

School of studies in Electronics and Photonics
Pt. RavishankarShukla University Raipur (C. G.)
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Books and chapters published

S. No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Year of publication	Name of the publisher
1.	Dr. Sanjay Tiwari	Handbook of Ecomaterials, published by Nature Springer.	Optimization of Bulk heterojunction Organic Photovoltaic Devices			International	2017	Springer Nature, Cham, Print
2.	Dr. Sanjay Tiwari		Fabrication and Characterization of CdSe Quantum Dot-Sensitized Solar Cells by Successive Ionic Layer Adsorption and Reaction (SILAR) Process	International Conference on Fiber Optics and Photonics		International	2016	Optical Society of America Publishing
3.	Dr. Sanjay Tiwari		Optoelectronic Simulation for Light enhancement of P3HT: PC70BM Conventional BHJ OSCs	International Conference on Fiber Optics and Photonics		International	2016	Optical Society of America Publishing
4.	Dr. Sanjay Tiwari		Fabrication and Characterization of nanoporousTiO ₂ layer on photoanode by using Doctor Blade Method for dye-sensitized solar cells	International Conference on Fiber Optics and Photonics		International	2016	Optical Society of America Publishing
5.	Dr. Sanjay Tiwari		Highly sensitive TiO ₂ thin film matrix biosensor for glucose detection in blood	Conference: TENCON 2016 - 2016 IEEE Region 10			2016	Springer Nature, Cham, Print

				Conference				
6.	Dr.Kavita Thakur		Perceptive Performance Analysis of Discrete Orthogonal Cosine Stockwell Transform for Low Bit-Rate Image Compression,Vikrant Singh Thakur, Shubhrata Gupta , Kavita Thakur	Recent Trends in Engineering, Science and Technology (PNFE 2016)	International Conference on Recent Trends in Engineering, Science and Technology (PNFE 2016)	International	2016	pp 251-257 ,October 25-27 , 2016, St Peter's Engineering college, Dullapally, Hyderabad, Telangana, India October 2016,
7.	Dr.Kavita Thakur		Optimal Quantization Table Generation for Efficient Satellite Image Compression Using Teaching Learning Based Optimization Technique.Vikrant Singh Thakur, Shubhrata Gupta , Kavita Thakur	Big Data Analytics and Computational Intelligence (ICBDACI March 23-25, 2017),	2017 International Conference on Big Data Analytics and Computational Intelligence (ICBDACI March 23-25, 2017), pp 52-56	International	2017	IEEE Explore : 19th October 2017 , 978-1-5090-6399-4/17/\$31.00 c_2017 IEEE, INSPEC Accession Number : 17261513, DOI: 10.1109/ICBDACI.2017.807080
8.	Dr. Sanjay Tiwari	Handbook of Ecomaterials, published by Nature Springer.	Advances in polymer based photovoltaic cells: Review of pioneering Materials, Design and Device Physics			International	2017	Springer Nature, Cham, Print
9.	Dr. Sanjay Tiwari	Special Volume on "Recent Advances in Photovoltaic" under Materials Research Foundations	Quantum Dot as Light Harvester Nanocrystals for Solar Cell Applications			International	2017	Materials Research Forum LLC, Millersville, PA.

10.	Dr. Sanjay Tiwari	Special Volume on “Recent Advances in Photovoltaic” under Materials Research Foundations	Advancement in Simulation & Modeling of Organic Solar Cells			International	2017	Materials Research Forum LLC, Millersville, PA.
11.	Dr. Sanjay Tiwari	Special Volume on “Recent Advances in Photovoltaic” under Materials Research Foundations	Recent Advances in Polymer Solar Cells			International	2017	Materials Research Forum LLC, Millersville, PA.
12.	Dr. Sanjay Tiwari	Special Volume on “Recent Advances in Photovoltaic” under Materials Research Foundations	Fill factor analysis of organic solar cell			International	2017	Materials Research Forum LLC, Millersville, PA.
13.	Dr. Sanjay Tiwari	Special Volume on “Recent Advances in Photovoltaic” under Materials Research Foundatio	Efficiency rise in PCDTBT:PC70BM organic solar cell using interface additive			International	2017	Materials Research Forum LLC, Millersville, PA.
14.	Dr. Sanjay Tiwari	Special Volume on “Recent Advances in Photovoltaic” under Materials Research Foundatio	Status and Potential of Organic Solar Cells			International	2017	Materials Research Forum LLC, Millersville, PA.
15.	Dr. Sanjay Tiwari		Analytical study of current density-voltage relation in dye-sensitized solar cells using equivalent circuit model	International Conference on Energy, Communication, Data Analytics and Soft Computing, ICECDS 2017 ID 592 Aug		International	2017	IEEE

