List of papers in SCI journals

1 M. Pal, **S. Bandyopadhyay**, P. Biswas, R. Debroy, M. C. Paul, R. Sen, K. Dasgupta, S. K. Bhadra, “Study of gain flatness for multi-channel amplification in single stage EDFA for WDM applications”, Optical & Quantum Electronics, Springer, Volume 39, No. 14, pp. 1231-1243, 2007.

2 **S. Bandyopadhyay**, P. Biswas, A. Pal, S. K. Bhadra and K. Dasgupta, “Empirical relations for design of linear edge filters using apodized linearly chirped fibre Bragg grating,” J. of Lightwave Tech., IEEE, Volume 26, Issue 24, pp. 3853-3859, 2008.

3 **S. Bandyopadhyay**, J. Canning, M. Stevenson, K. Cook, “Ultra high temperature regenerated gratings in boron- codoped germanosilicate optical fibre using 193 nm,” Optics Letters, OSA, USA, Volume. 33, No. 16, pp. 1917-19, 2008.

4 J. Canning, **S. Bandyopadhyay**, M. Stevenson, P. Biswas, J. Fenton, M. Aslund, “Regenerated gratings,” J. Europ. Opt. Soc. Rap. Public, European Optical Society, Germany, Volume 4, 09052-1-7, 2009

5 Debashri Ghosh, Samudra Roy, Mrinmay Pal, **S Bandyopadhyay**, and Shyamal Bhadra, “Modeling of microstructured nonzero dispersion shifted optical fibre with ultralow dispersion slope,” JOSA B, Optical Society of America, USA, Volume 26, Issue 2, pp. 337-345, 2009.

6 P. Biswas, **S. Bandyopadhyay**, K. Kesavan, S. Parivallal, B. Arun Sundaram, K. Ravisankarb, K. Dasgupta, “Investigation on packages of fibre Bragg grating for use as embeddable strain sensor in concrete structure,” Sensors and Actuators A, Elsevier, Europe, Volume 157, issue-1, pp. 77–83, 2010.

7 T. M. Libish, J. Linesh, P. Biswas, **S. Bandyopadhyay**, K. Dasgupta and P. Radhakrishnan, Fiber Optic Long Period Grating Based Sensor for Coconut Oil Adulteration Detection”, Sensors & Transducers Journal Europe, Volume 114, Issue 3, pp. 102-111, 2010

8 T.M. Libish, J. Linesh, M.C. Bobby, P. Biswas, **S. Bandyopadhyay**, K. Dasgupta, P. Radhakrishnan. “Detection and analysis of paraffin oil adulteration in coconut oil using fiber optic long period grating sensor” Optik - Int. J. Light Electron Opt. Elsevier, Volume 122, Issue 21, pp. 1939–1942, 2011

9 **S. Bandyopadhyay**, J. Canning, P. Biswas, M. Stevenson, and K. Dasgupta, “A study of regenerated gratings produced in germanosilicate fibers by high temperature annealing,” Optics express, OSA-USA, Volume 19, No. 2, pp. 1198-1206, 2011

10 N. Basumallick, I. Chatterjee, P. Biswas, K. Dasgupta, **S. Bandyopadhyay**, “Fiber Bragg grating accelerometer with enhanced sensitivity,” Sensors and Actuators A: Physical, Elsevier, Europe, Volume 173, Issue 1, J, pp. 108-15, 2012.

11 T M Libish, M C Bobby, J Linesh, S Mathew, C Pradeep, V P N Nampoori, P Biswas, **S Bandyopadhyay,** "Detection of adulteration in virgin olive oil using a fiber optic long period grating based sensor", Laser physics, Volume 23 (2013) 045112 (5pp), 2013.

