

Journal Publication

- Khamis Essa, Francesco Modica, Mohamed Imbaby, and et.al (2016): Manufacturing of metallic micro-components using hybrid soft lithography and micro-electrical discharge machining, *Int J Adv Manuf Technol*, Springer-Verlag London. doi:10.1007/s00170-016-9655-4
- El-Sayed T. A., Imbaby M., Jiang K., (2015): A finite element hardness model for analysis of 316L stainless steel -ceramic nanocomposites, *Mechanics of Composite Materials*, Springer Vol. 51, No. 1. pp. 33-42
- Mohamed Imbaby and Kay Gottschalk, (2013): Fabrication of micro pillars using multiwall carbon nanotubes/polymer nanocomposites, *Journal of Micromechanics and Microengineering* Vol. 23 pp. 055012
- Mohamed Imbaby, Kyle Jiang and Isaac Chang (2010): Fabrication of 316-L stainless steel micro components using encapsulating soft mould and isopressing technique: *Microelectronic Engineering*, Vol. 87, pp. 1628-1632.
- Mohamed Imbaby and Kyle Jiang (2010): Stainless steel-TiO₂ composite micro gear fabricated by soft moulding and dispersion techniques: *Microelectronic Engineering*, Vol. 87, pp. 1650-1654
- Mohamed Imbaby and Kyle Jiang (2009): A cold-isopress based process for fabrication of stainless steel micro machine components: *Micro & Nano Letters*, Vol. 43, pp. 160-165
- Mohamed Imbaby and Kyle Jiang (2009): Net shape fabrication of stainless steel–alumina composite micro parts: *Journal of Micromechanics and Microengineering*, Vol. 19, pp. 1-7
- Mohamed Imbaby, Kyle Jiang and Isaac Chang (2009): A Soft Molding Process for Fabrication of Micromachine Parts from stainless Steel Powder: *Advanced Engineering Materials*, Vol. 11(3), pp. 202-205
- Mohamed Imbaby, Hossein Ostadi and Kyle Jiang (2009): Characterisation of stainless steel microparts fabricated by soft moulding technique: *Micro & Nano Letters*, Vol. 4 (2), pp. 99–105.
- Mohamed Imbaby and Kyle Jiang (2009): Fabrication of free standing 316-L stainless steel-AL₂O₃ composite micromachine parts by soft moulding: *Acta Materialia*, Vol 57, pp. 4751-4757
- Mohamed Imbaby, Kyle Jiang and Isaac Chang (2008): Net shape fabrication of stainless-steel micro machine components from metallic powder: *Journal of Micromechanics and Microengineering*, Vol. 18, pp. 1-7
- Mohamed Imbaby, Kyle Jiang and Isaac Chang (2007): Fabrication of 316-L stainless steel micro parts by softlithography and powder metallurgy: *Materials Letters*, Vol. 62, pp. 4213-4216
- Mohamed Imbaby, Younes Khalil and Yasser Shabana (2006): Dynamic Stresses in Rods and Beams Made of Functionally Graded Materials: *Engineering Research Journal*, Faculty of Engineering, Mataria-Cairo-Egypt, Vol. 1, pp. 59-73

Books

- H. Hassanin, M. Imbaby, A. Elshaer, H. El-Mongy, and T. El-Sayed (2016) Manufacturing Processes for Ceramic and Metal Microcomponents. Encyclopedia of Nanoscience and Nanotechnology. American Scientific Publishers.
- Mohamed Imbaby and Kyle Jiang (2011): Advances in Nanocomposites - Synthesis, Characterization and Industrial Applications. Chapter 29, InTech, ISBN 978-953-307-165-7, pp. 679-684
- Mohamed Imbaby Isaac Chang, Kyle Jiang (2010): Electronic Engineering and Computing Technology, Chapter 54, Springer Netherlands, Print ISBN 978-90-481-8775-1, Online ISBN 978-90-481-8776-8, pp. 635-644

Conferences and talks

- Mohamed Imbaby and Kay Gottschalk (2013): Fabrication of polymer nanocomposites based on CNTs in PDMS matrix, Nanotech Conference & Expo 2013, May 12-16, 2013 Washington DC, USA.
- Mohamed Imbaby (2012): Dispersion of multiwall carbon nanotubes to fabricate polymer nanocomposites. Invited talk at Karlsruhe Institute of Technology, Network meeting of the Alexander Von Humboldt Foundation 28-30 November 2012, Karlsruhe, Germany.
- Mohamed Imbaby and Kyle Jiang (2010): Stainless steel-TiO₂ composite micro gear fabricated by soft moulding and dispersion techniques. 35th international conference on Micro & Nano Engineering, October 28-1/2010 Gent/Belgium.
- Mohamed Imbaby, Kyle Jiang and Isaac Chang (2010): Fabrication of 316-L stainless steel micro components using encapsulating soft mould and isopressing technique. 35th international conference on Micro & Nano Engineering, October 28-1/2010 Gent/Belgium.
- Mohamed Imbaby and Kyle Jiang (2009): Fabrication Process of 3D Micro Component from Stainless Steel Aqueous Slurry. Proceedings of the World Congress on Engineering Vol I, July 1 – 3/2009, London/ UK.
- Mohamed Imbaby and Kyle Jiang (2009): Fabrication of micro engine components. Research Conference, University of Birmingham, Birmingham UK.
- Mohamed Imbaby, Kyle Jiang and Isaac Chang (2008): Fabrication of stainless steel micro components using Softlithography. Multi Materials Micro manufacturing conference, September 9-11, Cardiff/ UK.