# Publications

**Book Chapter**

* R. K. Haldkar, T. Sheorey, V. K. Gupta, “The effect of operating frequency and needle diameter on performance of piezoelectric micropump, “Advanced Materials, 207, 567-578, 2018, Springer. Print ISBN978-3-319-78918-7
* A.M. Khalatkar R. K. Haldkar, D. Jhodkar “Aurdionio based electromagnetic shaker using piezoelectrics, SPRINGER Nature 2019 , DOI: 10.1007/978-981-13-6148-7\_76

# Journals

* R.K. Haldkar, T. Sheorey, V.K. Gupta, “Modified design and simulation of piezoelectric actuated micropump for directional flow at reduced actuation frequency” Microsystem technologies. (Under review)
* U. Sontake, R.K Haldkar, I. Ullah “Trends of Industry 4.0: Scope and Discussion” International Journal of Management Science and Engineering Management. (Under review)
* R. K. Haldkar, V.K. Gupta and T. Sheorey “Modeling and flow analysis of piezoelectric based micropump with various shapes of microneedle” Journal of Mechanical Science and Technology 31 (6), pp 2933~2941, (2017) DOI 10.1007/s12206-017-0536-z
* A. M. Khalatkar, R. K. Haldkar, V.K. Gupta, "Finite Element Analysis of Cantilever Beam for Optimal Placement of Piezoelectric Actuator", Applied Mechanics and Materials, Vols. 110-116, pp. 4212-4219, 2012: DOI 10.4028/[www.scientific.net/AMM.110-116.4212](http://www.scientific.net/AMM.110-116.4212)
* A. M. Khalatkar, V.K. Gupta, R. K. Haldkar, "Study of Effect of Geometry Parameters on Piezoelectric Cantilever by Modal and Harmonic Analysis", Advanced Materials Research, Vols. 383-390, pp. 6689-6694, 2012 ; DOI:10.4028/[www.scientific.net/AMR.383-390.6689](http://www.scientific.net/AMR.383-390.6689)

# International Conferences

* S. Verma, S. Sur, R.K. Haldkar et.al “Design of Fruit Segregation and Packaging Machine.” International Conference on Computational Performance Evaluation. (July 2020)
* R. K. Haldkar, A.M. Khalatkar “Energy Harvesting by piezoelectric and effect of load variation on power generation.” International conference on advance in mechanical and electrical engineering (Nagpur 2019).
* R. K. Haldkar, T. Sheorey, V. K. Gupta, “The effect of operating frequency and needle diameter on performance of piezoelectric micropump, “Physics and mechanics of new materials and their application, (2017, Jabalpur, India).
* [R. K. Haldkar](http://profiles.spiedigitallibrary.org/summary.aspx?DOI=10.1117%2f12.2265631&amp;Name=Rakesh%2BKumar%2BHaldkar)[, T. Sheorey](http://profiles.spiedigitallibrary.org/summary.aspx?DOI=10.1117%2f12.2265631&amp;Name=Tanuja%2BSheorey)[, V. K. Gupta](http://profiles.spiedigitallibrary.org/summary.aspx?DOI=10.1117%2f12.2265631&amp;Name=Vijay%2BKumar%2BGupta) [and M. Z. Ansari](http://profiles.spiedigitallibrary.org/summary.aspx?DOI=10.1117%2f12.2265631&amp;Name=M.%2BZahid%2BAnsari)" Four segment piezo based micropump ", Proc. SPIE 10246, Smart Sensors, Actuators, and MEMS VIII, 102461B (June 7, 2017); Doi:10.1117/12.2265631;
* [A.M. Khalatkar](http://profiles.spiedigitallibrary.org/summary.aspx?DOI=10.1117%2f12.905087&amp;Name=Abhay%2BKhalatkar)[, V. K. Gupta](http://profiles.spiedigitallibrary.org/summary.aspx?DOI=10.1117%2f12.905087&amp;Name=Vijay%2BK.%2BGupta) [and R. K. Haldkar](http://profiles.spiedigitallibrary.org/summary.aspx?DOI=10.1117%2f12.905087&amp;Name=Rakeshkumar%2BHaldkar) "Modeling and simulation of cantilever beam for optimal placement of piezoelectric actuators for maximum energy harvesting", Proc. SPIE 8204, Smart Nano-Micro Materials and Devices, 82042G (December 23, 2011); Doi:10.1117/12.905087
* A.M. Khalatkar, V. K. Gupta and R.K. Haldkar 2010, "Study of FEA Analysis of Piezoelectric Cantilever Beam for Optimal Placement" volume 2, page 86-90, IEEE Sponsored, MIMT 2010, Singapore