

SI No	Authors	Title	Journal Name	Volume	page number	Date of Publication	IF	DOI	ISSN	SCI/SCIE/ SCOPUS	Journal (Open Access/ Regular)	Publisher	Link of webpage
1	Subham Kumar Jalan1B. Chitti Babu1Nirav Patel2Ajay Kumar2Nitin Gupta	A novel active current co-efficient extraction-based control for grid-tied solar photovoltaic system	IET Power Electronics	14	2099 - 2114	06-09-2021	2	<a href="https://doi.org/10.1049/pel2.12108">https://doi.org/10.1049/pel2.12108</a>	1755-4543	SCIE	Open access	IET	<a href="https://ietresearch.onlinelibrary.wiley.com/doi/pdf/10.1049/pel2.12108">https://ietresearch.onlinelibrary.wiley.com/doi/pdf/10.1049/pel2.12108</a>
2	Ajay Kumar; Nirav Patel; Nitin Gupta; Vikas Gupta	L2 Norm Enabled Adaptive LMS Control for Grid-Connected Photovoltaic Converters	IEEE Transactions on Industry Applications	58	5328 - 5339	26-04-2022	4.4	<a href="https://doi.org/10.1109/TIA.2022.3170292">https://doi.org/10.1109/TIA.2022.3170292</a>	1939-9367	SCIE	Regular	IEEE	<a href="https://ieeexplore.ieee.org/abstract/document/9763402">https://ieeexplore.ieee.org/abstract/document/9763402</a>
3	Ajay Kumar a, Nirav Patel b, Nitin Gupta, Vikas Gupta	Design, analysis and implementation of electronically interfaced photovoltaic system using ARM Cortex-M4 microcontroller	COMPUTER S & ELECTRICAL ENGINEERING	98	107701	01-03-2023	4.3	<a href="https://doi.org/10.1016/j.compeleceng.2022.107701">https://doi.org/10.1016/j.compeleceng.2022.107701</a>	0045-7906	SCIE	Regular	Elsevier	<a href="https://www.sciencedirect.com/science/article/pii/S0045790622000209">https://www.sciencedirect.com/science/article/pii/S0045790622000209</a>

4	Bhargav Appasani, Amitkumar V. Jha , Kunjabihari Swain , Murthy Cherukuri and Dushmantha Kumar Mohanta	Resiliency Estimation of Synchrophasor Communication Networks in a Wide Area Measurement System.	Frontiers in Energy Research	10	online	04 April 2022.	3.4	<a href="https://doi.org/10.3389/fenrg.2022.854676">https://doi.org/10.3389/fenrg.2022.854676</a>	2296-598X	SCIE	Open access	Frontiers	<a href="https://www.frontiersin.org/articles/10.3389/fenrg.2022.854676/full">https://www.frontiersin.org/articles/10.3389/fenrg.2022.854676/full</a>
5	Anant Milan Khalkho , Bhargav Rapada , Gourab Majumder, Murthy Cherukuri and Dushmantha Kumar Mohanta	Impact Assessment of Solar Power Generation Uncertainty on Smart Grid Reliability and Carbon Neutrality	Frontiers in Energy Research	10	online	14-03-2022	3.4	<a href="https://doi.org/10.3389/fenrg.2022.851449">https://doi.org/10.3389/fenrg.2022.851449</a>	2296-598X	SCIE	Open access	Frontiers	<a href="https://www.frontiersin.org/articles/10.3389/fenrg.2022.851449/full#:~:text=Solar%20energy%20generation%20pays%20a,more%20reliable%20and%20smarter%20grid.">https://www.frontiersin.org/articles/10.3389/fenrg.2022.851449/full#:~:text=Solar%20energy%20generation%20pays%20a,more%20reliable%20and%20smarter%20grid.</a>
6	Prasanta Kumar Jena , Subhojit Ghosh , Ebha Koley , Dushmantha Kumar Mohanta, Innocent Kamwa	Design of AC state estimation based cyber-physical attack for disrupting electricity market operation under limited sensor information.	Electrical Power System Research	205	107732	01-04-2022	3.9	<a href="https://doi.org/10.1016/j.epsr.2021.107732">https://doi.org/10.1016/j.epsr.2021.107732</a>	0378-7796	SCIE	Open access	Elsevier	<a href="https://www.sciencedirect.com/science/article/pii/S0378779621007136">https://www.sciencedirect.com/science/article/pii/S0378779621007136</a>
7	Anant Milan Khalkho , Dushmantha Kumar Mohanta	RBFNN assisted transient instability-based risk assessment of cyber-physical power	Electrical Power & Energy Systems	137	107787	01-05-2022	3.9	<a href="https://doi.org/10.1016/j.ijepes.2021.107787">https://doi.org/10.1016/j.ijepes.2021.107787</a>	0142-0615	SCIE	Open access	Elsevier	<a href="https://www.sciencedirect.com/science/article/pii/S0142061521010073">https://www.sciencedirect.com/science/article/pii/S0142061521010073</a>