12 Nandini Basumallick, Palas Biswas, Kamal Dasgupta and **Somnath Bandyopadhyay**, “Design optimization of fiber Bragg grating accelerometer for maximum sensitivity,” Sensors and Actuators A: Physical, Elsevier, Europe, Volume 194, pp. 31-39, 2013

13 C. Bobby Mathews, T. M. Libish, J. Linesh, P. Biswas, **S. Bandyopadhyay**, K. Dasgupta, P. Radhakrishnan, “A Biosensor for the Detection and Estimation of Cholesterol Levels based on Long Period Gratings,” Sensors & Transducers Journal, UK, Volume 149, No. 2, pp. 83-88, 2013

14 Richard M. Carter, Robert R. J. Maier, Palas Biswas, **Somnath Bandyopadhyay**, Nandini Basumallick, Benjamin J. S. Jones, Scott McCulloch, and James S. Barton, "Characterization of LPGs via Correlation Analysis of an Analytical Solution With Observed Transmission Spectra" IEEE-OSA Journal Of Lightwave Technology, Volume 31, No. 18, September 15, 2013.

15 Palas Biswas, Nandini Basumallick, Kamal Dasgupta, and **Somnath Bandyopadhyay**, "Response of Strongly Over-Coupled Resonant Mode of a Long Period Grating to High Refractive Index Ambiance" IEEE/OSA, Journal Of Lightwave Technology, Volume 32, No. 11, pp. 2072-78., 2014.

16 F.Chiavaioli , P.Biswas , C.Trono , **S. Bandyopadhyay**, A.Giannetti , S.Tombelli , N. Basumallick , K.Dasgupta , F.Baldini, " Towards sensitive label-free immunosensing by means of turn-around point long period fiber gratings" Biosensors and Bioelectronics, 60, pp. 305–310, 2014.

17 Palas Biswas, Nandini Basumallick, Sankhyabrata Bandyopadhyay, Kamal Dasgupta, Ajay Ghosh, and **Somnath Bandyopadhyay**, "Sensitivity enhancement of Turn-Around-Point Long Period Gratings By Tuning Initial Coupling Condition" IEEE Sensors Journal, Volume 15, No. 2, pp. 1240-1245, 2015.

18 S. Silva, P. Biswas, **S. Bandyopadhyay**, P. A. Jorge, M. B. Marques, and O. Frazão, Fiber-Optic Cavity Ring Down using an Added-Signal for Curvature Sensing" IEEE Photonics Technology Letters, Volume 27, No. 19, pp. 2079-2081, 2015.

19 Francesco Chiavaioli, Palas Biswas, Cosimo Trono,Sunirmal Jana, Somnath Bandyopadhyay, Nandini Basumallick, Ambra Giannetti,Sara Tombelli,Susanta Bera,Aparajita Mallick, and Francesco Baldini, " Sol-gel based titania-silica thin film overlay for long period fiber grating-based biosensors" American Chemical Society (USA), 2015-87, pp. 12024−12031, 2015.

20 Palas Biswas, Nandini Basumallick, Kamal Dasgupta, Ajay Ghosh and **Somnath Bandyopadhyay,** "Application of strongly over-coupled resonant modes of long period fiber grating to measure adulteration of olive oil" Applied Optics, Volume 55, No. 19 , pp. 5118-5126, 2016

21 Nandini Basumallick, Palas Biswas, Richard Mark Carter, Robert R. J. Maier, Sankhyabrata Bandyopadhyay, Kamal Dasgupta, and **Somnath Bandyopadhyay**, " Design of Palladium-Coated Long-Period Fiber Grating for Hydrogen Sensing" Journal of Lightwave Technology, IEEE, Volume 34, No. 21, pp. 4112-4119, 2016.

22 Richard M. Carter, Robert R. J. Maier, Palas Biswas, Nandini Basumallick, **Somnath Bandyopadhyay**, Benjamin J. S. Jones, Scott McCulloch, and James S. Barton, " Experimental Difficulties With LPG Sensors Operating Close to the Phase Turning Points' Journal of Lightwave Technology, IEEE, Volume 34, No. 17, pp. 3999-4004, 2016.

23 Nandini Basumallick, Palas Biswas, Rajib Chakraborty, Sushanta Chakraborty, Kamal Dasgupta and **Somnath Bandyopadhyay**, “Fibre Bragg grating based accelerometer with extended bandwidth,” Measurement Science and Technology, IOP, UK, Volume 27, Number 3, 035008 (8pp), 2016.

