

Amit Patra

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.

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|-------------------|-------------------------|----------------|-----------------|
| 56 papers | 813 citations | 13 h-index | 27 g-index |
| 80 ext. papers | 1,102 ext. citations | 3.7 avg, IF | 4.82 L-index |

| # | Paper | IF | Citations |
|----|--|-----|-----------|
| 56 | An approach to early stage detection of atherosclerosis using arterial blood pressure measurements. <i>Biomedical Signal Processing and Control</i> , 2021 , 68, 102594 | 4.9 | 1 |
| 55 | A Lumped Parameter Model for Cardiac Output Estimation Using Arterial Blood Pressure Waveform. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2021 , 2021, 5523-5526 | 0.9 | |
| 54 | A Methodology for Identification of Internal Nets for Improving Fault Coverage in Analog and Mixed Signal Circuits. <i>Journal of Electronic Testing: Theory and Applications (JETTA)</i> , 2020 , 36, 719-730 | 0.7 | 0 |
| 53 | Estimation of Arterial Blood Pressure Waveform from Photoplethysmogram Signal using Linear Transfer Function Approach. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2020 , 2020, 2691-2694 | 0.9 | 5 |
| 52 | A Structured Approach for Rapid Identification of Fault-Sensitive Nets in Analog Circuits 2019 , | | 1 |
| 51 | . <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2018 , 65, 1442-1453 | 3.9 | 8 |
| 50 | State of Health Estimation of Lithium-Ion Batteries Using Capacity Fade and Internal Resistance Growth Models. <i>IEEE Transactions on Transportation Electrification</i> , 2018 , 4, 135-146 | 7.6 | 102 |
| 49 | Online Estimation of the Electrochemical Impedance Spectrum and Remaining Useful Life of Lithium-Ion Batteries. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2018 , 67, 1836-1849 | 5.2 | 65 |
| 48 | Modeling of cardiovascular circulation for the early detection of coronary arterial blockage. <i>Mathematical Biosciences</i> , 2018 , 304, 79-88 | 3.9 | 5 |
| 47 | A Hybrid-Mode Operational Transconductance Amplifier for an Adaptively Biased Low Dropout Regulator. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 1245-1254 | 7.2 | 29 |
| 46 | Remaining useful life estimation of lithium-ion batteries based on the internal resistance growth model 2017 , | | 6 |
| 45 | Particle filtering based estimation of remaining useful life of lithium-ion batteries employing power fading data 2017 , | | 3 |
| 44 | Fractional pulse skipping in digitally controlled DC-DC converters for improved light-load efficiency and power spectrum 2016 , | | 2 |
| 43 | Tradeoffs Aware Design Procedure for an Adaptively Biased Capacitorless Low Dropout Regulator Using Nested Miller Compensation. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 369-380 | 7.2 | 31 |
| 42 | A Cascade Point of Load DCDC Converter With a Novel Phase Shifted Switched Capacitor Converter Output Stage. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 353-368 | 7.2 | 11 |
| 41 | Design and Analysis of an Adaptively Biased Low-Dropout Regulator Using Enhanced Current Mirror Buffer. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 2324-2336 | 7.2 | 16 |
| 40 | Analysis, Design, and Performance Evaluation of a Dynamically Slew Enhanced Adaptively Biased Capacitor-Less Low Dropout Regulator. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 7016-7028 | 7.2 | 15 |