8	Shankarshan Prasad Tiwari, Ebha Koley, Murli Manohar, Subhojit Ghosh, Dusmanta Kumar Mohanta, Ramesh C. Bansal	Enhancing Robustness of DC Microgrid Protection during Weather Intermittency and Source Outage for Improved Resilience and System Integrity.	International Transactions on Electrical Energy System	31	online	28-12-2021	2.3	<a href="https://doi.org/10.1002/2050-7038.13243">https://doi.org/10.1002/2050-7038.13243</a>	2050-7038	SCIE	Regular	Wiley	<a href="https://onlinelibrary.wiley.com/doi/10.1002/20507038.202113112">https://onlinelibrary.wiley.com/doi/10.1002/20507038.202113112</a>
9	Sumit Kumar Jha, Deepak Kumar, M. Lehtonen	Modified V-I droop based vector control scheme for demand side management in a stand-alone microgrid	International Journal of Electrical Power & Energy Systems	130	106950	01-09-2021	5.2	<a href="https://doi.org/10.1016/j.ijepes.2021.106950">10.1016/j.ijepes.2021.106950</a>	0142-0615	SCIE	Regular	Elsevier	<a href="https://www.sciencedirect.com/journal/international-journal-of-electrical-power-and-energy-systems/vol/130/suppl/C">https://www.sciencedirect.com/journal/international-journal-of-electrical-power-and-energy-systems/vol/130/suppl/C</a>
10	Sourav Chakraborty, Panneru Arvind & Deepak Kumar	Coordinated Control for Frequency Regulation in a Stand-Alone Microgrid Bolstering Demand Side Management Capability	Electric Power Components and Systems	49	1-17	05-07-2021	1.5	<a href="https://doi.org/10.1080/15325008.2021.1937391">10.1080/15325008.2021.1937391</a>	1532-5016	SCIE	Regular	Taylor & Francis Online	<a href="https://www.tandfonline.com/doi/10.1080/15325008.2021.1937391">https://www.tandfonline.com/doi/10.1080/15325008.2021.1937391</a>
11	Abdullah Umar, Deepak Kumar, Tirthadip Ghose	Blockchain-based decentralized energy intra-trading with battery storage flexibility in a community microgrid system	Applied Energy	322	119544	15-09-2022	11.2	<a href="https://doi.org/10.1016/j.apenergy.2022.119544">10.1016/j.apenergy.2022.119544</a>	0142-0615	SCIE	Regular	Elsevier	<a href="https://www.sciencedirect.com/journal/applied-energy/vol/322/suppl/C">https://www.sciencedirect.com/journal/applied-energy/vol/322/suppl/C</a>