24 Tanoy Kumar Dey, Palas Biswas, Nandini Basumallick, Sankhyabrata Bandyopadhyay, and **Somnath Bandyopadhyay**, “Realization of Long Period Fiber Grating In Reflection Mode Operating Near Turn Around Point,” IEEE Sensors, Volume17,Issue 13, pp. 4100 – 4106, 2017

25 Palas Biswas, Francesco Chiavaioli, Sunirmal Jana, Nandini Basumallick, Cosimo Trono, Ambra Giannetti, Sara Tombelli, Susanta Bera, Aparajita Mallick, Francesco Baldini, and **Somnath Bandyopadhyay**, “Design, Fabrication and Characterisation of Over-Coupled Long Period Fibre Grating Coated with Sol-Gel-based Tio2-Sio2Thin Films as High Refractive Index Overlay Towards Bio-Sensing Application,” Sensors and Actuators-B Chemical, Volume.17,Issue 13, pp. 4100 – 4106, 2017

26 Sankhyabrata Bandyopadhyay, Palas Biswas, Francesco Chiavaioli, Tanoy Kumar Dey, Nandini Basumallick, Cosimo Trono, Ambra Giannetti, Sara Tombelli, Francesco Baldini, **Somnath Bandyopadhyay**, “Long-period fiber grating: a specific design for biosensing applications,” Applied Optics, Volume 56, Issue 35, , pp. 9846-9853, 2017

27 Sankhyabrata Bandyopadhyay, Ignacio Del Villar, Nandini Basumallick, Palas Biswas, Tanoy Kumar Dey, **Somnath Bandyopadhyay**, “Long period fiber grating for biosensing: an improved design methodology to enhance add-layer sensitivity,” IEEE Journal of Lightwave Technology, Volume 36, Issue 4, pp. 1178-1184, 2018

28 Sankhyabrata Bandyopadhyay, Nandini Basumallick, Sandip Bysakh, Tanoy Kumar Dey, Palas Biswas, **Somnath Bandyopadhyay**, “Design of turn around point long period fiber grating sensor with Au-nanoparticle self monolayer,” Optics & Laser Technology, Volume 102, pp 254 – 261, 2018

29 “Analysis of the lowest order cladding mode near turn around point,” Tanoy Kumar Dey, Sara Tombelli, Palas Biswas, Ambra Giannetti, Nandini Basumallick, Francesco Baldini, **Somnath Bandyopadhyay**, Cosimo Trono, Journal of Lightwave Technology, (Early access date of publication: 16.4.2020), DOI:10.1109/JLT.2020.2987795

30 Wideband Fiber Bragg Grating Accelerometer Suitable for Health Monitoring of Electrical Machines, Nandini Basumallick; Sayantani Bhattacharya; Tanoy Kumar Dey; Palas Biswas; **Somnath Bandyopadhyay, I**EEE, Sensors, Volume: 20, Issue: 24, Dec.15, 2020

List of publication in International Conference Proceedings:

1. K. Kesavan, S. Parivallal, B. Arun Sundaram, P. Biswas, **S. Bandyopadhyay,** K. Ravisankar and K. Dasgupta , "Health monitoring of concrete structures using packaged fiber optic sensor" March 5-6, 2010, 3rd international earthquake symposium,Dhaka, Bangladesh.

2. Vishnuprasad V.J., Palas Biswas, **Somnath Bandyopadhyay**, Nirmal K. Viswanathan, Balaji Srinivasan Predicting the Decay of Fiber Bragg Gratings from their Growth,June 21-24, 2010 Photosensitivity and Poling in Glass Waveguides (BGPP), Karlsruhe, Germany,OSA Technical Digest (CD) , 2010 paper BTuB4.OSA.

