pp. 8231 – 8243, July 2017.
9. C. A. Hamilton, **G. Alici**, and M. in het Panhuis, "3D Printing Vegemite and Marmite: Redefining "Breadboards", *Journal of Food Engineering*, January 2017 (in print).

10. S.S. Sun, J. Yang, T. Yildirim, H. Du, **G. Alici**, S. Zhang, and W. Li, "Development of a nonlinear adaptive absorber based on magnetorheological elastomer", *Journal of Intelligent Material Systems and Structures*, June 2017 (in print).
11. Q. Zhao, J. Zhang, S. Yan, D. Yuan, H. Du, **G. Alici**, and W. Li, "High-throughput sheathless and three-dimensional microparticle focusing using a microchannel with arc-shaped groove arrays", *Scientific Reports* (published by Nature Publishing Group), Vol. **7**, Article number: 4115, January 2017.
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