

S Palani

List of Publications by Citations

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47
papers

722
citations

11
h-index

26
g-index

63
ext. papers

878
ext. citations

1.7
avg, IF

4.5
L-index

| # | Paper | IF | Citations |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 47 | MPPT of PV Systems Under Partial Shaded Conditions Through a Colony of Flashing Fireflies. <i>IEEE Transactions on Energy Conversion</i> , 2014 , 29, 463-472 | 5.4 | 204 |
| 46 | Application of a combined particle swarm optimization and perturb and observe method for MPPT in PV systems under partial shading conditions. <i>Renewable Energy</i> , 2015 , 75, 308-317 | 8.1 | 117 |
| 45 | Prediction of surface roughness in CNC end milling by machine vision system using artificial neural network based on 2D Fourier transform. <i>International Journal of Advanced Manufacturing Technology</i> , 2011 , 54, 1033-1042 | 3.2 | 65 |
| 44 | Productivity enhancement of solar still by PCM and Nanoparticles miscellaneous basin absorbing materials. <i>Desalination</i> , 2018 , 433, 186-198 | 10.3 | 58 |
| 43 | Application of random search method for maximum power point tracking in partially shaded photovoltaic systems. <i>IET Renewable Power Generation</i> , 2014 , 8, 670-678 | 2.9 | 52 |
| 42 | Development of a hybrid genetic algorithm/perturb and observe algorithm for maximum power point tracking in photovoltaic systems under non-uniform insolation. <i>IET Renewable Power Generation</i> , 2015 , 9, 757-765 | 2.9 | 29 |
| 41 | Prediction of surface roughness in turning operations by computer vision using neural network trained by differential evolution algorithm. <i>International Journal of Advanced Manufacturing Technology</i> , 2010 , 51, 965-971 | 3.2 | 26 |
| 40 | On-line prediction of micro-turning multi-response variables by machine vision system using adaptive neuro-fuzzy inference system (ANFIS). <i>Machine Vision and Applications</i> , 2013 , 24, 19-32 | 2.8 | 18 |
| 39 | Performance Comparison of Various Controllers for DC-DC Synchronous Buck Converter. <i>Procedia Engineering</i> , 2012 , 38, 2679-2693 | | 13 |
| 38 | Hierarchical classifier for soft and hard exudates detection of retinal fundus images. <i>Journal of Intelligent and Fuzzy Systems</i> , 2014 , 27, 2511-2528 | 1.6 | 12 |
| 37 | Prediction of Surface Roughness in Milling by Machine Vision Using ANFIS. <i>Computer-Aided Design and Applications</i> , 2012 , 9, 269-288 | 1.4 | 12 |
| 36 | Robust Design of Power System Stabilizer using Harmony Search Algorithm. <i>Automatika</i> , 2014 , 55, 162-169 | | 10 |
| 35 | Buck-boost converter feedback controller design via evolutionary search. <i>International Journal of Electronics</i> , 2010 , 97, 1317-1327 | 1.2 | 10 |
| 34 | A dynamic voltage scaling with single power supply and varying speed factor for multiprocessor system using genetic algorithm 2012 , | | 6 |
| 33 | Performance analysis of IC engine with ceramic-coated piston. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 35210-35220 | 5.1 | 6 |
| 32 | Influence of high-velocity oxygen fuel spraying and plasma nitriding on microstructure properties of iron-nickel-chromium alloy using hybrid surface heat treatment. <i>Materials Research Express</i> , 2019 , 6, 086584 | 1.7 | 5 |
| 31 | Blood Vessel, Optical Disk and Damage Area-Based Features for Diabetic Detection from Retinal Images. <i>Arabian Journal for Science and Engineering</i> , 2014 , 39, 7059-7071 | | 5 |

