List of the Journal papers and book chapters

Year wise Status of Journal papers/Book chapters Published

Year	Q1	Q2	Q3	Q4	Others	Book chapters	Total	Year	Q1	Q2	Q3	Q4	Others	Book chapters	Total
2024	3	3	1	-	5	-	12	2015	10	6	1	2	-	-	19
2023	7	4	5	2	2	-	20	2014	4	2	-	-	-	-	6
2022	2	4	2	1	1	-	10	2013	1	-	-	-	2	-	3
2021	8	13	4	1	1	1	28	2012	5	-	-	-	1	-	6
2020	7	3	1	4	4	2	21	2011	3	1	-	-	3	-	7
2019	2	2	-	2	3	-	9	2010	-	-	-	-	1	1	2
2018	3	4	1	-	3	1	12	2009	2	1	-	-	1	-	4
2017	9	3	1	1	1	1	16	2008	-	-	-	-	1	-	1
2016	17	3	-	1	2	-	23	2007	1	1	-	-	-	-	2
								Total	84	50	16	14	31	6	**201**

Book Chapters

2021   **1.**   A. S. Yadav, V. K. Yadav, **V. Mukherjee**, and S. Ghosh, "Performance investigation of different bypass diode topology-based SDK-PV arrays under partial shading conditions," *Innovations in Electrical and Electronic Engineering, Springer*, pp. 261-270.

2020   **1.**   T. Mahto, H. Malik, and **V. Mukherjee**, "Condition monitoring, and fault detection and diagnostics of wind energy conversion system (WECS)," *Soft Computing in Condition Monitoring and Diagnostics of Electrical and Mechanical Systems*, *Springer*, pp. 121-154.

         2.   S. Chatterjee and **V. Mukherjee**, "A novel moth-flame algorithm for PID-controlled processes with time delay," *AI Techniques for Reliability Prediction for Electronic Components*, *(IGI Global),* 2020.

2018   **1.**   **V. Mukherjee**, A. Mukherjee, and D. Prasad, "Whale optimization algorithm with wavelet mutation for the solution of optimal power flow problem: WOA with wavelet mutation for the solution of OPF problem," *Handbook of research*

on predictive modeling and optimization methods in science and engineering' *(IGI Global, Pennsylvania, USA, 2018),* pp. 500-553.

2017	**1.**	D. Prasad, A. Mukherjee, and **V. Mukherjee**, "Transient stability constrained optimal power flow using chaotic whale optimization algorithm," *Handbook of Neural Computation, Elsevier*, pp. 311-332, 2017, DOI: 10.1016/B978-0-12-811318-9.00017-X.
2010	**1.**	S. P. Ghoshal, A. Chatterjee, and **V. Mukherjee**, "Application of evolutionary optimization techniques for PSS tuning," *Comput. Intel. In Power Eng., Springer*, vol. 302, pp. 325-366, 2010, DOI 10.1007-978-3-642-14013-6 _11.

International Journals

2024

No.	Manuscript details	IF	Q
1.	K. Balu and **V. Mukherjee**, "Optimal deployment of electric vehicle charging stations, renewable distributed generation with battery energy storage and distribution static compensator in radial distribution network considering uncertainties of load and generation," *Applied Energy*, vol. 359, pp. 122707, 2024.	11.2	Q1
2.	D. Ahluwalia, S. Anjum and **V. Mukherjee**, "Comprehensive analysis of line losses and valuation of energy saving in optimized photovoltaic array subjected to partial shadings," *Energy Conversion and Management,* vol. 301, pp. 118034, 2024.	10.4	Q1
3.	V. Saxena, T. Mahto and **V. Mukherjee**, "Frequency control of a multi-microgrid system using a muti-stage controller in an isolated mode," *International Journal of Ambient Energy*, vol. *45, no.* 1, pp. 2346797, 2024.		
4.	V. Shukla, **V. Mukherjee** and B. Singh, "A hybrid optimization for coordinated control of distributed generations*," Engineering Applications of Artificial Intelligence*, vol. 136, Part B, pp. 109023, 2024.	7.4	Q1
5.	D.K. Mishra, **V. Mukherjee** and B. Singh, "Distributed generations planning in distribution networks using genetic algorithm-based multi-objective optimization," *International Journal of System Assurance*	1.6	

Engineering and Management, vol. 15, pp. 5246–5264, 2024.

