

ARPIT GUPTA



Contact

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Languages

Hindi-Native

English-Upper intermediate

Skill Highlights

- Optical component designer
- Fabrication planning
- Metrology and characterization
- Procurement handling

Summary

An Optical component designer working in the field of Intra-ocular lenses and nano-structured optics. Skilled in Lumericals FDTD, Lumericals RCWA, Essential Macleods, MATLAB, AutoCad and some other Metrology and characterization software's,

Area of research work

Title of thesis: Nanostructured and multilayered optics

Research domain: Multilayered optics, Nanostructured optics, Multilayer dielectric gratings, Intraocular lenses, Phakic intraocular lenses.

Education

Doctor of Philosophy: **Nanostructures Optics** – Pursuing
Indian Institute of technology, Delhi,

Master of Technology: **Applied Optics** – 2019
Indian Institute of technology, Delhi,

Master of Science: **Applied Physics** – 2017
Malaviya National Institute of Technology, Jaipur, Rajasthan,

Bachelor of Science: **Physics honors** - 2014
University of Delhi, Delhi.

Publications

Gupta, A., Sabui, D., Khan, G. S., & Joseph, J. (2021, June). Effects of Variations in Refractive Index and Film Thickness on Multilayer Dielectric Mirror Performance. In *Optical Fabrication and Testing* (pp. OTh2B-5). Optica Publishing Group.

Sabui, D., Gupta, A., & Khan, G. S. (2021, June). Error Estimation of High-Power Multilayer Dielectric Grating. In *Optical Fabrication and Testing* (pp. OTh2B-6). Optica Publishing Group.

Sabui, D., Yuvaraj, T. P., Mishra, V., Gupta, A., Khan, G. S., & Shakher, C. (2020, August). A Taguchi based performance predictive optimization model to design broadband antireflector. In *Novel Optical Systems, Methods, and Applications XXIII* (Vol. 11483, pp. 110-120). SPIE.

Amir, M., Sharma, R., Mishra, V., Gupta, A., Ali, S. W., & Khan, G. S. (2023, June). Surface Modification of SPION-Nanoabrasive for Superfinish Optical Polishing. In *Optical Fabrication and Testing* (pp. OW4B-4). Optica Publishing Group.

Prakash, A., Gupta, A., Burada, D. R., & Khan, G. S. (2023, April). Investigations on Performance Parameters of Phakic Intraocular Lens using a Wavefront Sensor. In *Bio-Optics: Design and Application* (pp. DM2A-7). Optica Publishing Group.