

**3.4.4 Details of books and chapters in edited volumes / books per teacher during the year (2023-24)**

<b>Sl. No.</b>	<b>Name of the Teacher</b>	<b>Title of the Book published</b>	<b>Title of the Chapter published</b>	<b>Title of the proceedings of the conference</b>	<b>Name of the conference</b>	<b>Natio- nal / Inter- nation- al</b>	<b>Year and month of publication</b>	<b>ISBN of the Book/Confe- rence Proceeding</b>	<b>Affiliating Institute of the teacher at the time of publication</b>	<b>Name of the Publisher</b>
<b>1</b>	P. Balakrishnan	SRR	Heat transfer Application of nanofluids: Current trends and future directions			Natio- nal	05-02-2024	ISBN 978- 819704204- 1	KIT- Kalaighnarkarunanidhi Institute of Technology	SRR
<b>2</b>	P. Balakrishnan	SRR	Market entry strategies for electric vehicles: An MBA Approach to penetrating the automobile industry			Intern- ation- al	01-03-2024	ISBN 978- 819649235- 9	KIT- Kalaighnarkarunanidhi Institute of Technology	SRR

3	B. Anand	Water Science and Technology Library	Catchment Discharge Modelling of a River Basin Using SWAT Model and Geospatial Techniques			International	11-05-2024		KIT-Kalaignarkarunanidhi Institute of Technology	Water Science and Technology Library
4	<b>MS.K.Saranya , Dr.C.Deepa</b>	Security and risk analysis for intelligent cloud computing	Prediction of Chronic Kidney Disease Using BIRCH Algorithm in Machine Learning				<b>2023</b>	9781003329947	KIT-Kalaignarkarunanidhi Institute of Technology	CRC Press
5	N. Vigneshwari		Development and Characterization of the Cyclodextrin Nanofibers				December 2023	9.781E+12	KIT-Kalaignarkarunanidhi Institute of Technology	Taylor & Francis

6	Dr.C.Sivamani	Blockchain Intelligent Systems Protocols, Application and Approaches for Future Generation Computing					January 2024	ISBN 9781032322209	KIT-Kalaignarkarunanidhi Institute of Technology	CRC Press
7	Dr.K.Umapathi	DIAGNOSTIC AND THERAPEUTIC EQUIPMENT - II					Mar-24	ISBN 978-93-6132-339-3	KIT-Kalaignarkarunanidhi Institute of Technology	Scientific Publishing
8	Dr.P.Gowtham	Fundamentals of Data Science and Python					February 2024	9.7882E+12	KIT-Kalaignarkarunanidhi Institute of Technology	RK Publications

9	B, Rajnivas			Time Series Analysis of Impact of Covid-19 Using Facebook Prophet Model and Review of the Machine-Learning Algorithm	2023 International Conference on Advanced & Global Engineering Challenges (AGEC)	International	28 November 2023	ISBN:979-8-3503-4097-6 Electronic ISBN:979-8-3503-4096-9	KIT- Kalaigharkarunanidhi Institute of Technology	IEEE
10	M Jayasheela			Non-Invasive Blood Parameters Detection for Healthcare Applications using IOT	2023 Third International Conference on Smart Technologies, Communication and Robotics (STCR), Sathyamangalam, India	International	22 January 2024	Electronic ISBN:979-8-3503-7086-7 Print on Demand(PoD) ISBN:979-8-3503-7087-4	KIT- Kalaigharkarunanidhi Institute of Technology	IEEE
11	Sivamani C			Intraocular Pressure Monitoring System for Glaucoma Patients Using IoT and Machine Learning	Engineering Proceeding	International	18 January 2024	EISSN 2673-4591	KIT- Kalaigharkarunanidhi Institute of Technology	MDPI