6. V. Basetti, C. K. Shiva, S. Sen and **V. Mukherjee**, "An intelligent quasi-oppositional HBO technique to solve non-smooth non-convex economic dispatch problem," *Evolutionary Intelligence,* vol. 17, pp. 2293–2344, 2024. **2.3**

7. A. S. Yadav, A. K. Maurya and **V. Mukherjee**, "Performance investigation of ShapeDoKu variant for PV formations under realistic assumptions of shading situations, " *Optik*, vol. 303, pp. 171728, 2024 **3.1** **Q2**

8. P. Pal and **V. Mukherjee**, "Normalized performance indices estimation of photovoltaic technologies incorporating tracking system classifications." *Energy Systems*, 2024. **2.1**

9. A. S. Yadav, A. K. Maurya and **V. Mukherjee**, "Performance investigation of physically relocation arrangement with different associations of bypass diode during shadings," *Optik*, vol. 301, pp. 171686, 2024 **3.1** **Q2**

10. C. Paul, P. K. Roy and **V. Mukherjee**, "Optimal solution for hydro-thermal-wind-solar scheduling using opposition-based whale optimization algorithm," *Soft Computing,* vol. 28, pp. 6003-6037, 2024. **3.2** **Q2**

11. C. Paul, P. K. Roy and **V. Mukherjee**, "Chaotic-quasi-opposition based whale optimization technique applied to multi-objective complementary scheduling of grid connected hydro-thermal-wind-solar-electric vehicle system," *Optimal Control Applications and Method*, vol. 45 no. 4, pp. 1603-1638, 2024. **2.53** **Q3**

12. R. Roy, **V. Mukherjee**, R. P. Singh and Dharmbir Prasad, "Modified student psychology-based optimization based model order reduction of power system," *e-Prime - Advances in Electrical Engineering, Electronics and Energy*, vol. 7, pp. 100497, 2024.

2023

No.	Manuscript details	IF	Q
1.	K. Balu and **V. Mukherjee**, "Optimal allocation of electric vehicle charging stations and renewable distributed generation with battery energy storage in radial distribution system considering time sequence	**9.4**	**Q1**

characteristics of generation and load demand," *Journal of Energy Storage*, vol. *59*, pp.106533, 2023.

2. K. Balu and **V. Mukherjee** "A novel quasi-oppositional chaotic student psychology-based optimization algorithm for deciphering global complex optimization problems," *Knowledge and Information Systems*, vol. 65, no. 12, pp.5387-5477, 2023. **2.7** **Q2**

3. D. Ahluwalia, S. Anjum and **V. Mukherjee**, "Boost in energy generation using robust reconfiguration: A novel scheme for photovoltaic array under realistic fractional partial shadings," *Energy Conversion and Management,* vol. 290, pp. 117211, 2023. **10.4** **Q1**

4. S. Anjum, **V. Mukherjee** and D. Ahluwalia, "Augmenting power efficiency by virtue of a novel physical reconfiguration of solar photovoltaic array in tandem with experimental validation," *Energy Technology,* vol. 11, no. 9, pp. 2300282, 2023. **3.8** **Q3**

5. D. Ahluwalia, S. Anjum and **V. Mukherjee**, "Performance analysis of odd-even sudoku framework for solar photovoltaic array subjected to erratic partial shading situations," *Journal of Photonics for Energy,* vol. 13, no. 1, pp. 015502, 2023. **1.7** **Q4**

6. S. Khatua and **V. Mukherjee**, "A dynamic hybrid protection scheme for on-site emergency power system operated through an integrated microgrid during station blackout in NPP, "*Annals of Nuclear Energy*, vol. 182, pp. 109615, 2023. **1.8** **Q1**

7. C Paul, P Kumar Roy and **V. Mukherjee**, "Study of wind-solar based combined heat and power economic dispatch problem using quasi-oppositional-based whale optimization technique," *Optimal Control Applications and Method*, vol. 44, no. 2, pp. 480-507, 2023. **2.53** **Q3**

8. Vigya, C. K. Shiva, B. Vedik and **V. Mukherjee**, "Comparative analysis of PID and fractional order PID controllers in automatic generation control process with coordinated control of TCSC," *Energy Systems*, vol. 14, pp. 133-170, 2023. **2.1**

9. K. Dasgupta, P. K. Roy, **V. Mukherjee**, "Application of chaos assisted sine cosine algorithm on wind–solar integrated hydrothermal scheduling problem," *Optimal Control Applications and Method*, vol. 44, no. 2, pp. **2.53** **Q3**

1026-1051, 2023.