3. Linesh J, Libish TM, P. Biswas, **S. Bandyopadhyay**, K. Dasgupta, P. Radhakrishnan and V. P. N. Nampoori, Effect of etching on the refractive index and temperature sensitivty of a fiber Bragg grating12-15 December-2010, International Conference on Fiber Optics Photonics (Photonic-2010) IIT-G, India.

4. T. M. Libish, J. Linesh, P. P. Anish, P. Biswas, **S. Bandyopadhyay**, K. Dasgupta and P. Radhakrishnan Adulteration detection of coconut oil using long period fiber grating, 12-15 December-2010 International Conference on Fiber Optics Photonics (Photonic-2010), IIT-G, India.

5. **S. Bandyopadhyay,** J. Canning, P. Biswas, M. Stevenson and K. Dasgupta, "High temperature stable regenerated Bragg grating: Impact of doping concentration on thermal regeneration"7-9th Sept, 2010, Fourth European Workshop on Optical Fibre Sensors (EWOFS-2010),. Porto, Portugal, Post dead line paper pp: 25-28.

6. Palas Biswas, **Somnath Bandyopadhyay**, Avishek Ghosh and Kamal Dasgupta, "Ultrasound sensing Using Superimposed Fiber Bragg Grating"7-9th Sept, 2010, Fourth European Workshop on Optical Fibre Sensors (EWOFS-2010),.Porto, Portugal, Post dead line paper.

7. Palas Biswas, Nandini Basumallick, Kamal Dasgupta and **Somnath Bandyopdhayay,** "Over coupled long period grating with enhanced sensitivity to refractive index higher than that of cladding.Dec, 2012 Paper ID: T2B.3,International Conference on Fiber Optics and Photonics,IIT, Chennai, IndiaOSA, USA.

8. Richard M. Carter, Robert R. J. Maier, Palas Biswas, **Somnath Bandyopadhyay,** Nandini Basumallick, Ben J.S. Jones, Scott McCulloch and James S. Barton, "Modelling of long period gratings with metallic (Pd) jacket" 3-6 Sept 2012.Photon 12 Conference, Durham, UK, IOP, UK.

9. Richard M. Carter, Robert R. J. Maier, Palas Biswas, **Somnath Bandyopadhyay,** Nandini Basumallick, Ben J.S. Jones, Scott McCulloch and James S. Barton, "Characterisation of a long period grating refractive index profile through correlation analysis" 3-6 Sept 2012.Photon 12 Conference Durham, UK, IOP, UK.

10. Richard M. Carter, Robert R. J. Maier, Palas Biswas, **Somnath Bandyopadhyay,** Nandini Basumallick, Benjamin J. S. Jones, Scott McCulloch and James S. Barton, "Increased sensitivity of long period grating hydrogen sensors through coupling to higher order cladding modes" October 17, 2012). International Conference on Optical Fiber Sensors (OFS-22,China,Proc. SPIE 8421, OFS 2012, SPIE).

11. S.R. Rajan, Palas Biswas, Prasanta Kumar Sinha, NandiniBasumallick, Kamal Dasgupta and SomnathBandyopadhyay, "Turn-Around-Point (TAP) Long Period Grating as Cadmium Concentration Sensor January 23-25, 2013" XXXVII National Symposium of Optical Society of India, Pondicheri, India,OSI, India.

12. F. Chiavaioli, P. Biswas, C. Trono, A. Giannetti, S. Tombelli, **S. Bandyopadhyay,** N. Basumallick K. Dasgupta F. Baldini, "IgG/anti-IgG immunoassay based on a turn-around point long period grating February 2014 Advanced Biomedical and Clinical Diagnostic and Surgical Guidance Systems XII" BIOS Photonics West, Photonics west, USA Proc., Advanced Biomedical and Clinical Diagnostic Systems, SPIE, USA.

13. Ajay Yadav, Palas Biswas, Nandini Basumallick, **Somnath Bandyopadhyay**, Jitendra Kumar and Kamal Dasgupta "Comparison between Polyimide Coated Fiber Grating and Hydrogel Coated Long Period Grating for Measuring Sugar and Salt Concentration" Dec, 2013, International Conference on Microwaves and Photonics (ICMAP 2013)" 13-15 Dec, 2013,ISM, Dhanbad.

