

## Details of Research Publications

ACADEMIC YEAR 2020-2021

S.No	Author Name	Title of the Paper	Name of the Journal / Conference, Volume No, Issue No Month & Year	Indexing	Online Link of the paper
1.	Dr. Kumar Chinnaiyan V.	Helping Hand for Unsighted People - Acoustic sight	International Journal of Recent Technology and Engineering, Vol. 9, Issue 3 , Sep-2020	Scopus	<a href="https://www.ijrte.org/wp-content/uploads/papers/v9i3/C4584099320.pdf">https://www.ijrte.org/wp-content/uploads/papers/v9i3/C4584099320.pdf</a>
2.	Dr. Karpagam J.	Experimental Investigation on Mechanical Properties of Flax/Banana/Industrial Waste Tea Leaf Fiber Reinforced Hybrid Polymer Composites	Materials Today: Proceedings, Elsevier, Vol. 45, Issue 9, June 2021,	Scopus	<a href="https://www.sciencedirect.com/science/article/pii/S2214785321011731">https://www.sciencedirect.com/science/article/pii/S2214785321011731</a>
3.	Dr. Karpagam J.	IoT based Smart Farming	International Journal of Recent Technology and Engineering, Vol. 9, Issue 3, Sep 2020	Scopus	<a href="https://www.ijrte.org/wp-content/uploads/papers/v9i3/C4352099320.pdf">https://www.ijrte.org/wp-content/uploads/papers/v9i3/C4352099320.pdf</a>
4.	Dr. Karpagam J.	Dual Source Self Displaying Water Pumps	International Journal of Engineering and Advanced Technology, Vol. 10, Issue 1, Oct 2020	Scopus	<a href="https://www.ijeat.org/wp-content/uploads/papers/v10i1/F1632089620.pdf">https://www.ijeat.org/wp-content/uploads/papers/v10i1/F1632089620.pdf</a>
5.	Dr. Mohana Sundaram K.	ANN-based dynamic control and energy management of inverter and battery in a grid-tied hybrid renewable power system fed through switched Z-source converter	Electrical Engineering , Springer, Vol. 103, Feb 2021	SCI	<a href="https://sci-hub.hkvisa.net/10.3233/jifs-189163">https://sci-hub.hkvisa.net/10.3233/jifs-189163</a>
6.	Dr. Mohana Sundaram K.	A deep RNN and meta-heuristic feature selection	Materials Today: Proceedings, Vol.2021,	SCI	<a href="https://downloads.hindawi.com/journals/ijp/2021/55">https://downloads.hindawi.com/journals/ijp/2021/55</a>