10.	K. D. Bodha, **V. Mukherjee** and V. K. Yadav, "A player unknown's battlegrounds ranking based optimization technique for power system optimization problem, " *Evolving Systems, vol.* 14, pp. 295–317, 2023.	**2.8**	**Q3**
11.	V. Shukla, **V. Mukherjee**, & B. Singh, "Integration of distributed generations and static VAR compensator in a distribution network using genetic algorithms, " *Journal of The Institution of Engineers (India): Series B, vol.* 104, pp. 395–422, 2023.		
12.	C. Paul, P. K. Roy and **V. Mukherjee**, "wind and solar based multi-objective hydro-thermal scheduling using chaotic-oppositional whale optimization algorithm," *Electric Power Components and Systems*, vol. *51, no.* 6, pp. 568–592, 2023.	**1.9**	**Q3**
13.	M. K. Verma, **V. Mukherjee**, V. K. Yadav and S. Ghosh, "A novel methodology for the planning of charging infrastructure in the scenario of high EV penetration," *Soft Computing,* vol. 27, pp. 5623–5640, 2023.	**3.2**	**Q2**
14.	Vigya, S. Raj, C. K. Shiva, B. Vedik, S. Mahapatra and **V. Mukherjee**, "A novel chaotic chimp sine cosine algorithm Part-I: For solving optimization problem, " *Chaos, Solitons & Fractals*, vol. 173, pp. 113672, 2023.	**5.4**	**Q1**
15.	Vigya, Chandan Kumar Shiva, B. Vedik, S. Raj, S. Mahapatra and **V. Mukherjee**, "A novel chaotic chimp sine cosine algorithm part-II: Automatic generation control of complex power system, " *Chaos, Solitons & Fractals,* vol. 173, pp. 113673, 2023.	**5.4**	**Q1**
16.	S. Ganguly, J. Mudi, **V. Mukherjee** *et al*., "Performance Analysis of Student Psychology-Based Optimization for the Frequency Control of Hybrid-Power System," in *IEEE Access*, vol. 11, pp. 93864-93882, 2023.	**3.7**	**Q2**
17.	S. Anjum, **V. Mukherjee**, "Irregular SuDoKu Modeling of Solar Photovoltaic Arrays for Partial Shading Optimization," *Arabian Journal for Science and Engineering,* vol. 48, pp. 14977–15002, 2023.	**2.5**	**Q2**
18.	Vipul Shukla, **V. Mukherjee** and Bindeshwar Singh, "Integration of distributed generations and static var compensators with static synchronous compensators to reduce power losses," *Engineering Applications of Artificial Intelligence*, vol. 126, Part B, pp.107208, 2023.	**7.4**	**Q1**
19.	S. Ganguly, J. Mudi, T. Si and **V. Mukherjee**, "A novel framework for	**3.1**	**Q1**

interconnected hybrid power system design using hybridization of metaheuristic algorithms and fuzzy inference," *International Journal of Modelling and Simulation*, pp. 1-22, 2023.

