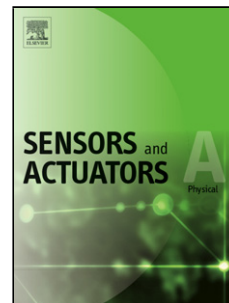


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Multi-walled Carbon Nanotubes Doped Poly(Methyl MethAcrylate) Microfiber for Relative Humidity Sensing

N. M. Isa¹, N. Irawati², S. W. Harun^{3,4}, F. Ahmad⁵, H. A. Rahman¹, M. H. M. Yusoff⁶

¹Faculty of Electrical Engineering, Universiti Teknologi MARA (UiTM), 40450 Shah Alam, Malaysia

²Department of Engineering Physics, Faculty of Industrial Technology, Institut Teknologi Sepuluh Nopember, 60111 Surabaya, Indonesia

³Photonics Research Centre, University of Malaya, 50603 Kuala Lumpur, Malaysia

⁴Department of Electrical Engineering, University of Malaya, 50603 Kuala Lumpur, Malaysia

⁵Malaysia-Japan International Institute of Technology, Universiti Teknologi Malaysia, Jalan Sultan Yahya Petra, 54100 Kuala Lumpur, Malaysia

⁶Faculty of Applied Science, Universiti Teknologi MARA (UiTM), 40450 Shah Alam, Malaysia

Email: naimahmatisa@gmail.com

Highlights

- Multi-walled carbon nanotubes doped Poly(Methyl MethAcrylate) microfiber
- MWCNTs doped PMMA microfiber for relative humidity sensor.
- The output power decreases linearly with the increment of humidity
- The sensor has a sensitivity of 0.3341 dBm/% with resolution of 1.649 %.
- MWCNTs doping exhibits better sensitivities compared to un-doped probe.

Abstract

Multi-walled carbon nanotubes (MWCNTs) doped Poly(Methyl MethAcrylate) (PMMA) microfiber was proposed and demonstrated for relative humidity sensing. It was prepared through a direct drawing technique to achieve a diameter of 5 μm and a length of 5 mm. As

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