School of studies in Electronics and Photonics Pt. RavishankarShukla University Raipur (C. G.) July 2016 – June 2021

Journal Publication				
S. No.	Title of paper	Name of the author/s	Name of journal	Year of publication
1.	SrS: Ce 3+ thin films for electroluminescence device applications deposited by electron-beam evaporation deposition method	S Mishra, DS Kshatri, A Khare, S Tiwari, PK Dwivedi	Materials Letters	2016
2.	NanocrystallineSrS: Ce3+ system for the generation of white light-emitting diodes	S Mishra, DS Kshatri, A Khare, S Tiwari	Luminescence	2016
3.	Optical Properties of Rare Earth Doped SrS Phosphor: A Review	A Khare, S Mishra, DS Kshatri, S Tiwari	Journal of Electronic Materials	2016
4.	Directional Fuzzy Edge detection based on Modified Edge Regeneration system for efficient JPEG Artifacts Reduction	Vikrant Singh Thakur, Dr Kavita Thakur, Dr Shubhrata Gupta	Journal of Ravishankar University, Part B (Science)	2016
5.	Diminution in photoluminescent intensity of SrS: Ce 3+ phosphor due to increased milling time	S Mishra, A Khare, S Tiwari, DS Kshatri	Journal of Alloys and Compounds	2017
6.	Enhanced Photovoltaic Performance via Co-sensitization of Ruthenium (II)-Based Complex Sensitizers with Metal-Free Indoline Dye in Dye-Sensitized Solar Cells	S Tiwari Swati Sahu, Mohan Patel, Anil Kumar Verma, Surya Prakash Singh	Organic Photonics and Photovoltaics	2017
7.	Fabrication, characterization and electroluminescence studies of SrS: Ce 3+ ACTFEL device	S Mishra, DS Kshatri, A Khare, S Tiwari, PK Dwivedi	Materials Letters	2017

8.	Enhanced Photovoltaic Performance of Dye-Sensitized Solar Cells via Sensitization of NanocrystallineTiO Films with Metal-Free Indoline Dye	Swati Sahu, Rajesh Awasthy, Mohan Patel, Anil Verma, Sanjay Tiwari	Journal of Ravishankar University, Part B (Science)	2017
9.	A Low Cost Efficient Model for Automatic Barricading of Unmanned Railroad Level Crossings	S Tiwari	International Journal of Computer Applications	2018
10.	Future Challenges of Cloud Computing	TanujTiwari, Tanya Tiwari, Sanjay Tiwari and ShikhaTiwari	European Journal of Advances in Engineering and Technology	2018
11.	Wi-Fi Security System Based on Innovative Technology	TanujTiwari, Tanya Tiwari, Sanjay Tiwari	American Journal of Computer Science and Engineering	2018
12.	Hybrid WPT-DCT Transform for High-Quality Image Compression	Vikrant Singh Thakur, Dr Shubrata Gupta, Dr Kavita Thakur	IET Image Processing	2017
13.	Optimum JPEG Quantization Table Generation for High Quality Image Compression Using Multiobjective Evolutionary Optimization Based on Decomposition	Vikrant Singh Thakur, Kavita Thakur, Shubhrata Gupta	International Journal of Electronics, Electrical and Computational System (IJEECS)	2017
14.	Research Impact of Astronomical Image Processing	G R Sinha, Kavita Thakur, PrafullaVyas	International Journal of Luminescence and Applications,	2017
15.	Image Processing Techniques for Remote Sensing Applications	G R Sinha, Kavita Thakur	International Journal of Luminescence and Applications,	2017
16.	Efficient SEM Image Compression for High-Quality Reproduction of Nanomaterials Images using lapped Biorthogonal Transform and Block Variance Classified Variable Rate Quantization	Vikrant Singh Thakur, Kavita Thakur, Shubhrata Gupta	International Journal of Luminescence and Applications,	2017