No.	Manuscript details	IF	Q
20.	K. Dasgupta, P. K. Roy and **V. Mukherjee**, A Novel Quasi-Oppositional Learning-Based Chaos-Assisted Sine Cosine Algorithm for Hybrid Energy Integrated Dynamic Economic Emission Dispatch. *IETE Journal of Research*, vol. 70 , no. 3, pp. 2453–2480, 2023	1.5	Q4

2022

No.	Manuscript details	IF	Q
1.	S. Anjum and **V. Mukherjee**, "Static and dynamic reconfiguration strategies for reducing partial shading effects in photovoltaic array: A comprehensive review," *Energy Technology*, 2022.	3.619	Q1
2.	K. Balu and **V. Mukherjee**, "A novel quasi-oppositional chaotic harris hawk's optimization algorithm for optimal siting and sizing of distributed generation in radial distribution system," *Neural Processing Letters*, pp.1-71, 2022.	2.908	Q2
3.	J. Mudi, C. K. Shiva, and **V. Mukherjee**, "Quasi-Oppositional whale optimization optimized load frequency stabilization of hybrid power systems integrated with electric vehicle," *Advanced Theory and Simulations*, vol. 5, no. 4, p. 2100510, 2022.	4.004	Q2
4.	C. Kumar Shiva, B. Vedik, S. Mahapatra, M. Nandi, S. Raj, and **V. Mukherjee**, "Load frequency stabilization of stand-alone hybrid distributed generation system using QOHS algorithm," *Int. J. Numerical Modelling: Electronic Networks, Devices and Fields*, p. e2998.	1.296	Q4
5.	K. Dasgupta, P. K. Roy, and **V. Mukherjee**, "Solution of short term integrated hydrothermal-solar-wind scheduling using sine cosine algorithm," *Energy Strategy Reviews*, vol. 40, p. 100824, 2022.	6.425	Q2
6.	S. Anjum, **V. Mukherjee**, and G. Mehta, "Addition progression structure photovoltaic array reconfiguration technique to generate maximum power under static partial shading condition," *Arabian J Sci. and Engg*. pp. 1-14, 2022.	2.334	Q3
7.	S. Anjum, **V. Mukherjee**, and G. Mehta, "Hyper SuDoKu-based solar	2.903	Q3

photovoltaic array reconfiguration for maximum power enhancement under partial shading conditions," *ASME. J. Energy Resour. Technol*, vol. 144, no. 3, p. 031302, 2021.

No.	Manuscript details	IF	Q
8.	S. Anjum, **V. Mukherjee**, and G. Mehta, "Modelling and simulation of AdDoKu based reconfiguration technique to harvest maximum power from photovoltaic array under partial shading conditions," *Simulation Modelling Practice and Theory,* vol. 115, p. 102447, 2021.	3.272	Q1
9.	C. Paul, P. K. Roy, and **V. Mukherjee**, "Optimal solution of combined heat and power dispatch problem using whale optimization algorithm," *Int. J. Applied Metaheuristic Comput.,* vol. 13, no. 1, pp. 1-26, 2022.		
10.	R.S. Pal and **V. Mukherjee**, "Student psychology and social group optimizations based modified synchronous reference frame control topology for PV-DSTATCOM," *Electric Power Systems Research*, vol. 213, p.108677. 2022.	3.9	Q2

2021

No.	Manuscript details	IF	Q
1.	K. D. Bodha, V. K. Yadav, and **V. Mukherjee**, "A novel quantum inspired hybrid metaheuristic for dispatch of power system including solar photovoltaic generation," *Energy Sources, Part B Econ. Planning, Policy*, pp. 1-26, 2021.	3.205	Q3
2.	R. Roy, **V. Mukherjee**, and R. P. Singh, "Harris hawks optimization algorithm for model order reduction of interconnected wind turbines," *ISA Transactions*, 2021.	5.468	Q1
3.	P. Dhar, S. Dutta, and **V. Mukherjee**, "Cross-wavelet assisted convolution neural network (AlexNet) approach for phonocardiogram signals classification," *Biomedical Signal Processing and Control*, 2021.	3.88	Q2
4.	K. Dasgupta, P. K. Roy, and **V. Mukherjee**, "A novel oppositional learning-based chaotic sine cosine algorithm for the dynamic thermal–wind economic dispatch problem," *Engineering Optimization*, 2021.	3.23	Q2
5.	S. Anjum, **V. Mukherjee**, and G. Mehta, "Performance enhancement of photovoltaic array configurations with blocking P-MOSFETs under partial	3.447	Q3

shading condition," *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, vol. 43, no. 20, pp. 2509-2528, 2021.