12	Harishma.S			Performance Analysis of Panoramic Dental X-Ray Images Using Discrete Wavelet Transform and Unbiased Risk Estimation	Computational Intelligence for Engineering and Management Applications: Select Proceedings of CIEMA 2022	International	<a href="#">30 April 2023</a>	978-981-19-8492-1	KIT-Kalaignarkarunanidhi Institute of Technology	Springer Nature Singapore
13	Jayakumar K			ECG Acquisition and HRV Analysis of Myocardial Infarction	IEEE Conference (2023 International Conference on Intelligent Technologies for Sustainable Electric and Communications Systems (iTech SECOM) )	International	21 Feb 2024	Electronic ISBN:979-8-3503-7118-5 Print on Demand(PoD) ISBN:979-8-3503-7119-2	KIT-Kalaignarkarunanidhi Institute of Technology	IEEE
14	Jayasheela M			Pre-Cardiac arrhythmia detection using Machine Learning	IEEE Conference (2023 International Conference on Intelligent Technologies for Sustainable Electric and	International	21 Feb 2024	Electronic ISBN:979-8-3503-7118-5 Print on Demand(PoD) ISBN:979-8-3503-7119-2	KIT-Kalaignarkarunanidhi Institute of Technology	IEEE

					Communications Systems (iTech SECOM) )					
15	Sivamani C			Myofascial cramp massager using Thermotherapy and cryotherapy	IEEE Conference (2023 International Conference on Intelligent Technologies for Sustainable Electric and Communications Systems (iTech SECOM) )	International	21 Feb 2024	Electronic ISBN:979-8-3503-7118-5 Print on Demand(PoD) ISBN:979-8-3503-7119-2	KIT-Kalaignarkarunanidhi Institute of Technology	IEEE
16	Sangeetha V			Advancing Early Detection Of Vitiligo Using A Non-Invasive Detection System	IEEE Conference (2023 International Conference on Intelligent Technologies for Sustainable Electric and Communications Systems	International	21 Feb 2024	Electronic ISBN:979-8-3503-7118-5 Print on Demand(PoD) ISBN:979-8-3503-7119-2	KIT-Kalaignarkarunanidhi Institute of Technology	IEEE

					(iTech SECOM) )					
17	Ravindrakumar S			Development of Non Invasive Blood Glucose Monitoring	IEEE Conference (2023 International Conference on Intelligent Technologies for Sustainable Electric and Communications Systems (iTech SECOM) )	International	21 Feb 2024	Electronic ISBN:979-8-3503-7118-5 Print on Demand(PoD) ISBN:979-8-3503-7119-2	KIT- Kalaigharkarunanidhi Institute of Technology	IEEE
18	Gowtham P			Designing and Development of Respiratory Ailment System for a Rapidly Deployable Emergency Ventilator	IEEE Conference (2023 International Conference on Intelligent Technologies for Sustainable Electric and Communications Systems	International	21 Feb 2024	Electronic ISBN:979-8-3503-7118-5 Print on Demand(PoD) ISBN:979-8-3503-7119-2	KIT- Kalaigharkarunanidhi Institute of Technology	IEEE

					(iTech SECOM) )					
<b>19</b>	Gowtham P			IoT-Based EEG Measurement Analysis using LoRa Technology	IEEE Conference (2023 International Conference on Intelligent Technologies for Sustainable Electric and Communicati ons Systems (iTech SECOM) )	<b>Inter natio nal</b>	21 Feb 2024	Electronic ISBN:979- 8-3503- 7118-5 Print on Demand(Po D) ISBN:979- 8-3503- 7119-2	KIT- Kalaigarkarunanidhi Institute of Technology	IEEE
<b>20</b>	Umapathi K			Implementati on of Wearable Technology for Real- Time Monitoring and Assessment of Neonatal Jaundice in Newborns	IEEE Conference (2023 International Conference on Intelligent Technologies for Sustainable Electric and Communicati ons Systems	<b>Inter natio nal</b>	21 Feb 2024	Electronic ISBN:979- 8-3503- 7118-5 Print on Demand(Po D) ISBN:979- 8-3503- 7119-2	KIT- Kalaigarkarunanidhi Institute of Technology	IEEE



