## **List of Publications:**

## **SCI Journals:**

- [1] Amala Jose, **Sourav Das Chowdhury**, Sudharsan Balasubramanian, Katarzyna Krupa, Zhiqiang Wang, B. N. Upadhyay, Philippe Grelu, and Nithyanandan Kanagaraj. "Noise-Like Pulse Seeded Supercontinuum Generation: An In-Depth Review for High-Energy Flat Broadband Sources." Laser & Photonics Reviews 2400511 (2024)
- [2] Uttam Kumar Samanta, **Sourav Das Chowdhury**, and Mukul Chandra Paul. "Modelling of a Lyot filter based Mamyshev oscillator." Optical Fiber Technology 83, 103650 (2024)
- [3] Uttam Kumar Samanta, **Sourav Das Chowdhury**, and Mukul Ch Paul. "Pump power induced instability and hysteresis in an all-normal dispersion linear mode-locked fiber laser." Laser Physics 33, 075101 (2023)
- [4] Uttam Kumar Samanta, **Sourav Das Chowdhury**, and Mukul Chandra Paul. "Generation of stable Q-switched pulses at 1566 nm by using a segment of erbium-doped fiber as saturable absorber." Laser Physics 32, 085104 (2022)
- [5] Debparna Majumder, Sourav Das Chowdhury, and Atasi Pal, "Design and fabrication of a tapered fiber bundle for a pump combiner with a uniform splicing region," J. Opt. Soc. Am. B 39, 1871-1878 (2022)
- [6] Debparna Majumder, **Sourav Das Chowdhury**, and Atasi Pal, "Mode-Field Matched Pump-Signal Combiner for High Power Fiber Laser in Advanced Manufacturing," in IEEE Journal of Selected Topics in Quantum Electronics, vol. 27, no. 6, pp. 1-9 (2021)
- [7] Nilotpal Choudhury, Sajib Chowdhury, **Sourav Das Chowdhury**, Nishant Kumar Shekhar, Deepak Jain, Ranjan Sen, and Anirban Dhar. "Novel dopant tailored fibers using vapor phase chelate delivery technique." physica status solidi (a) 219, 2100484 (2022)
- [8] **Sourav Das Chowdhury**, Bhaswar Dutta Gupta, Sayan Chatterjee, Ranjan Sen, and Mrinmay Pal. "Explosion induced rogue waves and chaotic multi-pulsing in a passively mode-locked all-normal dispersion fiber laser." Journal of Optics 22, 065505 (2020)
- [9] Sourav Das Chowdhury, Bhaswar Dutta Gupta, Mrinmay Pal, "Multi-Wavelength, Nano-Second Actively Mode-locked Yb-Fiber Oscillator with 100 nm Wide Raman Broadened Spectrum", Optics & Laser Technology 123, 105905 (2020)
- [10] Bhaswar Dutta Gupta, Sourav Das Chowdhury, Devnath Dhirhe, and Mrinmay Pal, "Intermittent events due to spectral filtering induced multi-pulsing instability in a mode-locked fiber laser," J. Opt. Soc. Am. B 37, 2278-2286 (2020)
- [11] **Sourav Das Chowdhury**, Bhaswar Dutta Gupta, Sayan Chatterjee, Ranjan Sen, and Mrinmay Pal, "Rogue waves in a linear cavity Yb-fiber laser through spectral filtering induced pulse instability," Opt. Lett. 44, 2161-2164 (2019).
- [12] **Sourav Das Chowdhury**, Subrata Manna, Sayan Chatterjee, Ranjan Sen, and Mrinmay Pal. "Mega-Hertz repetition rate broadband nano-second pulses from an actively mode-locked Yb-fiber laser." Laser Physics vol. 29, 035102 (2019).
- [13] Debasis Pal, **Sourav Das Chowdhury**, Anirban Dhar, Siddharth Saraf, Krishnendu Maiti, Dilip Kumar Pal, Ranjan Sen, and Atasi Pal, "Ex vivo testing of air-cooled CW/modulated 30 W thulium fiber laser for lithotripsy," Appl. Opt. 58, 6720-6724 (2019)
- [14] Debasis Pal, Aritra Paul, Nishant Kumar Shekhar, **Sourav Das Chowdhury**, Ranjan Sen, Kabita Chatterjee, Atasi Pal, "COM Stone Dusting and Soft Tissue Ablation with Q-Switched