6.	R. S. Pal and **V. Mukherjee**, "A novel population based maximum point tracking algorithm to overcome partial shading issues in solar photovoltaic technology," *Energy Conv. And Mgmt.*, vol. 244, p. 114470, 2021.	**9.709**	**Q1**
7.	J. Mudi, C. K. Shiva, and **V. Mukherjee**, "An optimal control of integrated hybrid power system with FACTS devices using student psychology-based optimization algorithm," *Advanced Theory and Simulations*, vol. 4, no. 9, p. 2100147, 2021.	**4.004**	**Q2**
8.	P. Pal, **V. Mukherjee**, H. Alemayehu, G. G. Jin, and G. Feyisa, "Generalized adaptive backstepping sliding mode control for synchronizing chaotic systems with uncertainties and disturbances," *Math. Comput. Simul.*, 2021.	**2.463**	**Q2**
9.	C. Paul, P. K. Roy, and **V. Mukherjee**, "Application of chaotic quasi-oppositional whale optimization algorithm on CHPED problem integrated with wind-solar-Evs," *Int. Trans. of Electrical Energy Syst.*, 2021.	**2.86**	**Q2**
10.	A. S. Yadav and **V. Mukherjee**, "Conventional and advanced PV array configurations to extract maximum power under partial shading conditions: A review," *Renewable Energy*, vol. 178, pp. 977-1075, 2021.	**8.001**	**Q1**
11.	Vimlesh, **V. Mukherjee**, and B. Singh, "Hybrid GA-MCS based optimization for integration of DG, DVR, and DSTATCOM planning in distribution networks," *Int. Trans. on Electrical Energy Syst.*, vol. 31, no. 12, 2021.	**2.86**	**Q2**
12.	P. Pal and **V. Mukherjee**, "Off-grid solar photovoltaic/hydrogen fuel cell system for renewable energy generation: An investigation based on techno-economic feasibility assessment for the application of end-user load demand in north-east India," *Renew. Sustain. Energy Rev.*, vol. 149, p. 111421, 2021.	**14.982**	**Q1**
13.	S. Khatua and **V. Mukherjee**, "Adaptive over current protection scheme suitable for station blackout power supply of nuclear power plant operated through an integrated microgrid," *Electric Power Systems Research*, vol. 192, p. 106934, 2021.	**3.414**	**Q2**
14.	R. Roy, **V. Mukherjee**, and R. P. Singh, "Model order reduction of proton exchange membrane fuel cell system using student psychology-based	**5.816**	**Q2**

optimization algorithm," *Int. J. of Hydrogen Energy*, vol. 46, no. 75, pp. 37367-37378, 2021.

15.	S. Anjum, **V. Mukherjee**, and G. Mehta, "Advanced SuDoKu-based reconfiguration strategies for maximum power extraction from partially shaded solar photovoltaic array," *ASME. J. Solar Energy Engg*, vol. 143, no. 6, p. 061003, 2021.	**2.384**	**Q2**
16.	J. Mudi, C. K. Shiva, and **V. Mukherjee**, "Quasi-oppositional whale optimization optimized load frequency stabilization of hybrid power systems integrated with electric vehicle," *Advanced Theory and Simulations*, 2021.	**4.004**	**Q2**
17.	C. Paul, P. K. Roy, and **V. Mukherjee**, "Study of wind-solar based combined heat and power economic dispatch problem using quasi-oppositional-based whale optimization technique," *Optimal Contr. Appl. And Methods*, 2021.	**2.53**	**Q3**
18.	A. S. Yadav and **V. Mukherjee**, "Comprehensive investigation of various bypass diode associations for killer-SuDoKu PV array under several shading conditions," *Energy*, vol., 239, p. 122014, 2022.	**7.147**	**Q1**
19.	S. Khatua, **V. Mukherjee**, "Application of PLC based smart microgrid controller for sequential load restoration during station blackout in nuclear power plants," *Annals of Nuclear Energy*, vol. 151, p. 107899, 2021.	**1.776**	**Q2**
20.	S. Anjum, **V. Mukherjee**, and G. Mehta, "Maximum power generation from novel triangular shaped PV arrays configurations under partial shading conditions," *ASCE-J of Energy Engg*, vol. 147, no. 5, p. 04021033, 2021.	**2.04**	**Q4**
21.	S. Anjum and **V. Mukherjee**, "A novel arithmetic sequence pattern reconfiguration technique for line loss reduction of photovoltaic array under non-uniform irradiance," *J. of Cleaner Production*, 2022.	**9.297**	**Q1**
22.	D. Prasad, A. Mukherjee, and **V. Mukherjee**, "Temperature dependent optimal power flow using chaotic whale optimization algorithm," *Expert Systems*, vol. 38, no. 4, 2021.	**2.587**	**Q2**
23.	Vigya, T. Mahto, H. Malik, **V. Mukherjee**, M. A. Alotaibi, and A. Almutair, "Renewable generation-based hybrid power system control using fractional order-fuzzy controller," *Energy Reports*, vol. 7, pp. 641-653, 2021.	**6.87**	**Q1**
24.	S. Ghosh, V. K. Yadav, **V. Mukherjee**, and S. Gupta, "Three decades of	**2.812**	**Q3**