					(iTech SECOM) )					
21	Umapathi K			An Innovative Non-Invasive Approach to Personalized Nutrition and Metabolism Monitoring Using Wearable Sensors	IEEE Conference (2023 International Conference on Intelligent Technologies for Sustainable Electric and Communicati ons Systems (iTech SECOM) )	<b>Inter national</b>	21 Feb 2024	Electronic ISBN:979- 8-3503- 7118-5 Print on Demand(Po D) ISBN:979- 8-3503- 7119-2	KIT- Kalaigarkarunanidhi Institute of Technology	IEEE
22	Mr.P.Mathivan an Mrs.D.Mohana priya	Technol ogical Advance ment in Internet of Medical Things and Blockch ain for Personal	Protecting the Privacy of IoT- Based Health Records Using Blockchain Technology	-	-	<b>Inter national</b>	02-01-2024	DOI: 10.1201/978 1003 405450-8 (ISBN 9781032521 541)	KIT- Kalaigarkarunanidhi Institute of Technology	Taylor and Francis group

		ized Healthca reApplic ations and Use Cases								
23	Dr. R. Gowrishankar		Efficient blurred deblurred image classificatio n using machine learning approach	Advancemen t of Data Processing Methods for Artificial and Computing Intelligence			26-04-2024	9.78103E+1 2	KIT- Kalaigharkarunanidhi Institute of Technology	River Publishers
24	V.Suresh	Analysis of sustaina ble groundw ater manage ment policies for urban develop ment	Environment al Quality Management				2023/8	<a href="https://doi.org/10.1002/tqem.22090">https://doi.org/10.1002/tqem.22090</a>	KIT- Kalaigharkarunanidhi Institute of Technology	SCOPUS

25	J.Maniraj, A Felix Sahayaraj, C.Ram Kumar	Machine Learning Techniques for the design and optimization of polymer composites: A review	E3S Web of Conferences				2023/9	<a href="https://doi.org/10.1051/e3sconf/202342802013">https://doi.org/10.1051/e3sconf/202342802013</a>	KIT-Kalaignarkarunanidhi Institute of Technology	SCOPUS
26	A Felix Sahayaraj, S.Dhamotharan, P.Ramachandran	Sustainable smart polymer composite materials: A comprehensive review	E3S Web of Conferences				2023/9	<a href="https://doi.org/10.1051/e3sconf/202342802014">https://doi.org/10.1051/e3sconf/202342802014</a>	KIT-Kalaignarkarunanidhi Institute of Technology	SCOPUS
27	A Felix Sahayaraj	Green syntheses of Silver/Iron (Ag/Fe) and copper/iron (Cu/Fe) nanoparticles for	Proceedings of the International Symposium on Lightweight and Sustainable Polymeric Materials				2023/10	<a href="https://doi.org/10.1007/978-981-99-5567-1_7">https://doi.org/10.1007/978-981-99-5567-1_7</a>	KIT-Kalaignarkarunanidhi Institute of Technology	SCOPUS

		Cytotoxic Investigation on Henrietta Lacks (HeLa) Cancer Cell								
28	Manickam Ramesh, Felix Sahayaraj Arockiasamy	Revolutionizing Biomedicine: A Comprehensive Review of Polymer Composite Materials	Engineering Proceedings				2024/1	<a href="https://doi.org/10.3390/engproc2024061017">https://doi.org/10.3390/engproc2024061017</a>	KIT-Kalaignarkarunanidhi Institute of Technology	SCOPUS
29	Manickam Ramesh, Felix Sahayaraj Arockiasamy	Powering the Future: A Comprehensive Review of Polymer Composite Energy Storage	Engineering Proceedings				2024/2	<a href="https://doi.org/10.3390/engproc2024061024">https://doi.org/10.3390/engproc2024061024</a>	KIT-Kalaignarkarunanidhi Institute of Technology	SCOPUS