		approach for IoT malware detection	Apr 2021		30213.pdf
7.	Dr. Mohana Sundaram K.	Convolutional Neural Network-based harmonic mitigation technique for an adaptive shunt active power filter	Journal for Control, Measurement, Electronics, Computing and Communications, Vol. 62, Sep 2021	SCI	<a href="https://www.tandfonline.com/doi/epub/10.1080/00051144.2021.1985703?needAccess=true">https://www.tandfonline.com/doi/epub/10.1080/00051144.2021.1985703?needAccess=true</a>
8.	Dr. Mohana Sundaram K.	Improved Carbon Nanotube Field Effect Transistor for Designing a Hearing Aid Filtering Application	Journal of nanomaterials, Vol.2021, Oct 2021	SCI	<a href="https://www.hindawi.com/journals/jnm/2021/7024032/">https://www.hindawi.com/journals/jnm/2021/7024032/</a>
9.	Dr. Mohana Sundaram K.	Recovery of Pure silicon and other materials from disposed solar cells	International Journal of Photoenergy, Vol.2021, Apr 2021	SCI	<a href="https://downloads.hindawi.com/journals/ijp/2021/5530213.pdf">https://downloads.hindawi.com/journals/ijp/2021/5530213.pdf</a>
10.	Dr. Uthirasamy R.	Extended Boost DC-DC-AC Converter for Electric Vehicle Applications	IOP Conference Series: Materials Science and Engineering, Vol.937 July 2020	Scopus	<a href="https://iopscience.iop.org/article/10.1088/1757-899X/937/1/012045">https://iopscience.iop.org/article/10.1088/1757-899X/937/1/012045</a>
11.	Dr. Uthirasamy R	Design and Development of Vehicle Breakdown Assistance System: i - Touch	Materials Today: Proceedings, Elsevier, Published online March 2021	Scopus	<a href="https://www.sciencedirect.com/science/article/pii/S2214785321008610">https://www.sciencedirect.com/science/article/pii/S2214785321008610</a>
12.	Dr. Chandrika V.S.	Performance Analysis of CHB and CSD Multilevel Inverter for PV and Fuel Cell Integration with Reduced THD	International Journal of Electrical Engineering and Technology, Vol. 11, Issue 9 Nov 2020	Scopus	<a href="http://iaeme.com/MasterAdmin/Journal_uploads/IJET/VOLUME_11_ISSUE_9/IJEET_11_09_004.pdf">http://iaeme.com/MasterAdmin/Journal_uploads/IJET/VOLUME_11_ISSUE_9/IJEET_11_09_004.pdf</a>
13.	Dr. Chandrika V.S.	Performance Assessment of Free Standing and Building Integrated Grid Connected Photovoltaic System for Southern Part of India	Building Services Engineering Research and Technology, SAGE Publishers, Vol. 42, Issue 2 , Dec 2020	SCI/WoS	<a href="https://journals.sagepub.com/doi/full/10.1177/0143624420977749">https://journals.sagepub.com/doi/full/10.1177/0143624420977749</a>

14.	Dr. Chandrika V.S.	Study on the Thermal Resistance Comparison on Al with SiO <sub>2</sub> Composites for Electronics Chips	Materials Today: Proceedings, Elsevier, Vol. 33, Issue 7, Dec 2020	Scopus	<a href="https://www.sciencedirect.com/science/article/pii/S2214785320314760">https://www.sciencedirect.com/science/article/pii/S2214785320314760</a>
15.	Dr. Chandrika V.S.	Multi-rate Sampling Wavelet Lifting Scheme Based Video Compression with Enhanced Adaptive Rood Search Integral Projections	Advances in Computing, Communication, Automation and Biomedical Technology, Volume-01, Issue-01 Dec-2020	Scopus	<a href="http://ijaict.com/Book%20Series/books/book2020/abstract/chapter52.html">http://ijaict.com/Book%20Series/books/book2020/abstract/chapter52.html</a>
16.	Dr. Chandrika V.S.	Experimental Analysis of Solar Concrete Collector for Residential Buildings	International Journal of Green Energy, Taylor & Francis, Vol. 18, Issue 6, Feb 2021	SCI/WoS	<a href="https://www.tandfonline.com/doi/abs/10.1080/15435075.2021.1875468">https://www.tandfonline.com/doi/abs/10.1080/15435075.2021.1875468</a>
17.	Dr. Chandrika V.S.	Performance Enhancements of Conventional Solar Still Using Reflective Aluminium Foil Sheet and Reflective Glass Mirrors: Energy and Exergy Analysis	Environmental Science and Pollution Research, Springer, Vol.28, Feb 2021	SCI/WoS	<a href="https://pubmed.ncbi.nlm.nih.gov/33629165/">https://pubmed.ncbi.nlm.nih.gov/33629165/</a>
18.	Dr. Chandrika V.S.	Design and Implementation of Smart GIL System	International Journal of Future Generation Communication and Networking, Vol. 13, Issue 4, Sep 2020	Wos/ESCI	<a href="http://serisc.org/journals/index.php/IJFGCN/article/view/32228">http://serisc.org/journals/index.php/IJFGCN/article/view/32228</a>
19.	Dr. Pandiyan P.	A Review of an Early Detection and Quantification of Osteoarthritis Severity in Knee using Machine Learning Techniques	IOP Conf. Series: Materials Science and Engineering, Vol. 105, 2021	Scopus	<a href="https://iopscience.iop.org/article/10.1088/1757-899X/1057/1/012095/pdf">https://iopscience.iop.org/article/10.1088/1757-899X/1057/1/012095/pdf</a>
20.	Dr. Pandiyan P.	Implementation of Different MPPT Techniques in Solar PV Tree under Partial Shading Conditions	Sustainability, Journal of MDPI, Vol.13, Issue 13, June 2021	Scopus	<a href="https://www.mdpi.com/2071-1050/13/13/7208">https://www.mdpi.com/2071-1050/13/13/7208</a>