Indian power-sector reform: A critical assessment," *Utilities Policy*, vol. 68, p. 101158, 2021.

25.	K. Balu and **V. Mukherjee**, "Optimal siting and sizing of distributed generation in radial distribution system using a novel student psychology-based optimization algorithm," *Neural Comput. and Appl.*, pp.1-29, 2021.	**5.606**	**Q1**
26.	N. Mallick and **V. Mukherjee**, "Artificially intelligent MPPT-based photovoltaic integrated smart dynamic voltage restorer," *Int. Trans. on Electrical Energy Syst,* vol. 31, no. 12, p. e13230*,* 2021.	**3.272**	**Q2**
27.	P. Pal, **V. Mukherjee,** P. Kumar, and M. Elizabeth Makhatha, "Pre-feasibility analysis and performance assessment of solar photovoltaic (PV) modules for the application of renewable power generation," *Materials Today Proc.*, vol. 39, 4, pp. 1813-1819, 2021.		

2020

No.	Manuscript details	IF	Q
1.	K. Balu and **V. Mukherjee**, "Siting and sizing of distributed generation and shunt capacitor banks in radial distribution system using constriction factor particle swarm optimization," *Electric Power Components and Systems*, vol. 48, pp. 697-710, 2020.	1.071	Q4
2.	N. Mallick and **V. Mukherjee**, "Maximum power point tracking supported proton exchange membrane fuel cell based intelligent dynamic voltage restorer," *International Journal of Hydrogen Energy*, vol. 45, no. 53, pp. 29271-29287, 2020.	5.816	Q2
3.	S. Saha and **V. Mukherjee**, "A novel multi-objective modified symbiotic organisms search algorithm for optimal allocation of distributed generation in radial distribution system," *Neural Computing and Applications*, pp. 1-21, 2020.	5.606	Q1
4.	R. S. Pal and **V. Mukherjee**, "Metaheuristic based comparative MPPT methods for photovoltaic technology under partial shading condition," *Energy*, 212, 1, pp. 1-23, 2020.	7.147	Q1
5.	B. Das, **V. Mukherjee**, and D. Das, "Student psychology-based optimization algorithm: A new population-based optimization algorithm for solving	4.141	Q1

optimization problems," *Advances in Engineering Software*, vol. 146, p. 102804, 2020.

6. B. Das, **V. Mukherjee** and D. Das, "Optimum placement of biomass DG considering hourly load demand," *Energy and Climate Changes*, vol. 1, p. 100004, 2020.

7. S. Ganguly and **V. Mukherjee**, "Frequency stabilization of isolated hybrid power system by a novel quasi-oppositional whale optimization algorithm," *Iranian J. Sci. and Tech., Trans. of Electrical Engineering, Springer*, vol. 44, pp. 1467-1486, 2020. **1.376** **Q4**

8. S. Ghosh, V. K. Yadav, and **V. Mukherjee**, "A novel hot spot mitigation circuit for improved reliability of PV module," *IEEE Transactions on Device and Materials Reliability*, vol. 20, no. 1, pp. 191-198, 2020. **1.761** **Q3**

9. P. Pal, **V. Mukherjee,** and S. Bhakta, "Design of an intelligent heuristic algorithm-based 11ptimized fuzzy controller for speed control of a separately excited DC motor," *Australian Journal of Electrical and Electronics Engineering*, vol. 17, no. 3, pp. 173-182, 2020.