		Applications								
30	A Felix Sahayaraj	Transforming Agricultural Waste into Sustainable Composite Materials: Mechanical Properties of Tamarindus Fruit Fiber (TFF)-Reinforced Polylactic Acid Composites	Engineering Proceedings				2024/4	<a href="https://doi.org/10.3390/engproc2024061032">https://doi.org/10.3390/engproc2024061032</a>	KIT-Kalaignarkarunanidhi Institute of Technology	SCOPUS

31	A Felix Sahayaraj	Fundamental Study on Influence of Independent Factors on Response Variable Using Response Surface Methodology and Taguchi Method	Engineering Proceedings				2024/2	<a href="https://doi.org/10.3390/engproc2024061037">https://doi.org/10.3390/engproc2024061037</a>	KIT-Kalaignarkarunanidhi Institute of Technology	SCOPUS
32	V.Suresh	Microstructure, Worn Surface, Wear Assessment and Taguchi's Approach of Titanium Alloy Hybrid Metal Matrix	SAE International				2023/10	<a href="https://doi.org/10.4271/2023-01-5103">https://doi.org/10.4271/2023-01-5103</a>	KIT-Kalaignarkarunanidhi Institute of Technology	SCOPUS

		Composites for Automotive Applications								
33	M Ramesh	Effect of Interfacial Bonding Characteristics on the Tensile Properties of Kenaf Fiber Reinforced Composites	Interfacial Bonding Characteristics in Natural Fiber Reinforced Polymer Composites: Fiber-matrix Interface In Biocomposites				2024/1	<a href="https://link.springer.com/chapter/10.1007/978-981-99-8327-8_5">https://link.springer.com/chapter/10.1007/978-981-99-8327-8_5</a>	KIT-Kalaignarkarunanidhi Institute of Technology	SCOPUS
34	M Ramesh	Recent studies on biocomposites and its impact toward enabling	Biocomposites—Bio-Based Fibers and Polymers From Renewable Resources				2024/1	<a href="https://www.sciencedirect.com/science/article/pii/B9780323972826000086">https://www.sciencedirect.com/science/article/pii/B9780323972826000086</a>	KIT-Kalaignarkarunanidhi Institute of Technology	SCOPUS

		technology								
35	M Ramesh	Introduction to Interfacial Bonding Characteristics of Natural Fiber-Reinforced Composites	Interfacial Bonding Characteristics in Natural Fiber Reinforced Polymer Composites				2024/1	<a href="https://link.springer.com/chapter/10.1007/978-981-99-8327-8_1">https://link.springer.com/chapter/10.1007/978-981-99-8327-8_1</a>	KIT-Kalaignarkarunanidhi Institute of Technology	SCOPUS
36	M Ramesh	Polymer-based self-healable materials for energy storage	Nanomaterials-Based Electrochemical Sensors : Properties, Applications and Recent Advances				2024/1	<a href="https://www.sciencedirect.com/science/article/pii/B9780128225127000168">https://www.sciencedirect.com/science/article/pii/B9780128225127000168</a>	KIT-Kalaignarkarunanidhi Institute of Technology	SCOPUS