12	Abhinandan Kumar, Tirthadip Ghose	A Newton-Raphson-based unified load flow of grid-connected and islanded AC-DC microgrids	International Transactions on Electrical Energy Systems	31	e13075	01-11-2021	2.64	<a href="https://doi.org/10.1002/2050-7038.13075">https://doi.org/10.1002/2050-7038.13075</a>	2050-7038	SCIE	Regular	Wiley	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/2050-7038.13075">https://onlinelibrary.wiley.com/doi/abs/10.1002/2050-7038.13075</a>
13	Sonal, Debomita Ghosh	Novel Trends in Resilience Assessment of a Distribution System using Synchrophasor Application: A Literature Review	<i>International Transaction on Electrical Energy Systems,</i>	31	1-38	01-08-2021	2.64	<a href="https://doi.org/10.1002/2050-7038.12934">10.1002/2050-7038.12934</a>	2050-7038	SCIE	Open access	Wiley	<a href="https://onlinelibrary.wiley.com/doi/full/10.1002/2050-7038.12934">https://onlinelibrary.wiley.com/doi/full/10.1002/2050-7038.12934</a>
14	Sourav Kumar Sahu, Debomita Ghosh	Operational Hosting Capacity Based Sustainable Energy Management and Enhancement	<i>International Journal of Energy Research</i>	46	2418-2437	01-03-2021	4.67	<a href="https://doi.org/10.1002/er.7317">https://doi.org/10.1002/er.7317</a>	1099-114X	SCIE	Regular	Wiley	<a href="https://onlinelibrary.wiley.com/doi/10.1002/er.7317">https://onlinelibrary.wiley.com/doi/10.1002/er.7317</a>
15	Rajesh Saikrishna, Nilesh Kumar Rajalwal, Debomita Ghosh	Adaptive relay co-ordination using a busbar splitting approach for a system integrity protection scheme	<i>Protection and control of modern power systems,</i> Springer	7	1-12	01-04-2022	10.5	<a href="https://doi.org/10.1186/s41601-022-00235-0">https://doi.org/10.1186/s41601-022-00235-0</a>		SCIE	Open access	Springer,	<a href="https://pcmp.springeropen.com/articles/10.1186/s41601-022-00235-0">https://pcmp.springeropen.com/articles/10.1186/s41601-022-00235-0</a>

16	Sonal, Debomita Ghosh	Hybrid Data-driven Resilience Assessment and Enhancement of Distribution System for Cyclone Susceptible Zones	<i>Scientific Reports, Nature</i>	12	1-18	01-06-2022	5	<a href="https://doi.org/10.1038/s41598-022-13311-0">https://doi.org/10.1038/s41598-022-13311-0</a>	2045-2322	SCIE	Open access	Nature	<a href="https://www.nature.com/articles/s41598-022-13311-0">https://www.nature.com/articles/s41598-022-13311-0</a>
17	Gauri Shanker Gupta, Prabhat Ranjan Tripathi, Shikhar Kumar, Subhojit Ghosh, Rakesh Kumar Sinha	Prototype design for bidirectional control of stepper motor using features of brain signals and soft computing tools	Biomedical Signal Processing and Control	71	103245	25-10-2021	5.1	<a href="https://doi.org/10.1016/j.bspc.2021.103245">https://doi.org/10.1016/j.bspc.2021.103245</a>	1746-8108	SCIE	Regular	Elsevier	Prototype design for bidirectional control of stepper motor using features of brain signals and soft computing tools - ScienceDirect
18	Niteesha Kumari, S. Shiva Kumar, V. Laxmi	Design of an efficient bipolar converter with fast MPPT algorithm for DC nanogrid application	International Journal of Circuit Theory and Applications	49	2812-2839	03-05-2021	2.3	<a href="https://doi.org/10.1002/cta.3020">https://doi.org/10.1002/cta.3020</a>	1097-007X	SCIE	Regular	John Wiley & Sons Ltd	<a href="https://onlinelibrary.wiley.com/journal/1097007x">https://onlinelibrary.wiley.com/journal/1097007x</a>