17.	A Heart Speech Model based on Correlation between Heart Parameters and Speech Features extracted from Speech Signal analysis	Kavita Thakur, Anjali Deshpande	International Journal of Luminescence and Applications,	2017
18.	Gradient Feature Based Improved Optimum Non- Negative Integer Bit Allocation for the DCT Based Coding.	Vikrant Singh Thakur, Shubhrata Gupta, Kavita Thakur, K S Rao	International Journal of Networks and Systems (IJNS)	2018
19.	Two Channel EEG Classification of Imagined Speech Brain Waves Using Machine Learning Technique	Sunandan Mandal, Kavita Thakur, Bikesh Kumar Singh and Heera Ram	International Journal of Current Engineering and Scientific Research	2019
20.	Efficient SEM Image Compression using Hybrid DWT-DCT Transform with Embedded Zero-Tree Coding	Vikrant Singh Thakur, Kavita Thakur, Shubhrata Gupta	International Journal of Current Engineering and Scientific Research	2019
21.	Improved Optimum Nonnegative Bit Allocation Algorithm using Fuzzy Domain Variance Estimation and Refinement for the Wavelet-Based Compression	Vikrant Singh Thakur, Kavita Thakur, Shubhrata Gupta, K R Rao	Circuits, Systems, and Signal Processing – Springer (on line),	2019
22.	Need of Automated System for Climatic Control and Irrigation	P. Vyas, K. Thakur	Journal of Microcontroller Engineering and Applications (JoMEA)	2019
23.	A review on perovskite solar cells: Evolution of architecture, fabrication techniques, commercialization issues and status	Priyanka Roy Numeshwar Kumar Sinha Sanjay TiwariAyushKhare	Solar Energy	2020
24.	Recent Progress in Organic Light-Emitting Diodes	S Tiwari M Singh A K Shrivastav	Journal of Nanoelectronics and Optoelectronics	2019
25.	Theoretical Approach to ITO/PVK/Dye/Inga Organic Light Emitting Diodes for Different Thickness of PVK Layer	Mohua Singh, A. K. Shrivastav, Sanjay Tiwari	Journal of Advanced Research in Physical Science	2019

26.	Image-Independent Optimal Non-negative Integer Bit Allocation Technique for the DCT based Image Transform Coders.	Vikrant Singh Thakur, Kavita Thakur, Shubhrata Gupta, Kamisetty R. Rao	IET Image Processing	2019
27.	A new hybrid post filtering technique for efficient JPEG artifacts reduction	Kavita Thakur, Vikrant Singh Thakur and Shubhrata Gupta	Grenze International Journal of Engineering and Technology, Special	2020
28.	Grayscale Based Spectral Information of EEG Signals for Classification of Epileptic Seizure	S. Mandal, K. Thakur, B.K. Singh	Alochana Chakra Journal (International)	2020
29.	Performance evaluation of spectrogram based epilepsy detection techniques using gray scale features	Sunandan Mandal, Kavita Thakur, Bikesh Kumar Singh, Heera Ram	Journal of Ravishankar University, Part B (Science)	2020
30.	Artificial intelligence based classification of schizophrenia: A high density Electroencephalographic and support vector machine study.	Sai Krishna Tikka, Bikesh Kumar Singh, S. HaqueNizamie, ShobitGarg, Sunandan Mandal,Kavita Thakur, Lokesh Kumar Singh	Indian Journal of Psychiatry	2020
31.	Perovskite Solar Cells an Efficient, Low Cost, Emerging Photovoltaic Technology	Yogesh Kumar Dongre* and Sanjay Tiwari	Journal of RavishankarShukla University, Part B (Science)	2020
32.	Preparation, Fabrication and Characterization of Sol-Gel ZnO Thin Films for Organic Solar Cells	Sanjay Tiwari Anil Kumar Verma, Swati Sahu, Mohan Patel	Journal of Ravishankar University (Part-B: Science)	2020
33.	Effect of the morphology with ZnO ETL and MoO3 HTL with varying PCDTBT: PC70BM solvent on the performance of BHJ Organic Solar Cells	Shukla N and Tiwari S Verma AK	Nanomaterials and Energy	2020
34.	Majority voting based hybrid feature selection in machine learning paradigm for epilepsy detection using EEG	Sunandan Mandal, Bikesh Kumar Singh, Kavita Thakur	International Journal of Computational Vision and Robotics (IJCVR), Inderscience Publisher	2021

35.	An improved symbol reduction based Huffman coder for efficient entropy coding in the transform coder.	Vikrant Singh Thakur, Kavita Thakur, Shubhrata Gupta	IET Image Processing (Wiley)	2020
36.	Classification of working memory loads using hybrid EEG and fNIRS in machine learning paradigm	Sunandan Mandal, Kavita Thakur, Bikesh Singh	IET Electronics Letters	2020
37.	Higher order statistics based blind steganalysis using deep learning	S. Bera, K. Thakur, P Vyas, T Dua	Journal of RavishankarShukla University, Part B (Science)	2021
38.	Modeling of Abnormal Hysteresis in CsPbBr3 based Perovskite Solar Cells	B Gopal Krishna; Sanjay Tiwari	Journal of RavishankarShukla University, Part B (Science)	2021
39.	Various Techniques of MPPT Based Charge Controller & Comparison of A/C with D/C Home Appliances - A Review	Gajendra Singh Rathore; B. Gopal Krishna; R.N. Patel; Sanjay Tiwari	Journal of RavishankarShukla University, Part B (Science)	2021