				2017				
16.	Dr. Sanjay Tiwari		Recent Advances & Perspectives in Electron Transport Layer of Organic Solar Cells for Efficient Solar Energy Harvesting,	International Conference on Energy, Communication, Data Analytics and Soft Computing ICECDS 2017 ID 615, Aug 2017		International	2017	IEEE
17.	Dr. Sanjay Tiwari		Solution Processed Solar Cells based on in-situ synthesis of CdSe Quantum Dots	International Conference on Energy, Communication, Data Analytics and Soft Computing, ICECDS 2017 ID 665, Aug 2017		International	2017	IEEE
18.	Dr.Kavita Thakur	Lecture Notes in Artificial Intelligence (LNAI) 10682	Book Chapter : High-Quality Medical Image Compression using Discrete Orthogonal Cosine Stockwell Transform and Optimal Integer Bit Allocated Quantization Vikrant Singh Thakur, Dr Kavita Thakur, Dr Shubhrata Gupta				2017	Springer International Publishing AG 2017, A. Ghosh et al. (Eds.)
19.	Dr.Kavita Thakur		High-Quality Medical Image Compression using Discrete Orthogonal Cosine Stockwell Transform	Mining Intelligence and Knowledge Exploration (MIKE 2017)	5th International Conference on Mining	International	2017	pp 100-110, Hyderabad, India, Springer publication,

			and Optimal Integer Bit Allocated Quantization, Vikrant Singh Thakur, Dr Kavita Thakur, Dr Shubhrata Gupta		Intelligence and Knowledge Exploration (MIKE 2017)			http://www.springer.com/series/1244
20.	Dr. Sanjay Tiwari	Electronics for you	Next Generation Solar Power Technology Part 1 & Part 2			National	2018	EFY Enterprises Pvt Ltd
21.	Dr. Sanjay Tiwari	Recent Advances in Thin Films Springer	Optical optimization of thin film polymer solar cells.			International	2020	Springer Nature,
22.	Dr. Kavita Thakur	Book-Advances in Biometrics- Modern Methods and Implementation strategies (Springer Book)	Chapter-Social Impact of Biometric Technology: Myth and Implications of Biometrics, Issues and Challenges, Authors : Dr Kavita Thakur and Dr Prafulla Vyas				2019	Springer Nature, Cham, Print
23.	Dr. Kavita Thakur		Determination of hormonal changes during a menstrual cycle in females using speech signal analysis, Kavita Thakur & Anjali Deshpande	National Symposium in Acoustics 2019 (NSA 2019)	47th National Symposium in Acoustics 2019 (NSA 2019)	National	2019	pp.77-82 ,organized by School of Physical Sciences, Ravenshaw University, Odisha and Acoustical Society of India (ASI) in Ravenshaw University, Odisha.
24.	Dr. Sanjay Tiwari	Hybrid Perovskite Composite Materials Design to Applications	Perovskite Solar Cells: A Review of Architecture, Processing methods and future prospects			International	2021	Woodhead Publishing Series in Composites Science and Engineering

								2021, Pages 375-412
25.	Dr. Sanjay Tiwari		Optical Optimization of Thin-film Polymer Solar Cells	International Conference on Thin Films (ICTF-17) in collaboration of Indian Vacuum Society		International	2020	IEEE
26.	Dr.Kavita Thakur	Advances in Modern Sensor-Physics, Design, Simulation and Application	Book Chapter- Classification and Characteristics of sensors				2020	IOP Science ,Bristol, UK
27.	Dr.Kavita Thakur	Advances in Biomedical Engineering and Technology ,Lecture Notes in Biomedical Engineering ,Editos: Bikesh Singh et al	Book Chapter: Comparative investigation of different classification techniques for Epilepsy Detection using EEG signals. Pp 413-423.Authors: Sunandan Mandal, ManvendraNath Thakur, Kavita Thakur, Bikesh Singh			International	2020	Springer Nature Singapore 2021