10. J. Mudi, C. K. Shiva, B. Vedik, and **V. Mukherjee**, "Frequency stabilization of solar thermal-photovoltaic hybrid renewable power generation using energy storage devices," *Iranian J. Sci. and Tech., Trans. of Electrical Engineering, Springer,* vol. 45, no. 1, pp. 1-21, 2020. **1.376** **Q4**

11. K. D. Bodha, V. K. Yadav, and **V. Mukherjee**, "Formulation and application of quantum- inspired tidal firefly technique for multiple-objective mixed cost-effective emission dispatch," *Neural Computing & Applications*, vol. 32, pp. 9217-9232, 2020. **5.606** **Q1**

12. P. Pal, **V. Mukherjee,** P. Kumar, and M. Elizabeth Makhatha, "Viability analysis of direct current (DC) standalone hybrid photovoltaic (PV)/ hydrogen fuel cell (HFC) energy system: A techno-economic approach," *Materials Today Proc.*, vol. 39, no. 4, pp. 1807-1812, 2020.

13. K. Dasgupta, P. K. Roy, and **V. Mukherjee**, "Power flow-based hydro-thermal-wind scheduling of hybrid power system using sine cosine algorithm," *Electric Power Systems Research*, vol. 178, pp. 1-17, 2020. **3.414** **Q2**

14. C. Paul, P. K. Roy, and **V. Mukherjee**, "Chaotic whale optimization algorithm for optimal solution of combined heat and power economic

dispatch problem incorporating wind," *Renewable Energy Focus*, vol. 35, pp. 56-71, 2020.

No.	Manuscript details	IF	Q
15.	M. K. Verma, **V. Mukherjee**, V. K. Yadav, and S. Ghosh, "Indian power distribution sector reforms: A critical review," *Energy Policy*, vol. 144, p. 111672, 2020.	6.142	Q1
16.	S. Khatua and **V. Mukherjee**, "Application of integrated microgrid for strengthening the station blackout power supply in nuclear power plant," *Progress in Nuclear Energy*, vol. 118, p. 103132, 2020.	2.256	Q1
17.	M. Nandi, C. K. Shiva, and **V. Mukherjee**, "Moth flame algorithm for TCSC and SMES based controller design in automatic generation control of a two-area multi-unit hydropower system," *Iranian J. Sci. and Tech., Trans. of Electrical Engineering, Springer*, vol. 44, pp. 1173-1196, 2020.	1.376	Q4
18.	Kapil Deo Bodha, Vinod Kumar Yadav, and **V. Mukherjee**, "Formulation and application of quantum-inspired tidal firefly technique for multiple-objective mixed cost-effective emission dispatch," *Neural Comput. and Appl.*, vol. 32, pp. 9217-9232, 2020.	5.606	Q1
19.	P. Guchit, A. Banerjee, and **V. Mukherjee**, "Comparative study analysis of an isolated hybrid power system model by applying novel symbiosis organism search algorithm," *Ain Shams Eng. J.,* vol. 11, no. 1, pp. 87-98, 2020.	3.18	Q2

2019

No.	Manuscript details	IF	Q
1.	Bikash Das, **V. Mukherjee**, and D. Das, "Dynamic modeling and simulation of diesel generator for stand-alone and grid connected mode of operation," *Alternative Energy and Distributed Generation J.,* vol. 1, no. 1, pp. 6-35, 2019.		
2.	M. K. Verma, **V. Mukherjee**, and V. K. Yadav, "A multi-criteria approach for distribution network expansion through pooled MCDEA and Shannon Entropy," *Int. J. Emerging Electric Power Syst*., vol. 20, no. 4, 2019.		
3.	S. Ghosh, V. K. Yadav, and **V. Mukherjee**, "Improvement of partial shading resilience of PV array though modified bypass arrangement,"	8.001	Q1

Renewable Energy, vol. 143, pp. 1079-1093, 2019.