19	Soumya Chatterjee , Member, IEEE, Sayanjit Singha Roy , Arpan Chatterjee , Biswarup Ganguly , Member, IEEE, and Subho Paul , Member, IEEE	Recognition of Hydrophobicity Class of Polymeric Insulators Employing Residual Morphological Neural Network and Granulometry-Based Image Analysis	IEEE Transactions on Instrumentation and Measurement	71	1-9	01-04-2022	5.6	10.1109/TI M.2022.3164156	1557-9662	SCIE	regular	IEEE	<a href="https://ieeexplore.ieee.org/document/9745943">https://ieeexplore.ieee.org/document/9745943</a>
20	Nasirul Haque , Member, IEEE, Aadil Jamshed, Kingshuk Chatterjee , Graduate Student Member, IEEE, and Soumya Chatterjee , Member, IEEE	Accurate Sensing of Power Transformer Faults From Dissolved Gas Data Using Random Forest Classifier Aided by Data Clustering Method	IEEE Sensors Journal	22	5902 - 5910	07-02-2022	4.3	10.1109/JS EN.2022.3149409	1558-1748	SCIE	regular	IEEE	<a href="https://ieeexplore.ieee.org/document/9705290">https://ieeexplore.ieee.org/document/9705290</a>
21	Soumyadeep Chowdhury , Nasirul Haque , Member, Soumya Chatterjee , Member, Arpan Kumar Pradhan , and Sivaji Chakravorti	Temperature Compensation of Frequency Domain Spectroscopy Measurement for Condition Assessment of Oil-Paper Insulation	IEEE Transactions on Dielectrics and Electrical Insulation	29	255 - 263	01-02-2022	3.1	10.1109/TD EI.2022.3148483	1558-4135	SCIE	regular	IEEE	<a href="https://ieeexplore.ieee.org/document/9701343">https://ieeexplore.ieee.org/document/9701343</a>

22	Kaniska Samanta, Soumya Chatterjee, Rohit Bose	Neuromuscular disease detection based on feature extraction from time–frequency images of EMG signals employing robust hyperbolic Stockwell transform	International Journal of Imaging Systems and Technology	32	1251-1262	25-01-2022	3.3	<a href="https://doi.org/10.1002/ima.22709">https://doi.org/10.1002/ima.22709</a>	1098-1098	SCIE	open access	WILEY	<a href="https://onlinelibrary.wiley.com/doi/full/10.1002/ima.22709">https://onlinelibrary.wiley.com/doi/full/10.1002/ima.22709</a>
23	Arup Kumar Das; Soumya Chatterjee; Biswendu Chatterjee; Sovan Dalai	Cross Spectrum Aided Surface Condition Assessment of Metal Oxide Surge Arrester Employing Convolutional Neural Network	IEEE Transactions on Dielectrics and Electrical Insulation	28	2134 - 2143	01-12-2021	3.1	10.1109/TDEI.2021.009747	1558-4135	SCIE	regular	IEEE	<a href="https://ieeexplore.ieee.org/document/9679729">https://ieeexplore.ieee.org/document/9679729</a>
24	Sudip Modak , Sayanjit Singha Roy , Rohit Bose , Graduate Student Member, IEEE, and Soumya Chatterjee	Focal Epileptic Area Recognition Employing Cross EEG Rhythm Spectrum Images and Convolutional Neural Network	IEEE Sensors Journal	21	23335 - 23343	10-09-2021	4.3	10.1109/JSSEN.2021.3111102	1558-1748	SCIE	regular	IEEE	<a href="https://ieeexplore.ieee.org/document/9535119">https://ieeexplore.ieee.org/document/9535119</a>