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| 30 | Simulation and performance evaluation of shunt hybrid power filter using fuzzy logic based non-linear control for power quality improvement. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2017 , 42, 1443-1452 | 1 | 5 |
| 29 | ROBUST ELECTRONIC DIFFERENTIAL CONTROLLER FOR AN ELECTRIC VEHICLE. <i>American Journal of Applied Sciences</i> , 2013 , 10, 1356-1362 | 0.8 | 5 |
| 28 | Induction motor Parameter Estimation using Hybrid Genetic Algorithm 2008 , | | 5 |
| 27 | Synchronizing characteristics of a step motor. <i>IEEE Transactions on Automatic Control</i> , 1969 , 14, 510-517 | 5.9 | 5 |
| 26 | Multiple-response modelling and optimisation of micro-turning machining parameters using response surface method. <i>International Journal of Materials Engineering Innovation</i> , 2011 , 2, 288 | 0.9 | 4 |
| 25 | Artificial neural network based voltage controller for energy efficient induction motor drive | | 4 |
| 24 | Enhancing the use of coal-fly ash in coarse aggregates concrete. <i>Materials Today: Proceedings</i> , 2020 , 30, 174-182 | 1.4 | 3 |
| 23 | Particle Swarm Optimization based Sequential and Parallel Tasks Scheduling Model for Heterogeneous Multiprocessor Systems. <i>Fundamenta Informaticae</i> , 2015 , 139, 43-65 | 1 | 3 |
| 22 | Prediction of surface roughness in end milling process by machine vision using neuro fuzzy network 2014 , | | 3 |
| 21 | Prediction and comparison of surface roughness in CNC-turning process by machine vision system using ANN-BP and ANFIS and ANN-DEA models. <i>International Journal of Machining and Machinability of Materials</i> , 2012 , 12, 154 | 0.7 | 3 |
| 20 | An efficient energy and schedule length model for multiprocessor computers. <i>International Journal of Computer Applications in Technology</i> , 2012 , 44, 217 | 0.7 | 3 |
| 19 | Emission Control Diesel Power Plant for Reducing Oxides of Nitrogen through Selective Catalytic Reduction Method using Ammonia. <i>Indian Journal of Science and Technology</i> , 2016 , 9, | 1 | 3 |
| 18 | Deterministic LQR controller for dc-dc Buck converter 2016 , | | 3 |
| 17 | Robust design of power system stabilizer using bacterial foraging algorithm 2013 , 62, 141-152 | | 2 |
| 16 | Performance Evaluation of Energy Efficient Speed Control Techniques for Capacitor-run Single-phase Induction Motor Driving Domestic Fans. <i>Electric Power Components and Systems</i> , 2011 , 39, 331-345 | 1 | 2 |
| 15 | Detection and characterization of brain tumor using segmentation based on HSOM, wavelet packet feature spaces and ANN 2011 , | | 2 |
| 14 | An optimal energy and power model for dynamic voltage scaled multiprocessor systems. <i>International Journal of Business Information Systems</i> , 2012 , 11, 461 | 0.6 | 2 |
| 13 | Optimal feedback controller design for a buck converter using Gaussian type pheromone profile. <i>European Transactions on Electrical Power</i> , 2010 , 20, 979-993 | | 2 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|
| 12 | Design and Development of Billet Sawing Machine for Improving Productivity. <i>Indian Journal of Science and Technology</i> , 2016 , 9, | 1 | 2 |
| 11 | Design and Modification of Radiator in I.C. Engine Cooling System for Maximizing Efficiency and Life. <i>Indian Journal of Science and Technology</i> , 2016 , 9, | 1 | 2 |
| 10 | Design and Development of Reliable Integral Shaft Bearing for Water Pump in Automotive Engine to Reduce Assemble Time and Increase Production. <i>Indian Journal of Science and Technology</i> , 2016 , 9, | 1 | 2 |
| 9 | Fuzzy based controllers for single inductor multiple output buck converter 2016 , | | 1 |
| 8 | Investigation of performance, combustion, and emission characteristics of diesel engine equipped with exhaust gas recirculation using ceria and zirconia nanoparticles-blended rice bran biodiesel. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020 , 1-19 | 1.6 | 1 |
| 7 | An intelligent approach for optimizing Energy consumption and Schedule length of Embedded multiprocessors ¹ . <i>Journal of Intelligent and Fuzzy Systems</i> , 2016 , 31, 579-587 | 1.6 | 1 |
| 6 | Solar photovoltaic fed dual input LED lighting system with constant illumination control. <i>Frontiers in Energy</i> , 2016 , 10, 473-478 | 2.6 | 1 |
| 5 | DESIGN OF HIGH-GAIN EXCITATION CONTROLLER OF SYNCHRONOUS GENERATOR. <i>Electric Power Components and Systems</i> , 1982 , 7, 463-472 | | 0 |
| 4 | Performance Evaluation of OLSR Using Swarm Intelligence and Hybrid Particle Swarm Optimization Using Gravitational Search Algorithm. <i>Research Journal of Applied Sciences, Engineering and Technology</i> , 2014 , 7, 3126-3133 | 0.2 | |
| 3 | Energy consumption and schedule length minimisation of multiprocessor systems using genetic algorithm. <i>International Journal of Business Information Systems</i> , 2013 , 14, 21 | 0.6 | |
| 2 | Kinetic modeling and simulation of the gluco regulatory system to detect endocrine system failure. <i>IRBM News</i> , 2006 , 27, 74-79 | | |
| 1 | Comparative Analysis over Tribology Characterization of TiAlN and TiAlSiN PVD Coating on Plasma Nitride Alloy 20. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , ¹ | 3.2 | |