

# Nishant Kumar

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46  
papers

1,015  
citations

17  
h-index

30  
g-index

55  
ext. papers

1,432  
ext. citations

5.8  
avg, IF

5.21  
L-index

#	Paper	IF	Citations
46	Command Authentication using Multi-Agent System for Attacks on the Economic Dispatch Problem. <i>IEEE Transactions on Industry Applications</i> , <b>2022</b> , 1-1	4.3	3
45	Attack Detection and Mitigation using Multi-Agent System in the Deregulated Market <b>2021</b> ,		3
44	An MPC Based Algorithm for a Multipurpose Grid Integrated Solar PV System With Enhanced Power Quality and PCC Voltage Assist. <i>IEEE Transactions on Energy Conversion</i> , <b>2021</b> , 36, 1469-1478	5.4	10
43	Steepest Descent Laplacian Regression Based Neural Network Approach for Optimal Operation of Grid Supportive Solar PV Generation. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2021</b> , 68, 1947-1951	3.5	11
42	A Voltage Support Control Strategy for Grid Integrated Solar PV System During Abnormal Grid Conditions Utilizing Interweaved GI. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 8149-8157	8.9	14
41	Cascade- <del>DD</del> controller design for AGC of thermal and hydro-thermal power systems integrated with renewable energy sources. <i>IET Renewable Power Generation</i> , <b>2021</b> , 15, 504-520	2.9	35
40	A Rapid Circle Centre-Line Concept-Based MPPT Algorithm for Solar Photovoltaic Energy Conversion Systems. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2021</b> , 68, 940-949	3.9	12
39	A Spontaneous Control for Grid Integrated Solar Photovoltaic Energy Conversion Systems With Voltage Profile Considerations. <i>IEEE Transactions on Sustainable Energy</i> , <b>2021</b> , 12, 2159-2168	8.2	6
38	Enhanced SOGI Controller for Weak Grid Integrated Solar PV System. <i>IEEE Transactions on Energy Conversion</i> , <b>2020</b> , 35, 1208-1217	5.4	11
37	A Framework of L-HC and AM-MKF for Accurate Harmonic Supportive Control Schemes. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2020</b> , 67, 5246-5256	3.9	10
36	Intuitive control technique for grid connected partially shaded solar PV-based distributed generating system. <i>IET Renewable Power Generation</i> , <b>2020</b> , 14, 600-607	2.9	8
35	Current Controlled Charging Scheme for off Board Electric vehicle Batteries from Solar PV Array <b>2020</b> ,		1
34	Framework of maximum power point tracking for solar PV panel using WSPS technique. <i>IET Renewable Power Generation</i> , <b>2020</b> , 14, 1668-1676	2.9	4
33	LLMLF-Based Control Approach and LPO MPPT Technique for Improving Performance of a Multifunctional Three-Phase Two-Stage Grid Integrated PV System. <i>IEEE Transactions on Sustainable Energy</i> , <b>2020</b> , 11, 371-380	8.2	38
32	Centroid Analogy-Based MPPT Technique for Uniformly Shaded Solar Photovoltaic Array. <i>Iranian Journal of Science and Technology - Transactions of Electrical Engineering</i> , <b>2019</b> , 43, 929-939	1.9	1
31	Grid synchronisation framework for partially shaded solar PV-based microgrid using intelligent control strategy. <i>IET Generation, Transmission and Distribution</i> , <b>2019</b> , 13, 829-837	2.5	16
30	PNKLMF-Based Neural Network Control and Learning-Based HC MPPT Technique for Multiobjective Grid Integrated Solar PV Based Distributed Generating System. <i>IEEE Transactions on Industrial Informatics</i> , <b>2019</b> , 15, 3732-3742	11.9	33