14. I. M. Nascimento; C. Gouveia ; Surnimal Jana ; Susanta Bera ; J.M. Baptista ;Paulo Moreira ; Palas Biwas ; **Somnath Bandyopadhyay** ; Pedro A. S. Jorge "High refractive index and temperature sensitivity LPGs for high temperature operation"July 22, 2013 8th Ibero-american Optics Meeting and 11th Latin American Meeting on Optics, Lasers, and Applications, Porto, PortugalProc.SPIE,8785, doi:10.1117/12.2027573), SPIE.

15. Palas Biswas, Tanoy Kumar Dey, Nandini Basumallick, Prasanta Kumar Sinha, Kamal Dasgupta and **Somnath Bandyopadhyay** "Design of long period fiber grating with optimal sensitivity for detecting adhesion of nano-layer on the fiber surface", 23rd International Conference on Optical Fibre Sensors, Spain, 2014. Proc. of SPIE Vol. 9157, 91573F © 2014 SPIE doi: 10.1117/12.2059690.

16. Sankhyabrata Bandyopadhyay, Tanoy Dey, Nandini Basumallick, Palas Biswas, Prasanta Sinha, Kamal Dasgupta, and **Somnath Bandyopadhyay**, "Five-Layer Long Period Grating Architecture: A Tool for More Accurate Interpretation of Bio-molecular Interaction"International Conference on Fibre Optics and Photonics, IIT-KGP, India, December 13-16, 2014, ISBN: 978-1-55752-882-7.

17. Srimoyee Sengupta, Nandini Basumallick, Sayantani Bhattacharya, Palas Biswas, Samar Bhattacharya, and **Somnath Bandyopadhyay,** "Athermal Fiber Bragg Grating Strain Sensor Packages for Health Monitoring of Railway Pantograph," International Conference on Fibre Optics and Photonics, IIT-KGP, India, December 13-16, 2014. http://dx.doi.org/10.1364/ PHOTONICS. 2014.S5A.16, ISBN: 978-1-55752-882-7.

18. Tanoy Dey, Sankhyabrata Bandyopadhyay, Palas Biswas, Nandini Basumallick, Prasanta Sinha, Kamal Dasgupta, and **Somnath Bandyopadhyay,** "A Technique of Fine Tuning Self Assembled Layer Thickness on Long Period Grating Near Mode

Transition" International Conference on Fibre Optics and Photonics IIT- KGP, India, Dec, 2014, Optical Society of America, USA,http://dx.doi.org/10.1364/PHOTONICS.2014.M4A.8 ISBN: 978-1-55752-8827.

19. Chiavaioli F, Trono C, Giannetti A, Tombelli S, Biswas P, **Bandyopadhyay S**, Jana S, Bera S, Mallick A, Baldini F, "Label-Free IgG/Anti-IgG Biosensing Based on Long Period Fiber Gratings: A Comprehensive Feasibility Study" In: Proceedings Of SPIE Photonics West 2015, Advanced Biomedical And Clinical Diagnostic And Surgical Guidance Systems XIII, Vol. 9313, P. 93130R. USA, Feb, 2015, SPIE, USA.

20. Chiavaioli F, Trono C, Biswas P, **Bandyopadhyay S**, Giannetti A, Tombelli S, Basumullick N, Dasgupta K, Baldini, "Turn-Around Point Long Period Fiber Gratings For Label-Free Immunosensing",Oral Session In: FOTONICA Convegno Italiano DelleTecnologie Fotoniche, Naples, Italy. May-2014.

21. Chiavaioli F, Trono C, Giannetti A, Tombelli S, Baldini F, Biswas P, **Bandyopadhyay S**, "Emergent And Effective Optical Approach For Label-Free Biosensing using Long Period Fiber Gratings", LET'S (Leading Enabling Technologies For Societal Challenges), Bologna, Italy, October 2014.