37	M Ramesh	Analyte sensing by self-healing materials	Nanomaterials-Based Electrochemical Sensors : Properties, Applications and Recent Advances				2024/1	<a href="https://www.sciencedirect.com/science/article/pii/S0927026825127000156">https://www.sciencedirect.com/science/article/pii/S0927026825127000156</a>	KIT-Kalaignarkarunanidhi Institute of Technology	SCOPUS
38	M Ramesh	Characterization of the Metal-Organic Framework Nanofibers Prepared via Electrosinning	Electrospun Nanofibres: Materials, Methods, and Applications				2023/1	<a href="https://www.taylorfrancis.com/chapters/edit/10.1201/9781003333814-1/characterization-metal-organic-framework-nanofibers-prepared-via-electrospinning-ramesh-muthukrishnan">https://www.taylorfrancis.com/chapters/edit/10.1201/9781003333814-1/characterization-metal-organic-framework-nanofibers-prepared-via-electrospinning-ramesh-muthukrishnan</a>	KIT-Kalaignarkarunanidhi Institute of Technology	SCOPUS
39	M Ramesh	Development and Characterization of the Cyclodextrin	Electrospun Nanofibres: Materials, Methods, and Applications				2023/10	<a href="https://www.taylorfrancis.com/chapters/edit/10.1201/9781003333814-6/development-characterization">https://www.taylorfrancis.com/chapters/edit/10.1201/9781003333814-6/development-characterization</a>	KIT-Kalaignarkarunanidhi Institute of Technology	SCOPUS

		Nanofibers						<a href="#">tion-cyclodextrin-nanofibers-ramesh-vigneshwari</a>		
40	M. Ramesh	Wear performance of the biocomposites in automotive applications	Biocomposites for industrial applications: Construction, biomedical, transportation and food packaging				2023/10	<a href="https://www.sciencedirect.com/science/article/pii/S09780323918664000147">https://www.sciencedirect.com/science/article/pii/S09780323918664000147</a>	KIT-Kalaignarkarunanidhi Institute of Technology	SCOPUS
41	M Ramesh, A Felix Sahayaraj	Grass Fiber-Based Epoxy Composites	Epoxy-Based Biocomposites				2023/9	<a href="https://www.taylorfrancis.com/chapters/edit/10.1201/9781003271017-5/grass-fiber-based-epoxy-composites-ramesh-tamil-selvan-felix-sahayaraj">https://www.taylorfrancis.com/chapters/edit/10.1201/9781003271017-5/grass-fiber-based-epoxy-composites-ramesh-tamil-selvan-felix-sahayaraj</a>	KIT-Kalaignarkarunanidhi Institute of Technology	SCOPUS

42	M Ramesh	Frequency Bands Metamaterials	Electromagnetic Metamaterials: Properties and Applications				2023/9	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/9781394167074.ch7">https://onlinelibrary.wiley.com/doi/abs/10.1002/9781394167074.ch7</a>	KIT-Kalaignarkarunanidhi Institute of Technology	SCOPUS
43	J. Maniraj, M. Ramesh, A. Felix Sahayaraj	Introduction of Biochar: Sources, Composition, and Recent Updates	Biochar and its Composites				2023/9	<a href="https://link.springer.com/chapter/10.1007/978-981-99-5239-7_1">https://link.springer.com/chapter/10.1007/978-981-99-5239-7_1</a>	KIT-Kalaignarkarunanidhi Institute of Technology	SCOPUS
44	M Ramesh	Tribological Characterization of Biocomposites: An Overview	Tribological Properties, Performance and Applications of Biocomposites				2023/9	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/9783527838080.ch1">https://onlinelibrary.wiley.com/doi/abs/10.1002/9783527838080.ch1</a>	KIT-Kalaignarkarunanidhi Institute of Technology	SCOPUS

45	M Ramesh	Wear and Friction Behavior of Biocomposites Fabricated Through Additive Manufacturing	Tribological Properties, Performance and Applications of Biocomposites				2023/9	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/9783527838080.ch13">https://onlinelibrary.wiley.com/doi/abs/10.1002/9783527838080.ch13</a>	KIT-Kalaignarkarunanidhi Institute of Technology	SCOPUS
46	M. Ramesh	Jute Fibre-Reinforced Polyester Composites	Polyester-Based Biocomposites				2023/9	<a href="https://www.taylorfrancis.com/chapters/edit/10.1201/9781003270980-3/jute-fibre-reinforced-polyester-composites-ramesh-balaji-rajeshkumar">https://www.taylorfrancis.com/chapters/edit/10.1201/9781003270980-3/jute-fibre-reinforced-polyester-composites-ramesh-balaji-rajeshkumar</a>	KIT-Kalaignarkarunanidhi Institute of Technology	SCOPUS
47	M. Ramesh	Fatigue Behavior of Natural Fiber-Based Epoxy Composites	Epoxy-Based Biocomposites				2023/9	<a href="https://doi.org/10.1201/9781003271017">https://doi.org/10.1201/9781003271017</a>	KIT-Kalaignarkarunanidhi Institute of Technology	SCOPUS