21.	Dr. Karthick A.	Diagnosis of Cervical Cancer based on Ensemble Deep Learning Network using Colposcopy Images	BioMed Research International, Vol. 2021, 2021	SCI	<a href="https://www.scopus.com/inward/record.uri?eid=2-s2.0-85106376862&amp;doi=10.1155%2f2021%2f5584004&amp;partnerID=40&amp;md5=152cecd2039f57169ffb67f53ee741c">https://www.scopus.com/inward/record.uri?eid=2-s2.0-85106376862&amp;doi=10.1155%2f2021%2f5584004&amp;partnerID=40&amp;md5=152cecd2039f57169ffb67f53ee741c</a>
22.	Dr. Karthick A.	Short-Term Power Prediction of Building Integrated Photovoltaic (BIPV) System Based on Machine Learning Algorithms	International Journal of Photoenergy, Vol. 2021, 2021	Scopus	<a href="https://www.scopus.com/inward/record.uri?eid=2-s2.0-85105810566&amp;doi=10.1155%2f2021%2f5582418&amp;partnerID=40&amp;md5=c369b2a41127660a58861d458e61cd25">https://www.scopus.com/inward/record.uri?eid=2-s2.0-85105810566&amp;doi=10.1155%2f2021%2f5582418&amp;partnerID=40&amp;md5=c369b2a41127660a58861d458e61cd25</a>
23.	Dr. Karthick A.	State of charge estimation of lithium-ion battery for electric vehicles using machine learning algorithms	World Electric Vehicle Journal, Vol. 12, Issue 1, March 2021	Scopus	<a href="https://www.mdpi.com/2032-6653/12/1/38">https://www.mdpi.com/2032-6653/12/1/38</a>
24.	Dr. Karthick A.	Building integrated photovoltaic modules and the integration of phase change materials for equatorial applications	Building Services Engineering Research and Technology, Vol. 41, Issue 5 Jan 2020	SCI	<a href="https://journals.sagepub.com/doi/abs/10.1177/0143624419883363">https://journals.sagepub.com/doi/abs/10.1177/0143624419883363</a>
25.	Dr. Karthick A.	Investigation of inorganic phase change material for a semi-transparent photovoltaic (STPV) module	Energies, Vol.13, Issue 14 July 2020	SCI	<a href="https://www.mdpi.com/1996-1073/13/14/3582">https://www.mdpi.com/1996-1073/13/14/3582</a>
26.	Dr. Karthick A.	Performance enhancement of copper indium diselenide photovoltaic module using inorganic phase change	Asia Pacific Journal of Chemical Engineering, Vol.15, Issue 5 Sept 2020	SCI	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/apj.2480">https://onlinelibrary.wiley.com/doi/abs/10.1002/apj.2480</a>

