

List of Publications in peer reviewed journals:

1. **M. Joglekar**, V. Trivedi, V. Chhaniwal, D. Claus, B. Javidi and A. Anand, “LED based large field of view off-axis quantitative phase contrast microscopy by hologram multiplexing”, **16**, 29234-29245 (2022)
2. S. Utadiya, S. Joshi, N. Patel, C. Patel, **M. Joglekar**, V. Chhaniwal, T. O'Connor, B. Javidi, A. Anand, "Integrated self-referencing single shot digital holographic microscope and optical tweezer", *Light: Advanced Manufacturing*, 3:**37** (2022)
3. V. Trivedi, S. Mahajan, **M. Joglekar**, N. Joshi, V. Chhaniwal S. K. Dubey, Z. Zalevsky, B. Javidi, A. Anand, “Opto-mechanical magnetometer based on laser speckle correlation”, *Measurement*, 110490, (2021)
4. **M. Joglekar**, V. Trivedi, R. Bhatt, V. Chhaniwal, S. Dubey, D. Clauss, G. Pedrini, R. Leitgeb, B. Javidi, A. Anand, “Compact, low cost, large field of view self referencing digital holographic interference microscope”, *Optik*, **245**, 167615, (2021).
5. N. Patel, S. Rawat, **M. Joglekar**, V. Chhaniwal, S. Dubey, T. O'Connor, B. Javidi, A. Anand, “Compact and low-cost instruments for digital holographic microscopy of immobilized micro-particles”, *Optics and Lasers in Engineering*, **137**, 106397, (2021)
6. V. Trivedi, S. Mahajan, **M. Joglekar**, V. Chhaniwal, Z. Zalevsky, B. Javidi, A. Anand, “3D printed hand-held refractometer based on laser speckle correlation”, *Optics and Lasers in Engineering*, **118**, 7-13 (2019)
7. V. Trivedi, **M. Joglekar**, S. Mahajan, V. Chhaniwal, B. Javidi, N. Patel, A. Anand, “Digital Holographic Imaging of refractive index distribution for defect detection”, *Optics and Laser Technology*, **111**, 439-446 , (2019)
8. V. Trivedi, **M. Joglekar**, S. Mahajan, V. Chhaniwal, B. Javidi, A. Anand, “Portable device based on beam deflection for refractive index mapping and diffusion coefficient measurement”, *Optical Engineering*, **58**, 014101 (2019)
9. P. Vora, V. Trivedi, S. Mahajan, N. Patel, **M. Joglekar**, V. Chhaniwal, A. Moradi, B. Javidi, A. Anand, “Wide field of view common-path lateral-shearing digital holographic interference microscope”, *Journal of Biomedical Optics*, **22**, 126001 (2017)

List of publications in conference proceedings:

1. **M. Joglekar**, V. Trivedi, S. Mahajan, V. Chhaniwal, R. Leitgeb, G. Pedrini, B. Javidi, A. Anand, "Wide field of view self-referencing quantitative phase contrast microscopy based on Lloyd's mirror interferometer", Proc. Of SPIE-OSA, 110760S (2019)
2. **M. Joglekar**, H. Shah, V. Trivedi, S. Mahajan, V. Chhaniwal, R. Leitgeb, B. Javidi, A. Anand, "Imaging the effect of hemoglobin on properties of RBCs using common-path digital holographic microscope", Proc. of SPIE-OSA, 10414 (2017)
3. **M. Joglekar**, V. Trivedi, S. Mahajan, V. Chhaniwal, B. Javidi, A. Anand, "Imaging of refractive index distribution in phase objects using lateral shearing interferometer", National Laser Symposium (NLS 26) (2017)

National and international conference presentation:

1. **M. Joglekar**, V. Trivedi, V. Chhaniwal, B. Javidi, A. Anand, "Thickness profiling of transparent objects using structured illumination", International Conference on Optics and Electron-Optics (ICOL) (2019)
2. **M. Joglekar**, V. Trivedi, S. Mahajan, V. Chhaniwal, B. Javidi, A. Anand, "Imaging of refractive index distribution in phase objects using lateral shearing interferometer", National Laser Symposium (NLS 26) (2017)
3. **M. Joglekar**, H. Shah, V. Trivedi, S. Mahajan, N. Patel, V. Chhaniwal, B. Javidi, A. Anand, "Imaging the effect of hemoglobin change on bio-physical parameters of RBC using self-referencing digital holographic microscopy", National Laser Symposium (NLS 25) (2016)