25	Mishra, A., Sahu, S.S., Sharma, R. and Mishra, S.K.	Denoising of Electrocardiogram Signal Using S-Transform Based Time-Frequency Filtering Approach,	"Arabian Journal for Science and Engineering, Springer,	46	9515- 9525	Oct. 2021.	2.33	DOI: 10.1007/s1 3369-021- 05333-z	2191- 4281	SCIE	Regular	Springer,	DOI: 10.1007/s13369- 021-05333-z,
26	Kumar, Manish, Sudhansu Kumar Mishra, Dilip Kumar Choubey, Sunil Kumar Jangir, and Dinesh Goyal	Multichannel heuristic learning based single layer neural network filter for mixed noise suppression from color Doppler ultrasound images,	Journal of Real-Time Image Processing,	18	1-12	Aug. 2021.	2.36	DOI: 10.1007/s1 1554-020- 01061-z	0899- 9457	SCIE	Regular	WILEY	DOI: 10.1007/s11554- 020-01061-z,
27	Prabhat Ranjan Tripathi, Vijaya Laxmi, Ritesh Kumar Keshri, Amitkumar Vidyakant Jha, Bhargav Appasani, Nicu Bizon and Phatiphat Thounthong	A Three-Phase Resonant Boost Inverter Fed Brushless DC Motor Drive for Electric Vehicles	Electronics 2021	10	1799	27-07-2021	2.9	doi:10.3390/ electronics1 0151799	2079- 9292	SCIE	Open Access	MDPI	<a href="https://www.mdpi.com/2079-9292/10/15/1799">https://www.mdpi.com/2079-9292/10/15/1799</a>



28	Prabhat R. Tripathi, V. Laxmi, Ritesh K. Keshri, Bhargav Appasani and Taha Selim Ustun	A Novel Fundamental Frequency Switching Operation for Conventional VSI to Enable Single-Stage High-Gain Boost Inversion with ANN Tuned QWS Controller	Electronics 2021	10	2499	14-10-2021	2.9	<a href="https://doi.org/10.3390/electronics10202499">https://doi.org/10.3390/electronics10202499</a>	2079-9292	SCIE	Open Access	MDPI	<a href="https://www.mdpi.com/2079-9292/10/20/2499">https://www.mdpi.com/2079-9292/10/20/2499</a>
29	Shubham Kumar Singh, Chetan S. Matwankar, Manan Jee & Aftab Alam	MRAS-based current estimator for DC–DC converters considering time-variant load impedance	Journal of Power Electronics	22	210-221	21-12-2021	1.4	<a href="https://doi.org/10.1007/s43236-021-00353-2">https://doi.org/10.1007/s43236-021-00353-2</a>	2093-4718	SCIE	Regular	Springer	<a href="https://link.springer.com/article/10.1007/s43236-021-00353-2">https://link.springer.com/article/10.1007/s43236-021-00353-2</a>
	Shilpee Kumar & Sarbani Chakraborty (2022)	Uncertainty and disturbance-observer based robust attitude control for satellites	International Journal of Control	96	1245-1260	24-02-2022	2.1	<a href="https://doi.org/10.1080/00207179.2022.2038390">10.1080/00207179.2022.2038390</a>	1366-5820	SCIE	Regular	Taylor & Francis Online	<a href="https://www.tandfonline.com/doi/full/10.1080/00207179.2022.2038390">https://www.tandfonline.com/doi/full/10.1080/00207179.2022.2038390</a>

30	Arunjeet Chakraborty, Joyjeet Ghose, Sarbani Chakraborty & Biswajit Chakraborty	Vision-based detection system of slag flow from ladle to tundish with the help of the detection of undulation of slag layer of the tundish using an image analysis technique	Ironmaking & Steelmaking	49	10-15	17-08-2021	2.1	10.1080/03019233.2021.1959872	1743-2812	SCIE	Regular	SAGE PUBLICATIONS	<a href="https://www.tandfonline.com/doi/full/10.1080/03019233.2021.1959872">https://www.tandfonline.com/doi/full/10.1080/03019233.2021.1959872</a>
31	Prem Prakash and R C Jha	Confidence Interval-A statistical Approach for DER Integration in Distribution System to Enhance Energy Harvesting	Turkish Online Journal of Qualitative Inquiry	12	2174-2186	01-07-2021			1309-6591	SCOPUS	Open Access	Non-paid	TOJQI