		material			
27.	Dr. Karthick A.	Sustainable potable water production from conventional solar still during the winter season at Algerian dry areas: energy and exergy analysis	Journal of Thermal Analysis and Calorimetry, Vol. 145, Oct 2021	SCI	<a href="https://link.springer.com/article/10.1007/s10973-020-10277-x">https://link.springer.com/article/10.1007/s10973-020-10277-x</a>
28.	Dr. Karthick A.	A comprehensive MCDM-based approach using TOPSIS and EDAS as an auxiliary tool for pyrolysis material selection and its application	Biomass Conversion and Biorefinery, Vol 12, Sep 2020	SCI	<a href="https://link.springer.com/article/10.1007/s13399-020-01009-0">https://link.springer.com/article/10.1007/s13399-020-01009-0</a>
29.	Dr. Karthick A.	Enhancing the fresh water produced from inclined cover stepped absorber solar still using wick and energy storage materials	Environmental Science and Pollution Research, Vol. 28, Jan 2021	SCI	<a href="https://link.springer.com/article/10.1007/s11356-020-12030-1">https://link.springer.com/article/10.1007/s11356-020-12030-1</a>
30.	Dr. Karthick A.	Optimization of transformer oil blended with natural ester oils using Taguchi-based grey relational analysis	Fuel, Vol.288, 15 March 2021	SCI	<a href="https://www.sciencedirect.com/science/article/pii/S0016236120326259">https://www.sciencedirect.com/science/article/pii/S0016236120326259</a>
31.	Dr. Karthick A.	Performance and emission characteristics of diesel engine fueled with ternary blends of linseed and rubber seed oil biodiesel	Fuel, Vol.285, 1 February 2021	SCI	<a href="https://www.sciencedirect.com/science/article/pii/S0016236120322511">https://www.sciencedirect.com/science/article/pii/S0016236120322511</a>
32.	Dr. Karthick A.	Experimental investigation on cooling the photovoltaic panel using hybrid nanofluids	Applied Nanoscience, Vol.11, Nov 2020	SCI	<a href="https://link.springer.com/article/10.1007/s13204-020-01598-2">https://link.springer.com/article/10.1007/s13204-020-01598-2</a>
33.	Dr. Karthick A.	Performance enhancement of photovoltaic module by integrating eutectic inorganic	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, Sep	SCI	<a href="https://www.tandfonline.com/doi/abs/10.1080/15567036.2020.1817185">https://www.tandfonline.com/doi/abs/10.1080/15567036.2020.1817185</a>

		phase change material	2020		
34.	Dr. Karthick A.	Phosphate bags as energy storage materials for enhancement of solar still performance	Environmental Science and Pollution Research, Vol. 28, Issue 17, May 2021	SCI	<a href="https://scopus.com/record/display.uri?eid=2-s2.0-85099070875&amp;origin=resultslist&amp;sort=plf-f">scopus.com/record/display.uri?eid=2-s2.0-85099070875&amp;origin=resultslist&amp;sort=plf-f</a>
35.	Dr. Karthick A.	Review on progress in concrete solar water collectors	Environmental Science and Pollution Research, Vol. 28, March 2021	SCI	<a href="https://link.springer.com/article/10.1007/s11356-021-13415-6">https://link.springer.com/article/10.1007/s11356-021-13415-6</a>
36.	Dr. Karthick A.	Investigations on an evacuated tube solar water heater using hybrid-nano based organic phase change material	International Journal of Green Energy, Vol.17, Issue 13, Aug 2020	SCI	<a href="https://www.tandfonline.com/doi/abs/10.1080/15435075.2020.1809426">https://www.tandfonline.com/doi/abs/10.1080/15435075.2020.1809426</a>
37.	Dr. Karthick A.	Characterization of Hybrid-nano/Paraffin Organic Phase Change Material for Thermal Energy Storage Applications in Solar Thermal Systems	Energies, Vol.13, Issue 19, Sep 2020	SCI	<a href="https://www.mdpi.com/1996-1073/13/19/5079">https://www.mdpi.com/1996-1073/13/19/5079</a>
38.	Mr. Vivekanandan S.	Crash Detection and Rescue System for Vehicles	International Journal of Future Generation Communication and Networking, Vol. 13, Issue 4, Sep 2020	Wos/ESCI	<a href="http://sersc.org/journals/index.php/IJFGCN/article/view/32229">http://sersc.org/journals/index.php/IJFGCN/article/view/32229</a>
39.	Mr. Saravanan G.	Investigation of Controller Design for EV System with Manta Ray Foraging Optimization Approaches	Solid State Technology, Volume-63, Issue-6, Nov-2020	Scopus	<a href="http://solidstatetechnology.us/index.php/JSST/article/view/5626">http://solidstatetechnology.us/index.php/JSST/article/view/5626</a>
40.	Mr. Saravanan G.	IoT Materials Enabled Indoor Light Illumination Monitoring System	Materials Today: Proceedings, Elsevier Vol.45, , Issue 7 Dec 2020	Scopus	<a href="https://www.sciencedirect.com/science/article/pii/S2214785320383280">https://www.sciencedirect.com/science/article/pii/S2214785320383280</a>
41.	Mr. Saravanan G.	A Review Paper on Wireless Sensor Network Techniques	Materials Today: Proceedings, Elsevier,	Scopus	<a href="https://www.sciencedirect.com/science/article/pii/S">https://www.sciencedirect.com/science/article/pii/S</a>