No.	Manuscript details	IF	Q
4.	N. Mallick, and **V. Mukherjee** "Interval type 2 fuzzy logic controlled advanced dynamic voltage restorer for voltage sag alleviation," *IET Gener. Trans. Dist.*, vol. 13, no. 14, pp. 3020-3028, 2019.	**2.995**	**Q2**
5.	B. Das, **V. Mukherjee**, and D. Das, "Optimum DG placement for known power injection from utility/substation by a novel zero bus load flow approach," *Energy*, *Elsevier*, vol. 175, pp. 228-249, 2019.	**7.147**	**Q1**
6.	S. Ghosh, V. K. Yadav, and **V. Mukherjee**, "Impact of environmental factors on photovoltaic performance and their mitigation strategies–A holistic review," *Renewable Energy Focus*, *Elsevier*, vol. 28, pp. 153-172, 2019.		
7.	S. Saha and **V. Mukherjee**, "A novel multi-objective chaotic symbiotic organisms search algorithm to solve optimal DG allocation problem in radial distribution system," *Int. Trans. Electrical Energy Syst.*, vol. 29, no. 5, pp. 1-25, 2019.	**3.272**	**Q2**
8.	J. Mudi, C. K. Shiva, and **V. Mukherjee**, "Multi-verse optimization algorithm for LFC of power system with imposed nonlinearities using three-degree-of-freedom PID controller," *Iranian J. Sci. and Tech., Trans. of Electrical Engineering, Springer*, vol. 43, pp. 837-856, 2019.	**1.376**	**Q4**
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2.	S. Ganguly, C. K. Shiva, and **V. Mukherjee**, "Frequency stabilization of isolated and grid connected hybrid power system models," *J. Energy*	**6.583**	**Q1**

Storage, vol. 19, pp. 145-159, 2018.

3. A. Banerjee, P. Guchit, **V. Mukherjee,** and S. P. Ghoshal, "Seeker optimized SVC-PID controller for reactive power control of an isolated hybrid power system," *Energy Syst.*, vol. 10, no. 4, pp. 985-1015, 2019.

4. A. S. Yadav and **V. Mukherjee**, "Line losses reduction techniques in puzzled PV array configuration under different shading conditions," *Solar Energy*, vol. 171, pp. 774-783, 2018. **5.742 Q2**

5. S. Saha and **V. Mukherjee**, "A novel chaos integrated symbiotic organisms search algorithms for global optimization," *Soft Computing, Springer,* vol. 22, no. 11, pp. 3797-3816, 2018. **3.643 Q2**

6. D. Prasad, and **V. Mukherjee**, "Solution of optimal reactive power dispatch by symbiotic organism search algorithm incorporating FACTS devices," *IETE J. Res.*, vol. 64, no. 1, pp. 149-160, 2018*.* **2.333 Q3**

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8. B. Singh, C. Pal, **V. Mukherjee**, P. Tiwari, and M. K. Yadav, "Distributed generation planning from power system performance viewpoints: A taxonomical survey," *Renew. Sustain. Energy Rev.*, vol. 75, pp. 1472-1492, 2017. **14.982 Q1**

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16.	G. Shankar and **V. Mukherjee**, "Quasi oppositional harmony search algorithm based controller tuning for load frequency control of multi-source multi-area power system," *Int. J. Elect. Power and Energy Syst.,* vol. 75, pp. 289-302, 2016.	**4.63**	**Q1**
17.	S. Chatterjee, and **V. Mukherjee**, "PID controller for automatic voltage regulator using teaching-learning based optimization technique," *Int. J. Elect. Power and Energy Syst.,* vol. 77, pp. 418-429, 2016.	**4.63**	**Q1**
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| 6. | D. Prasad and **V. Mukherjee**, "A novel symbiotic organisms search algorithm for optimal power flow of power system with FACTS devices," *Eng. Sci. and Tech, an Int. J., Elsevier*, vol. 19, no. 1, pp. 79-89, 2016. | **4.36** | **Q1** |

| 7. | A. Mukherjee and **V. Mukherjee**, "Solution of optimal power flow using chaotic krill herd algorithm," *Chaos, Solitons & Fractals*, vol. 78, pp. 10-21, 2015. | **5.944** | **Q1** |

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No.	Manuscript details	IF	Q
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