22. Chiavaioli F, Biswas P, Trono C, Giannetti A, Tombelli S, **Bandyopadhyay S**, BaldiniF, "Performance Assessment Of Long Period Fiber Gratings As Biosensors: A Comparative Analysis", Poster Session In: AISEM XVIII, Trento (TN), Italy, 3–5 February 2015.

23. Chiavaioli F, Biswas P, Trono C, Giannetti A, Tombelli S**, Bandyopadhyay S**, Jana S, Bera S, Mallick A, Falciai R, Baldini F, "Standard, Turn-Around Point And Sol-Gel Coated Long Period Fiber Gratings As Optical Platforms For Label-Free Biosensing" Poster Session In: SPIE Optics + Optoelectronics, Prague, Czech Republic. April 2015, SPIE, USA

24. Sucheta Sharma, Tanoy Kumar Dey, Nandini Basumallick, Palas Biswas, Prasanta Kumar Sinha, Kamal Dasgupta and **Somnath Bandyopadhyay**, "Study on the thermal stability of metal coated Fiber Bragg grating at high temperature environment", International Conference on Optics and Photonics (ICOP),India, 2015, Paper Code:IOP15-P400-132 , SPIE, USA

25. Sayantani Bhattacharya, Nandini Basumallick, Palas Biswas, Kamal Dasgupta and **Somnath Bandyopadhyay**, "L-shaped cantilever based fiber Bragg grating accelerometer with enhanced sensitivity", International Conference on Optics and Photonics (ICOP), India, 2015, Paper Code:IOP15-P400-99 SPIE, USA.

26. Tanoy Kumar Dey, Sankhyabrata Bandyopadhyay, Palas Biswas, Nandini Basumallick, Prasanta Kumar Sinha, Kamal Dasgupta, **Somnath Bandyopadhyay,** "pH sensor using Long Period Fiber Grating with Polymeric Overlay" International Conference on Optics and Photonics (ICOP), India, 2015, Paper ID: ICOP 2015,P-110, SPIE, USA.

27. F. Chiavaioli, C. Trono, P. Biswas , **S. Bandyopadhyay**, A. Giannetti, S. Tombelli, F. Baldini, "Comparative Assessment Of The Performance Of Long Period Fiber Grating-Based Biosensors", SPIE Optics + Optoelectronics, Prague, Czech Republic, 2015, SPIE.

28. Palas Biswas, Francesco Chiavaioli, Sunirmal Jana, **Somnath Bandyopadhyay**, Nandini Basumallick, Ambra Giannetti, Sara Tombelli, Susanta Bera, Aparajita Mallick, Francesco Baldini and Cosimo Trono "Manufacturing and Optimization of Sol-gel-based

TiO2-SiO2 thin Films as High Refractive Index Overlays for Long Period Grating-based Biosensing." 4th International Conference on Photonics, Optics and Laser Technology),pp. 351-357, 2016 ISBN: 978-989-758-174-8.

29. Tanoy K. Dey, Palas Biswas, Sankhyabrata Bandyopadhyay, Nandini Basumallick, Kamal Dasgupta and **Somnath Bandyopadhyay**, "Sensitivity Analysis of a Dispersed Clad Mode to Surrounding Refractive Index", II International Conference on Microwave and Photonics (ICMAP – 2015), ISM, Dhanbad, India, 2015.

30. Palas Biswas, Tanoy Kumar Dey, Nandini Basumallick, Sankhyabrata Bandyopadhyay, Ajay Ghosh and **Somnath Bandyopadhyay**, "Realization of high sensitive refractive index sensor with enhanced contrast using an over coupled long period fiber grating operating at mode transition" The International Conference on Fiber Optics and Photonics, IIT-Kanpur, India, Dec, 2016, ID number. Tu3G. 4, Optical Society of America.

31. Tanoy Kumar Dey, Palas Biswas, Sankhyabrata Bandyopadhyay, Soham Kanti Bishnu, Nandini Basumallick, **Somnath Bandyopadhyay**, "Reflection Type Superstructure Fiber Bragg Grating for Simultaneous Measurement of Refractive Index and Temperature" The International Conference on Fiber Optics and Photonics, IIT-Kanpur, India, Dec, 2016, ID number. Th3A. 64., Optical Society of America.