48	M. Ramesh	Bast Fiber-Based Epoxy Composites	Epoxy-Based Biocomposites				2023/9	<a href="https://doi.org/10.1201/9781003271017">https://doi.org/10.1201/9781003271017</a>	KIT-Kalaignarkarunanidhi Institute of Technology	SCOPUS
49	M. Ramesh	Introduction to Natural Materials for Food Packaging	Natural Materials for Food Packaging Application				2023/9	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/9783527837304.ch1">https://onlinelibrary.wiley.com/doi/abs/10.1002/9783527837304.ch1</a>	KIT-Kalaignarkarunanidhi Institute of Technology	SCOPUS
50	M. Ramesh, P. Rama Chandran, P. Hariprasad, A. Arunkumar, C. Ram Kumar, R. Prem Kumar	An experimental investigation on the effect of lithium and alkali resistant glass fiber on aluminum AA5383 fabricated by the	Materials Today: Proceedings				2023/9	<a href="https://doi.org/10.1016/j.matpr.2023.05.152">https://doi.org/10.1016/j.matpr.2023.05.152</a>	KIT-Kalaignarkarunanidhi Institute of Technology	SCOPUS

		stir-casting process								
51	M. Ramesh, N. Vigneshwari	Cellulose nanocrystals for drug delivery applications	Green Sustainable Process for Chemical and Environmental Engineering and Science				2023/4	<a href="https://doi.org/10.1016/B978-0-323-95171-5.00012-1">https://doi.org/10.1016/B978-0-323-95171-5.00012-1</a>	KIT-Kalaignarkarunanidhi Institute of Technology	SCOPUS
52	A. Felix Sahayaraj	Tribological characterization and performance of biocomposites	Biocomposites-Bio-based Fibers and Polymers from Renewable Resources				2024/1	<a href="https://doi.org/10.1016/B978-0-323-97282-6.00016-5">https://doi.org/10.1016/B978-0-323-97282-6.00016-5</a>	KIT-Kalaignarkarunanidhi Institute of Technology	SCOPUS

53	J. Maniraj	Biologically Inspired SNN for Robot Control	Neuromorphic Computing Systems for Industry 4.0				2023/7	<a href="https://doi.org/10.4018/978-1-6684-6596-7.ch011">DOI: 10.4018/978-1-6684-6596-7.ch011</a>	KIT-Kalaignarkarunanidhi Institute of Technology	SCOPUS
54	Dr.E.Vijayakumar	Database Management System-Concepts and Architecture					Jul-23	978-81-962414-3-8	KIT-Kalaignarkarunanidhi Institute of Technology	AGPH Books
55	K.S Shanthini	Recent trends in Multi Disiplinary Research					Mar-24	978-1-304-55712-4	KIT-Kalaignarkarunanidhi Institute of Technology	Redshine Publications

56	K.S Shanthini		AN EFFICIENT FUZZY BASED ENHANCE D CLUSTERI NG ROUTING MECHANIS M FOR WIRELESS SENSOR NETWORK S				Mar-24	978-1-304- 55712-4	KIT- Kalaigarkarunanidhi Institute of Technology	infinity Publications
57	M.Umamahes wari	Educatio n In the Digital Age: Navigati ng Challen ges and Opportu nities					Feb-2024	978-1-304- 55711-7	KIT- Kalaigarkarunanidhi Institute of Technology	infinity Publications