29	Integration of Solar PV With Low-Voltage Weak Grid System: Using Normalized Laplacian Kernel Adaptive Kalman Filter and Learning Based InC Algorithm. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 10746-10758	7.2	31
28	ANOVA Kernel Kalman Filter for Multi-Objective Grid Integrated Solar Photovoltaic-Distribution Static Compensator. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2019</b> , 66, 4256-4264	3.9	14
27	Modulated Perturb and Observe Maximum Power Point Tracking Algorithm for Solar PV Energy Conversion System <b>2019</b> ,		1
26	Framework of Gradient Descent Least Squares Regression-Based NN Structure for Power Quality Improvement in PV-Integrated Low-Voltage Weak Grid System. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 9724-9733	8.9	28
25	Leaky-Least-Logarithmic-Absolute-Difference-Based Control Algorithm and Learning-Based InC MPPT Technique for Grid-Integrated PV System. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 9003-9012	8.9	38
24	Integration of Solar PV With Low-Voltage Weak Grid System: Using Maximize-M Kalman Filter and Self-Tuned P&O Algorithm. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 9013-9022	8.9	39
23	A Quadrature Oscillator-Based DT for Accurate Estimation of Fundamental Load Current for PV System in Distribution Network. <i>IEEE Transactions on Industrial Informatics</i> , <b>2019</b> , 15, 3324-3333	11.9	14
22	Self-Adaptive Incremental Conductance Algorithm for Swift and Ripple-Free Maximum Power Harvesting From PV Array. <i>IEEE Transactions on Industrial Informatics</i> , <b>2018</b> , 14, 2031-2041	11.9	59
21	Quick and oscillation free peak power estimation using SEHC algorithm for single-sensor-based PV-fed battery charging. <i>IET Renewable Power Generation</i> , <b>2018</b> , 12, 207-218	2.9	3
20	Normal Harmonic Search Algorithm-Based MPPT for Solar PV System and Integrated With Grid Using Reduced Sensor Approach and PNKLS Algorithm. <i>IEEE Transactions on Industry Applications</i> , <b>2018</b> , 54, 6343-6352	4.3	46
19	Discrete noise-eliminating second order generalized integrator based control strategy applied to grid-integrated solar PV synchronization converter <b>2018</b> ,		3
18	Implementation of Multilayer Fifth-Order Generalized Integrator-Based Adaptive Control for Grid-Tied Solar PV Energy Conversion System. <i>IEEE Transactions on Industrial Informatics</i> , <b>2018</b> , 14, 2857-2868	11.9	42
17	Framework of Maximum Power Extraction From Solar PV Panel Using Self Predictive Perturb and Observe Algorithm. <i>IEEE Transactions on Sustainable Energy</i> , <b>2018</b> , 9, 895-903	8.2	54
16	MPPT in Dynamic Condition of Partially Shaded PV System by Using WODE Technique. <i>IEEE Transactions on Sustainable Energy</i> , <b>2017</b> , 8, 1204-1214	8.2	85
15	Single Sensor-Based MPPT of Partially Shaded PV System for Battery Charging by Using Cauchy and Gaussian Sine Cosine Optimization. <i>IEEE Transactions on Energy Conversion</i> , <b>2017</b> , 32, 983-992	5.4	75
14	Rapid MPPT for Uniformly and Partial Shaded PV System by Using JayaDE Algorithm in Highly Fluctuating Atmospheric Conditions. <i>IEEE Transactions on Industrial Informatics</i> , <b>2017</b> , 13, 2406-2416	11.9	86
13	Peak power detection of PS solar PV panel by using WPSCO. <i>IET Renewable Power Generation</i> , <b>2017</b> , 11, 480-489	2.9	24
12	Single sensor based MPPT for partially shaded solar photovoltaic by using human psychology optimisation algorithm. <i>IET Generation, Transmission and Distribution</i> , <b>2017</b> , 11, 2562-2574	2.5	32

11	Maximum Power Peak Detection of Partially Shaded PV Panel by Using Intelligent Monkey King Evolution Algorithm. <i>IEEE Transactions on Industry Applications</i> , <b>2017</b> , 53, 5734-5743	4-3	42
10	Maximum power extraction from partially shaded PV panel in rainy season by using improved antlions optimization algorithm <b>2016</b> ,		4
9	Unit commitment problem by using JayaDE optimization algorithm <b>2016</b> ,		3
8	Normal harmonic search algorithm based MPPT of solar PV system <b>2016</b> ,		3
7	A solution to the ramp rate and prohibited operating zone constrained unit commitment by GHS-JGT evolutionary algorithm. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2016</b> , 81, 193-203	5-1	13
6	Maximum power peak detection of partially shaded PV panel by using intelligent monkey king evolution algorithm <b>2016</b> ,		4
5	Harmony Search with Wavelet Mutation evolutionary approach for ramp rate constrained unit commitment <b>2015</b> ,		5
4	Double relay based sag, swell, over and under voltage protection and detection scheme <b>2013</b> ,		4
3	Application of computer and modern automation system for protection and optimum use of High voltage power transformer <b>2013</b> ,		12
2	Optimal linear phase fir high pass filter design using PSOCFIWA-WM <b>2012</b> ,		12
1	Automatic control of tidal power plant <b>2012</b> ,		10