32. Sayantani Bhattacharya, Nandini Basumallick, SrimoyeeSengupta, Palas Biswas and **Somnath Bandyopadhyay**, "Sensitivity Enhancement of an In-Line Fiber Optic Fabry–Perot Interferometric Vibration Sensor" The International Conference on Fiber Optics and Photonics, IIT-Kanpur, India, Dec, 2016, ID number. Th3A. 57., Optical Society of America.

33. Sankhyabrata Bandyopadhyay, Animesh Jana, Sourja Ghosh, Tanoy Kumar Dey, Nandini Basumallick, Palas Biswas, Swachchha Majumder, **Somnath Bandyopadhyay** "Gold Nanoparticle Coated Long Period Fiber Grating for Detection of Arsenic (III) in water" The International Conference on Fiber Optics and Photonics, IIT-Kanpur, India, Dec, 2016, ID number. Th3A. 55, Optical Society of America.

34. P. Biswas, S. Sharma, J. Canning and **S. Bandyopadhyay** "Regenerated Gratings: Redefined" Oral Presentation (presented by Prof. John Canning) 2016 Photonics and Fiber Technology Congress (ACOFT, BGPP, NP) Australia, Nov, 2016, ID number. BTh3B.3.pdf, Optical Society of America.

35. **Somnath Bandyopadhyay**, Ignacio Del Villar, Sankhyabrata Bandyopadhyay, Palas Biswas, Nandini Basumallick and Tanoy Kumar Dey Long period fiber gratings for bio-sensing: An improved design Methodology 25th International conference on Optical fiber Sensors, Vol.: 10323, Korea, Dec,2017, SPIE.

36. Sayantani Bhattacharya, Palas Biswas, John Canning and Somnath Bandyopadhyay, "Investigations on annealing for optimal Bragg grating regeneration", Photonics -2018: International Conference On Fiber Optics And Photonics, Dec, 2018, Proceedings of the Photonics – 2018, ISBN 978-93-88653-41-1.

37. Tanoy Kumar Dey, Palas Biswas, Nandini Basumallick, Somnath Bandyopadhyay, " Add-layer Sensitivity of a Turn Around Point of Long Period Fiber Grating with Overlay Layer " International Conference On Fiber Optics And Photonics, Dec, 2018, Proceedings of the Photonics – 2018, ISBN 978-93-88653-41-1.

38. Invited talked **Somnath Bandyopadhyay**. “Highly sensitive long period fiber gratings for chemical and bio-sensing applications” International Conference on Fibre Optics and Photonics, December 12-15, 2018, New Delhi, India.

39. Nandini Basumallick, Sayantani Bhattacharya, Tanoy Kumar Dey, Palas Biswas and Somnath Bandyopadhyay, " Fiber Bragg Grating Accelerometer for Electrical Machines in High Voltage Environment", " International Conference On Fiber Optics And Photonics, Dec, 2018, Proceedings of the Photonics – 2018, ISBN 978-93-88653-41-1.

40. Somnath Bandyopadhyay, Palas Biswas and Nandini Basumallick, “Fiber Bragg Grating Sensors: Structural Health Monitoring in High Voltage Environment”, International Conference On Optics And Electro-Optics (ICOL-2019) (XLIII Symposium Of Optical Society Of India), October 19th - 22nd 2019, Dehradun, India Paper id. FIN-IT-05.

41. Nandini Basumallick, Rajarshi Mitra, Dipten Kumar, Palas Biswas, Somnath Bandyopadhyay, “Temperature Compensated Dynamic Strain Measurement using Twin Fiber Bragg Gratings and Tunable Laser Interrogation with Noise Cancelation”, International Conference on Optics and Electro-Optics (ICOL-2019) (XLIII Symposium Of Optical Society Of India), October 19th - 22nd 2019, Dehradun, India, paper id EOS-OP-05.