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| 39 | Saturation Generated Oscillations in Voltage-Mode Digital Control of DCDC Converters. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 4549-4564 | 7.2 | 4 |
| 38 | Voltage-Mode Digital Pulse Skipping Control of a DCDC Converter With Stable Periodic Behavior and Improved Light-Load Efficiency. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 3372-3379 | 7.2 | 10 |
| 37 | Distribution network reconfiguration using distributed generation unit considering variations of load 2016 , | | 4 |
| 36 | Interference rejection in quadrature band-pass (varSigma varDelta) modulators. <i>Analog Integrated Circuits and Signal Processing</i> , 2015 , 83, 95-101 | 1.2 | |
| 35 | Noninvasive cuffless blood pressure measurement by vascular transit time 2015 , | | 11 |
| 34 | A Single-Stage Low-Dropout Regulator With a Wide Dynamic Range for Generic Applications. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2015 , 1-11 | 2.6 | 7 |
| 33 | A Capacitor-less Low Drop-out (LDO) Regulator with Improved Transient Response for System-on-Chip Applications 2013 , | | 4 |
| 32 | Control Scheme for Reduced Cross-Regulation in Single-Inductor Multiple-Output DCDC Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 5095-5104 | 8.9 | 73 |
| 31 | Embedded Reconfigurable Augmented DC-DC Boost Converter for Fast Transient Recovery 2013 , | | 1 |
| 30 | Estimation of dc Performance of a Lateral Power MOSFET Using Distributed Cell Model. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2012 , 31, 1452-1456 | 2.5 | |
| 29 | A Single-Inductor Multiple-Output Switcher With Simultaneous Buck, Boost, and Inverted Outputs. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 1936-1951 | 7.2 | 100 |
| 28 | ONE-DIMENSIONAL DISCONTINUOUS MAP ANALYSIS OF DCDC CONVERTERS UNDER VOLTAGE CONTROLLED PULSE SKIPPING MODULATION. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012 , 22, 1250049 | 2 | 2 |
| 27 | Achieving Monotonic Variation of Spectral Composition in DCDC Converters Using Pulse Skipping Modulation. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2011 , 58, 1958-1966 | 3.9 | 20 |
| 26 | Design and implementation of a programmable solar photovoltaic simulator 2010 , | | 6 |
| 25 | Bifurcation behavior of a boost converter under voltage controlled pulse skipping modulation in the light of 1-D discontinuous map model 2010 , | | 1 |
| 24 | Impact of a Frequency Modulated Pulsewidth Modulation (PWM) Switching Converter on the Input Power System Quality. <i>IEEE Transactions on Power Electronics</i> , 2010 , 25, 1450-1459 | 7.2 | 27 |
| 23 | RHP zero elimination with near optimum regulation in a current controlled tri-state boost converter through inductor current filtering 2010 , | | 1 |
| 22 | Voltage controlled pulse skipping modulation: Extension towards the ultra light load 2009 , | | 6 |

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|----|---|-----|----|
| 21 | AGC study of a hydrothermal system with SMES and TCPS. <i>European Transactions on Electrical Power</i> , 2009 , 19, 487-498 | | 12 |
| 20 | A Current-Controlled Tristate Boost Converter With Improved Performance Through RHP Zero Elimination. <i>IEEE Transactions on Power Electronics</i> , 2009 , 24, 776-786 | 7.2 | 57 |
| 19 | A new approach for estimation of RDS(on) of power arrays: Extensions and experimental results 2009 , | | 1 |
| 18 | Resistance Estimation for Lateral Power Arrays Through Accurate Netlist Generation. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2009 , 28, 837-845 | 2.5 | 1 |
| 17 | A novel current controlled tri-state boost converter with superior dynamic performance 2008 , | | 5 |
| 16 | ANN- and PSO-Based Synthesis of On-Chip Spiral Inductors for RF ICs. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2008 , 27, 188-192 | 2.5 | 64 |
| 15 | A Fast Exploration Procedure for Analog High-Level Specification Translation. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2008 , 27, 1493-1497 | 2.5 | 3 |
| 14 | A New Approach for Estimation of On-Resistance and Current Distribution in Power Array Layouts 2008 , | | 2 |
| 13 | Chaos-Modulated Ramp IC for EMI Reduction in PWM Buck Converters Design and Analysis of Critical Issues 2008 , | | 7 |
| 12 | Modeling and analysis of DC-DC converters under Pulse Skipping Modulation 2008 , | | 7 |
| 11 | Diagnosability of fair discrete event systems. <i>Asian Journal of Control</i> , 2008 , 10, 651-665 | 1.7 | 5 |
| 10 | On-chip implementation of a multi-output voltage regulator based on single inductor Buck Converter topology 2007 , | | 3 |
| 9 | Broadband scalable model for Si-RF on-chip spiral inductors with substrate eddy current effect. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2007 , 17, 560-573 | 1.5 | 2 |
| 8 | Resistance Estimation of Lateral Power Arrays through Accurate Netlist Generation 2007 , | | 1 |
| 7 | AGC of a hydrothermal system with SMES unit 2006 , | | 4 |
| 6 | A Novel Control Technique for Single-Inductor Multiple-Output DC-DC Buck Converters 2006 , | | 6 |
| 5 | A Formal Approach to On-Line Monitoring of Digital VLSI Circuits: Theory, Design and Implementation. <i>Journal of Electronic Testing: Theory and Applications (JETTA)</i> , 2005 , 21, 503-537 | 0.7 | 12 |
| 4 | A Nondeterministic Extension over Finitely Recursive Process Model. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 1997 , 7, 243-274 | 1 | 1 |

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|---|--|-----|----|
| 3 | Logical models of discrete event systems: A comparative exposition. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 1996 , 21, 683-718 | 1 | 0 |
| 2 | Identification of a class of nonlinear continuous-time systems using Hartley modulating functions. <i>International Journal of Control</i> , 1995 , 62, 1431-1451 | 1.5 | 35 |
| 1 | PMDAn Algorithm for Finding Determinant of a Polynomial Matrix with New Data Structure. <i>IETE Journal of Research</i> , 1993 , 39, 51-53 | 0.9 | |