		in Internet of Things	Vol.51, Issue 1, May 2021		2214785321036439
42.	Dr. Pazhanimuthu C.	An improved control Algorithm for Series Hybrid Active Power Filter based on SOGI-PLL under Dynamic Load Conditions	Solid State Communications, Vol. 333, July 2021,	SCI/WoS	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0038109821001605">https://www.sciencedirect.com/science/article/abs/pii/S0038109821001605</a>
43.	Dr. Baranilingesan I.	Novel Multi-Time Scale Deep Learning Algorithm for Solar Irradiance Forecasting	Energies, MDPI, Vol. 14, Issue 9, April 2021	SCI/WoS	<a href="https://www.mdpi.com/1996-1073/14/9/2404">https://www.mdpi.com/1996-1073/14/9/2404</a>
44.	Dr. Baranilingesan I.	Optimization Algorithm-Based Elman Neural Network Controller for Continuous Stirred Tank Reactor Process Model	Current Science, Vol. 120, Issue 8, April 2021	SCI/WoS	<a href="https://www.currentscience.ac.in/Volumes/120/08/1324.pdf">https://www.currentscience.ac.in/Volumes/120/08/1324.pdf</a>
45.	Dr. Baranilingesan I.	Automatic Switching of Three Phase Induction Motor during Fault Condition	International Journal of Engineering and Advanced Technology , Vol. 9, Issue 6, Aug 2020	Scopus	<a href="https://www.ijeat.org/wp-content/uploads/papers/v9i6/F1580089620.pdf">https://www.ijeat.org/wp-content/uploads/papers/v9i6/F1580089620.pdf</a>
46.	Ms. Lalitha B.	Harmonic Analysis of Reduced Device Count Multilevel Converter	Advances in Mathematics: Scientific Journal, Vol.9, Issue 10, Sep 2020	Scopus	<a href="https://research-publication.com/wp-content/uploads/2020/vol-9-n10/AMSJ-2020-N10-47.pdf">https://research-publication.com/wp-content/uploads/2020/vol-9-n10/AMSJ-2020-N10-47.pdf</a>
47.	Ms. Vijayalakshmi V.J.	Modeling, Simulation and Design of Luo Converter for DC Micro Grid Application	Fourth International Conference on I-SMAC IEEE Xplore, Nov 2020,	Scopus	<a href="https://ieeexplore.ieee.org/document/9243564">https://ieeexplore.ieee.org/document/9243564</a>
48.	Ms. Vijayalakshmi V.J.	Cloud Based Attendance Monitoring	International Journal of Engineering and Advanced Technology, Vol.9, Issue 6, Aug 2020	Scopus	<a href="https://www.ijeat.org/wp-content/uploads/papers/v9i6/F1518089620.pdf">https://www.ijeat.org/wp-content/uploads/papers/v9i6/F1518089620.pdf</a>

