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Patents

• S. Kawano, H. Shintaku, <u>Osman, O. O.</u>, and M. Hirata, (2014). Pump and liquid supply method, JP Patent WO2014073638 A1.

Publications

Journal Papers

- Hassan, Hamdy, <u>Osman Omran Osman</u>, Mahmoud N. Abdelmoez, and Saleh abo-Elfadl. "Experimental Assessment of Novel Designed Solar Hot Water Storage Collector Incorporating an Array of Partitioned Ducts Absorber." *Solar Energy* 262 (2023/09/15/ 2023): 111838.
- Hassan, Hamdy, <u>Osman Omran Osman</u>, Mahmoud N. Abdelmoez, and Saleh abo-Elfadl. "Energy and Exergy Evaluation of New Design Nabla Shaped Tubular Solar Air Heater (∇ Tsah): Experimental Investigation." *Energy* (2023/04/22): 127451.
- Hassan, Hamdy, Mahmoud N. Abdelmoez, <u>Osman Omran Osman</u>, and Saleh abo-Elfadl. "Experimental Evaluation of the Performance of Newly Designed Tubular Sah with Infinity (∞) Shaped Inner Tubes." *Solar Energy* 256 (2023/05/15): 202-214.
- Hassan, H, <u>Osman Omran Osman</u>, Abo-Elfadl, S., "Novel dynamic simulation model and detailed performance evaluation of single slope solar still: Impact of side walls material." *Solar Energy* 244 (2022): 298-314.
- <u>Osman Omran Osman</u>, Abouel-Kasem, A., Ahmed, S.M., 2021. "Shock Waves as dominant Mechanism for Cavitation damage", Journal of Tribology, 144(6), p.062301.
- Abouel-Kasem, A., <u>Osman Omran Osman</u>, Karrab, S.A., Ahmed, S.M., 2021, "The Limited Role of Pit Formed by Microjet in Evolution of Cavitation Erosion in the Incubation Period", Journal of Tribology, 144(4), p.041702.
- Nasef, M. H., Hashim, M. A., <u>Osman Omran Osman</u>, 2019, "Experimental Investigation of Fault Diagnosis for Centrifugal Pump Based on Vibration Signals", International Journal of Advanced Science and Technology, 29(1), pp. 889- 898.
- Mohamed, A. F., <u>Osman Omran Osman</u>, Ghazaly, N. M., 2019, "Study of Friction Coefficient of Wind Turbine Brake System under Environmental Conditions", International Journal of Advanced Science and Technology, 28(12), pp. 169- 177.
- 9. <u>Osman Omran Osman</u>, Shirai, A., Kawano, S., 2015, "A numerical study on the performance of micro-vibrating flow pumps using the immersed boundary method", **Microfluidics and Nanofluidics**, pp. 1-14.

10. <u>Osman Omran Osman</u>, Shintaku, H., Kawano, S., 2012, "Development of micro-vibrating flow pumps using MEMS technologies," **Microfluidics and Nanofluidics**, pp. 1-11,

Conference Papers

- <u>Osman Omran Osman</u>, Kawano, S., 2013, "Computational Fluid Dynamics Modeling of Micro-Vibrating Flow Pumps", Tenth International Conference on Flow Dynamics (ICFD 2013), Sendai, Miyagi, Japan, pp pp. 582-583.
- 2. <u>Osman Omran Osman</u>, Hirata, M., Shintaku, H., Kawano, S., 2012, "Improvement of Pumping Performance of Micro-Vibrating Flow Pumps by Controlling Valve Motion", International Symposium on Innovative Nanobiodevices, Nagoya, japan, P. 82.
- 3. <u>Osman Omran Osman</u>, Hirata, M., Shintaku, H., Kawano, S., 2012, "Effect of Valve Amplitude on Pumping Performance of Micro-Vibrating Flow Pump", Proceedings of Design Bionics Symposium, Osaka, japan.
- 4. <u>Osman Omran Osman</u>, Shintaku, H., Kawano, S., 2011, "Experimental System for Performance Evaluation of Micro-Vibrating Flow Pump", Proceedings of International Workshop on Micro/Nano-Engineering, Kyoto, Japan, P. 110.
- 5. <u>Osman Omran Osman</u>, Shintaku, H., Kawano, S., 2011, "Flow visualization around actuating valve of micro-vibrating flow pump", Proceedings of ASME-JSME-KSME Joint Fluids Engineering Conference, Hamamatsu, Japan, (36015-1)-(36015-3).