

Published/Accepted SCI Research Papers:

1. Sajal Agarwal, Y.K. Prajapati, "Design of Broadband Absorber Using 2-D Materials for Thermo-photovoltaic Cell Application," Optics Communications, Vol. 413, 39-43, 2018. (I.F.-1.45) <https://doi.org/10.1016/j.optcom.2017.12.030>
2. Sajal Agarwal, Y.K. Prajapati, "Analysis of Metamaterial Absorber for Thermo-photovoltaic Cell Applications," IET Optoelectronics, Vol. 11(5), 208-212, 2017. (I.F.-1.165) [10.1049/iet-opt.2016.0169](https://doi.org/10.1049/iet-opt.2016.0169)
3. Sajal Agarwal, PushpaGiri, Y.K. Prajapati, P. Chakrabarti, "Effect of Surface Roughness on the Performance of Optical SPR Sensor for Sucrose detection: Fabrication, Experimental and Simulation Study," IEEE Sensors Journals, Vol. 16(24), 8865-8873, 2016. (I.F.-2.512) [10.1109/JSEN.2016.2615110](https://doi.org/10.1109/JSEN.2016.2615110)
4. Sajal Agarwal, Y.K. Prajapati, and V. Singh, "Influence of Metal Roughness on SPR Sensor Performance," Optics communications, Vol. 383, 113-118, 2017. (I.F.-1.45) <https://doi.org/10.1016/j.optcom.2016.08.072>
5. Sajal Agarwal, Y.K.Prajapati, and J.B. Maurya, "Effect of Metallic Adhesion Layer Thickness on Surface Roughness for Sensing Application," IEEE Photonics Technology Letters, Vol. 28(21), 2415-2418, 2016. (I.F.-2.375) [10.1109/LPT.2016.2597856](https://doi.org/10.1109/LPT.2016.2597856)
6. Sajal Agarwal, Y.K. Prajapati, "Broadband and Polarization Insensitive Helix Metamaterial Absorber using Graphene for Terahertz Region," Applied Physics A, Vol. 122(6), 1-9, 2016.(I.F.-1.455) <https://doi.org/10.1007/s00339-016-0078-8>
7. Sajal Agarwal, Y.K. Prajapati, and V. Mishra, "Thinned Fiber Bragg Grating as a Fuel Adulteration Sensor: Simulation and Experimental," Journal of Opto- Electronics Review, Vol. 23(4), 231–238, 2015.(I.F.-1.611) <https://doi.org/10.1515/oere-2015-0037>
8. Sajal Agarwal, Y.K.Prajapati, V. Singh, and J. P. Saini, "Polarization Independent Broadband Metamaterial Absorber Based on Tapered Helical Structure," Optics Communications, Vol. 356(1), 565-570, 2015.(I.F.-1.45) <https://doi.org/10.1016/j.optcom.2015.08.055>
9. Sajal Agarwal, V. Mishra, "Characterization of Fiber Bragg Grating for Maximum Reflectivity based on Modulation Depth of Refractive Index," OPTIK, Vol. 125(18), 5192-5195, 2014.(I.F.-0.835) <https://doi.org/10.1016/j.ijleo.2014.05.037>

Published non- SCI Papers:

1. Sajal Agarwal, V. Mishra, "Effect of Grating Length on Chromatic Dispersion in Polymer Coated Apodization Grating," International Journal of Recent Technology and Engineering (IJRTE), Vol. 2(5), 36-39, 2013.

Paper Publications in International Conferences:

1. Sajal Agarwal, Y.K. Prajapati, "Effect of Substrate on the Performance of Metamaterial Based Absorber," International Conference on Microwave and Photonics, ISM Dhanbad, India, 9-11 February 2018. **(Presented)**[10.1109/ICMAP.2018.8354500](#)
2. Sajal Agarwal, Y.K. Prajapati, "Application of TMDs in Nano-Absorbers: An Impression," Conference on Laser and Electro-optics, San Jose, California, USA, 14-19 May 2017.**(Presented)**https://doi.org/10.1364/CLEO_AT.2017.JTh2A.10
3. Sajal Agarwal, Y.K. Prajapati, "Optimization of Top and Additive Layer Thickness of SPR Sensor for Sucrose Detection," International Conference on Advances in Computing, Control and Communication Technology, (IAC3T2016), organized by Allahabad University, Allahabad, India, 25-27 March 2016.**(Presented)**ISBN: 978-93-85926-20-4(<https://books.google.co.in/books?id=DBC4DAAAQBAJ&printsec=frontcover&dq=Advances+in+Computing,+Control+and+Communication+Technology&hl=en&sa=X&ved=0ahUKEwit78a8tLTcAhXJQY8KHTV-DDUQ6AEIKDAA#v=onepage&q=Advances%20in%20Computing%2C%20Control%20and%20Communication%20Technology&f=false>)
4. Y.K. Prajapati, M. Raviteja, Sajal Agarwal, A. Verma, "Design of Broadband and Polarization-independent Metamaterial Absorber Using N Helix," 9th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics – Metamaterials 2015 Oxford, 141-143, United Kingdom, 7-12 September 2015.ISBN 978-88-941141-0-2
5. Sajal Agarwal, V. Mishra, "Fiber Bragg Grating as Dispersion Compensator Using nm Thick Polymer Coating" in International Conference on Nanotechnology (ICNT 2013), HIT, Haldia, 25-26 October 2013. **(Presented)**
6. Sajal Agarwal, V. Mishra, "Optimization of Polymer Coated Fiber Grating for Dispersion Compensation" in Global conference on Recent Trends in Electronics communication engineering, power and control, JNU, New Delhi, 7-8 September 2013. (Then published in "Advance in Electronic and Electric Engineering (AEEE)" under "Research India Publication (RIP)", Vol. 3(7), 875-880, 2013. **(Presented)**<http://www.ripublication.com/aeee/032%20%20pp%20%20875-880.pdf>

Paper publications in National Conferences:

1. Sajal Agarwal, Y.K. Prajapati, "Analytical Study of Metamaterial Absorber Using U Ring Resonator," National Conference on Advanced Materials and Nano Technology, Jaypee Noida, India, 15-17 March, 2018. **(Presented, Best Poster Presentation)**<https://doi.org/10.1063/1.5052117>

2. Sajal Agarwal, V. Mishra, "Effect of Refractive Index Modulation on Fiber Bragg Grating" in National conference on Materials for Electronic Applications (NCMEA 2014), COEP, Pune, 30 January- 01 February 2014. **(Presented, Best Paper)**