49.	Ms. Vijayalakshmi V.J.	Pattern Recognition through Dip for Wind Turbine	International Journal of Engineering and Advanced Technology, Vol. 9, Issue 6 Aug 2020	Scopus	<a href="https://www.ijeat.org/wp-content/uploads/papers/v9i6/F1538089620.pdf">https://www.ijeat.org/wp-content/uploads/papers/v9i6/F1538089620.pdf</a>
50.	Ms. Vijayalakshmi V.J.	Mitigation of Harmonics in Power Network with Real Time Data Based on Etap	International Journal of Scientific and Technology Research, Vol. 9, Issue 10, Oct 2020	Scopus	<a href="https://www.ijstr.org/final-print/oct2020/Mitigation-Of-Harmonics-In-Power-Network-With-Real-Time-Data-Based-On-Etap.pdf">https://www.ijstr.org/final-print/oct2020/Mitigation-Of-Harmonics-In-Power-Network-With-Real-Time-Data-Based-On-Etap.pdf</a>
51.	Ms. Revathi R.	Hybrid DPSO based MPPT Control of High Static Gain Converter in Photovoltaic System for DC Microgrid Applications	IOP Conference Series: Materials Science and Engineering, Vol. 1 Oct 2020	Scopus	<a href="https://iopscience.iop.org/article/10.1088/1757-899X/937/1/012010">https://iopscience.iop.org/article/10.1088/1757-899X/937/1/012010</a>
52.	Ms. Revathi R.	A Review of Demand Response Opportunities and Challenges for Residential Applications in Smart Grid	International Journal of Future Generation Communication and Networking, Vol. 13 No. 4 Nov 2020	Wos/ ESCI	<a href="http://serisc.org/journals/index.php/IJFGCN/article/view/33372">http://serisc.org/journals/index.php/IJFGCN/article/view/33372</a>
53.	Mr. Ravikumar P.	Solar Powered Unmanned Cleaning Robot	International Journal of Engineering and Advanced Technology, Vol. 9, Issue 6, Aug 2020	Scopus	<a href="https://www.ijeat.org/wp-content/uploads/papers/v9i6/F1539089620.pdf">https://www.ijeat.org/wp-content/uploads/papers/v9i6/F1539089620.pdf</a>
54.	Mr. Ravikumar P.	Solar Powered Low Voltage Pump Display	International Journal of Engineering and Advanced Technology, Vol. 9, Issue 6, Aug 2020	Scopus	<a href="https://www.ijeat.org/wp-content/uploads/papers/v9i6/F1616089620.pdf">https://www.ijeat.org/wp-content/uploads/papers/v9i6/F1616089620.pdf</a>
55.	Mr. Kamalkumar V.	Voice Controlled Fire Fighting Robot	International Journal of Recent Technology and Engineering, Vol. 9, Issue 3, Sep 2020	Scopus	<a href="https://www.ijrte.org/wp-content/uploads/papers/v9i3/C4407099320.pdf">https://www.ijrte.org/wp-content/uploads/papers/v9i3/C4407099320.pdf</a>
56.	Mr. Kamalkumar V.	IoT based Underground	International Journal of	Scopus	<a href="https://www.ijrte.org/wp-">https://www.ijrte.org/wp-</a>



		Drainage Monitoring System	Recent Technology and Engineering, Vol. 9, Issue 3, Sep 2020		content/uploads/papers/v9i3/C4354099320.pdf
57.	Ms. Praveena P.	Hybrid Electric Charging Station using Raspberry Pi	International Journal of Engineering and Advanced Technology, Vol.10, Issue 1, Oct 2020	Scopus	<a href="https://www.ijeat.org/wp-content/uploads/papers/v10i1/A16441010120.pdf">https://www.ijeat.org/wp-content/uploads/papers/v10i1/A16441010120.pdf</a>
58.	Mr. Dinesh C.	Experimental Investigation Regarding Emissivity of Black Nickel Coated on Aluminum Surface	Materials Today: Proceedings, Elsevier, Vol.33, Issue 7, Aug 2020	Scopus	<a href="https://www.sciencedirect.com/science/article/pii/S2214785320337056">https://www.sciencedirect.com/science/article/pii/S2214785320337056</a>