- Thulium Fiber Laser," in IEEE Journal of Selected Topics in Quantum Electronics, vol. 25, 1-8 (2019)
- [15] **Sourav Das Chowdhury**, Atasi Pal, Sayan Chatterjee, Ranjan Sen, and Mrinmay Pal, "Multipulse Dynamics of Dissipative Soliton Resonance in an All-Normal Dispersion Mode-Locked Fiber Laser," J. Lightwave Technol. 36, 5773-5779 (2018)
- [16] **Sourav Das Chowdhury**, Atasi Pal, Sayan Chatterjee, Ranjan Sen, and Mrinmay Pal, "Diverse mode of operation of an all-normal-dispersion mode-locked fiber laser employing two nonlinear loop mirrors," Appl. Opt. 57, 1225-1230 (2018)
- [17] Debasis Pal, Aritra Paul, **Sourav Das Chowdhury**, Mrinmay Pal, Ranjan Sen, and Atasi Pal, "Hybrid pumped gain-switched thulium fiber laser at a high repetition rate," Appl. Opt. 57, 3546-3550 (2018)
- [18] **Sourav Das Chowdhury**, Atasi Pal, Debasis Pal, Sayan Chatterjee, Mukul C. Paul, Ranjan Sen, and Mrinmay Pal, "High repetition rate gain-switched 1.94 μm fiber laser pumped by 1.56 μm dissipative soliton resonance fiber laser," Opt. Lett. 42, 2471-2474 (2017)
- [19] Maitreyee Saha, **Sourav Das Chowdhury**, Nishant Kumar Shekhar, Atasi Pal, Mrinmay Pal, Chandan Guha, and Ranjan Sen, "Yb-Doped Pedestal Silica Fiber Through Vapor Phase Doping for Pulsed Laser Applications," in IEEE Photonics Technology Letters, vol. 28, 1022-1025, (2016).
- [20] Anirban Dhar, Mukul Chandra Paul, **Sourav Das Chowdhury**, Mrinmay Pal, Atasi Pal, and Ranjan Sen, "Fabrication and properties of rare-earth-doped optical fiber using barium as an alternate codopant", Phys. Status Solidi A, 1–7 (2016)
- [21] Aditi Ghosh, Arpita Sinha Roy, **Sourav Das Chowdhury**, Ranjan Sen, Atasi Pal, All-fiber tunable ring laser source near 2 μm designed for CO2 sensing, Sensors and Actuators B: Chemical, 235, 547-553 (2016).
- [22] Ranjan Sen, Maitreyee Saha, **Sourav Das Chowdhury**, Nishant Kumar Shekhar, Debasis Pal, Aditi Ghosh, Anirban Dhar, Atasi Pal and Mrinmay Pal, "High Power Fiber Lasers: Fundamentals to Applications", in Indian Science and Culture, Vol. 81, 291 298 (December 2015).

## **International Conference Proceedings:**

- [1] **Sourav D. Chowdhury**; Nishant Shekhar; Maitreyee Saha; Ranjan Sen; Mrinmay Pal, "Broadband generation by multiple four-wave mixing process due to ASE Q-switching in high power double-clad ytterbium-doped fiber amplifier", Proc. SPIE 9266, High-Power Lasers and Applications VII, 926610, 2014 (Oral Presentation)
- [2] **S. Das Chowdhury**, D. K. Mahato, S. Chatterjee, R. Sen, and M. Pal, "Dissipative Soliton Resonance Dynamics in a Non-linear Amplifying Loop Mirror Based Mode-locked Cavity," in 13th International Conference on Fiber Optics and Photonics, OSA Technical Digest (online) (Optical Society of America, 2016), paper Th2C.3. (Oral Presentation)
- [3] **S. D. Chowdhury**, N. K. Shekhar, M. Saha, R. Sen, and M. Pal, "Spatial, Spectral and Temporal Study of Self-pulsing in CW Yb-Fiber Laser due to Saturable Absorption Effect," in 12th International Conference on Fiber Optics and Photonics, OSA Technical Digest (online) (Optical Society of America, 2014), paper S5A.41. (SPIE Best Paper Award)
- [4] **S. Das Chowdhury**, Atasi Pal, Debasis Pal, Sayan Chatterjee, Mukul C. Paul, Ranjan Sen, and Mrinmay Pal, "Sub 100 NS TM Gain-Switched Fiber Laser Pumped by Rectangular Pulse Er: Yb Fiber Laser and Effect on Tissue Ablation," 2017 IEEE Workshop on Recent Advances in Photonics (WRAP), Hyderabad, India, 2017, pp. 1-3. (IEEE Photonics Society Best Poster Award)

[5] **S. D. Chowdhury**, B. D. Gupta, and M. Pal, "Observation of Rogue Waves in Stretched Pulse Train from a Linear Cavity Mode-locked Fiber Laser," in Nonlinear Optics (NLO), OSA Technical Digest (Optical Society of America, 2019), paper NTu4A.21

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