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Wireless Communication, Fiber Laser, Optic Sensors, Micro-Structured Fiber

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**List of Publications**

1.	Realization of all-optical multiplexer-demultiplexer in mid-IR wavelengths using triple-core photonic quasi-crystal fiber M Manimarabopathy, GAS Kumar, J Mohanraj, M Valliammai Optics Communications, 126556	2020
2.	Realization of all optical JK flipflops in mid-IR wavelengths Using Triple-core Photonic Crystal Fiber M Valliammai, J Mohanraj, M Manimarabopathy, GAS Kumar, ... 2019 Workshop on Recent Advances in Photonics (WRAP), 1-3	2019
3.	Spectrum Analysis of Ytterbium-Doped Hybrid Mode-Locked Fiber Laser J Mohanraj, M Valliammai 2019 Workshop on Recent Advances in Photonics (WRAP), 1-3	2019
4.	Refractive Index based Biosensor using Photonic Quasi Crystal Fiber for Detection of Metastasis Tumor cells in brain S Sridevi, J Mohanraj, M Valliammai 2019 Workshop on Recent Advances in Photonics (WRAP), 1-3	2019
5.	Tunable passively Q-switched ytterbium-doped fiber laser using MoWS <sub>2</sub> /rGO nanocomposite saturable absorber J Mohanraj, V Velmurugan, S Sivabalan Opto-Electronics Review 27 (1), 18-24	2019
6.	Graphene–Metal–Organic Framework-Modified Electrochemical Sensors D Durgalakshmi, RA Rakkesh, J Mohanraj Graphene-based electrochemical sensors for biomolecules, 275-296	2019
7.	Acerbi, F., Paternoster, G., Gola, A., Regazzoni, V., Zorzi, N., and Piemonte, C., High-Density Silicon Photomultipliers: Performance and Linearity Evaluation for High ... G Agnew, A Grier, T Taimre, K Bertling, YL Lim, Z Ikonik, P Dean, ... IEEE Journal of Quantum Electronics 54 (6), 1	2018
8.	Mixed Transition Metal Dichalcogenide as Saturable Absorber in Ytterbium, Praseodymium, and Erbium Fiber Laser ZCT Harith Ahmad , S. N. Aidit, J. Mohanraj, S. Sivabalan , K. Thambiratnam ... IEEE Journal of Quantum Electronics 54 (3), 1-9	2018
9.	All fiber-optic ultra-sensitive temperature sensor using few-layer MoS <sub>2</sub> coated D-shaped fiber	2018

	J Mohanraj, V Velmurugan, S Sathiyar, S Sivabalan Optics Communication 406, 139-144	
10.	Experimental generation of dark solitons in an all normal dispersion ytterbium doped fiber laser J Mohanraj, S Sivabalan 2017 Progress in Electromagnetics Research Symposium-Fall (PIERS-FALL), 455-458	2017
11.	Passively Q-switched Ytterbium-Doped Fiber Laser using MoS 2-PVA Saturable Absorber J Mohanraj, S Sathiyar, S Sivaraj International Conference on Fibre Optics and Photonics, W3A. 38	2016
12.	Transition metal dichalcogenides based saturable absorbers for pulsed laser technology J Mohanraj, V Velmurugan, S Sivabalan Optical Materials 60 (10), 601-617	2016
13.	Design of Octagonal Core Micro-cladding Leakage Channel Fiber with Low Bending Loss M Valliammai, J Mohanraj, S Sivabalan, K Senthilnathan, P Rameshbabu Workshop on Recent Advances in Photonics (WRAP), 1-4	2015