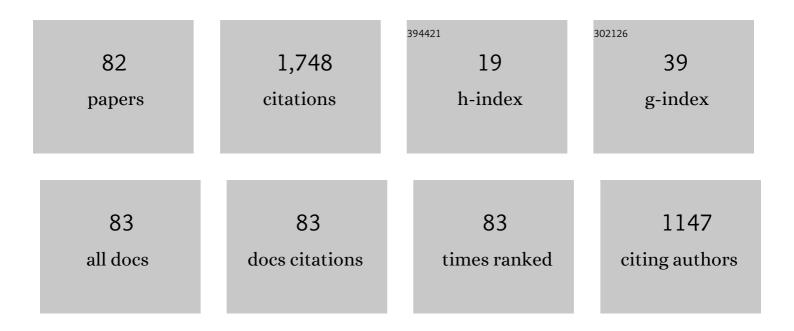
## Sudip K Mazumder

List of Publications by Year in descending order

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| #  | Article                                                                                                                                                                                  | IF   | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1  | Multiresonant-Frequency Filter for an Electrosurgery Inverter. IEEE Transactions on Power Electronics, 2022, 37, 6242-6246.                                                              | 7.9  | 10        |
| 2  | Reduced Collateral Tissue Damage Using Thermal-Feedback-Based Power Adaptation of an Electrosurgery Inverter. IEEE Transactions on Power Electronics, 2022, 37, 11540-11545.             | 7.9  | 7         |
| 3  | Electrical Properties of Optically Triggered SiC JFET for Power Electronic Application. , 2021, , .                                                                                      |      | 1         |
| 4  | Inductor and Transformer-Coupled Magnetic Structure for Zero-Ripple dc-dc Ćuk Converter. , 2021, , .                                                                                     |      | 4         |
| 5  | EMI Mitigation of a Ćuk-Based Power-Electronic System Using Switching-Sequence-Based Control. IEEE<br>Transactions on Power Electronics, 2021, 36, 10627-10644.                          | 7.9  | 8         |
| 6  | A Review of Current Research Trends in Power-Electronic Innovations in Cyber–Physical Systems. IEEE<br>Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5146-5163. | 5.4  | 48        |
| 7  | Cost-Reducing Optimization Strategies of Electrical Trains. , 2019, , .                                                                                                                  |      | 3         |
| 8  | Control of Isolated Differential-Mode Single- and Three-Phase Ćuk Inverters at Module Level. IEEE<br>Transactions on Power Electronics, 2018, 33, 8872-8886.                             | 7.9  | 18        |
| 9  | Towards A Universal Power Manager for Multi-Source Energy Scavenging and Storage. , 2018, , .                                                                                            |      | 0         |
| 10 | Sequential Co-transmission of High-Frequency Power and Data Signals. IEEE Transactions on Industrial Informatics, 2018, 14, 4440-4445.                                                   | 11.3 | 10        |
| 11 | Transformation based tracking controller for a GaN microinverter. , 2016, , .                                                                                                            |      | 5         |
| 12 | Soft-switched discontinuous pulse-width pulse-density modulation scheme. , 2016, , .                                                                                                     |      | 3         |
| 13 | Optimal switching sequence based control of a differential-mode inverter. , 2016, , .                                                                                                    |      | 4         |
| 14 | Stability Analysis of Micropower Network. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 1299-1309.                                                         | 5.4  | 8         |
| 15 | Hybrid Modulation Scheme for a High-Frequency AC-Link Inverter. IEEE Transactions on Power Electronics, 2016, 31, 861-870.                                                               | 7.9  | 27        |
| 16 | An Overview of Photonic Power Electronic Devices. IEEE Transactions on Power Electronics, 2016, 31, 6562-6574.                                                                           | 7.9  | 20        |
| 17 | Sequence-Based Control of an Isolated DC/AC Matrix Converter. IEEE Transactions on Power Electronics, 2016, 31, 1757-1773.                                                               | 7.9  | 16        |
| 18 | Analysis of Input Current Ripple and Optimum Filter Capacitor for Fuel-Cell-Based Single-Phase<br>Inverter. Journal of Fuel Cell Science and Technology, 2015, 12, .                     | 0.8  | 2         |

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| #  | Article                                                                                                                                                                                            | IF  | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | A Fault-Tolerant Switching Scheme for an Isolated DC/AC Matrix Converter. IEEE Transactions on Power Electronics, 2015, 30, 2798-2813.                                                             | 7.9 | 9         |
| 20 | Low ON-State Voltage Optically Triggered Power Transistor for SiC Emitter Turn-OFF Thyristor. IEEE<br>Electron Device Letters, 2015, 36, 484-486.                                                  | 3.9 | 13        |
| 21 | Dynamic stability analysis of power network. , 2015, , .                                                                                                                                           |     | 9         |
| 22 | Optically Switched-Drive-Based Unified Independent <i>dv/dt</i> and <i>di/dt</i> Control for Turn-Off<br>Transition of Power MOSFETs. IEEE Transactions on Power Electronics, 2015, 30, 2338-2349. | 7.9 | 56        |
| 23 | A control mechanism to compensate nonlinearity of discontinuous modulation based grid-connected<br>differential-mode Ćuk inverter. , 2014, , .                                                     |     | 4         |
| 24 | Harmonics analysis for a high-frequency-link (HFL) inverter. , 2014, , .                                                                                                                           |     | 3         |
| 25 | Transient stability analysis of power system using polynomial Lyapunov function based approach. , 2014, , .                                                                                        |     | 14        |
| 26 | A Soft-Switched Hybrid-Modulation Scheme for a Capacitor-Less Three-Phase Pulsating-DC-Link<br>Inverter. IEEE Transactions on Power Electronics, 2014, 29, 3893-3906.                              | 7.9 | 37        |
| 27 | Editorial: Special Issue on High-Frequency-Link Power-Conversion Systems, 2014. IEEE Transactions on<br>Power Electronics, 2014, 29, 3849-3851.                                                    | 7.9 | 3         |
| 28 | Self-contained control for turn-on transition of an optically driven IGBT. , 2014, , .                                                                                                             |     | 5         |
| 29 | Railway Electrical Smart Grids: An introduction to next-generation railway power systems and their operation. IEEE Electrification Magazine, 2014, 2, 49-55.                                       | 1.8 | 60        |
| 30 | Novel Zero-Current-Switching Current-Fed Half-Bridge Isolated DC/DC Converter for Fuel-Cell-Based Applications. IEEE Transactions on Industry Applications, 2013, 49, 1658-1668.                   | 4.9 | 69        |
| 31 | Modulation scheme of the differential-mode Ćuk inverter for loss mitigation. , 2013, , .                                                                                                           |     | 12        |
| 32 | An Optimal Sequence-Based-Controller (OSBC) for a grid-connected three-phase photovoltaic HFL inverter. , 2013, , .                                                                                |     | 2         |
| 33 | Evaluation of first 10-kv optical ETO thyristor operating without any low-voltage control bias. , 2013, , .                                                                                        |     | 15        |
| 34 | Harmonic-compensation based control of a nonlinear differential-mode Ćuk inverter. , 2013, , .                                                                                                     |     | 3         |
| 35 | Sequence-based Lyapunov stability of power-electronic converters. , 2012, , .                                                                                                                      |     | 0         |
|    |                                                                                                                                                                                                    |     |           |

| #  | Article                                                                                                                                                                                                                           | IF  | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Soft-switched hybrid modulation scheme for pulsating-Dc-link converters. , 2012, , .                                                                                                                                              |     | 2         |
| 38 | A Loss-Mitigating Scheme for DC/Pulsating-DC Converter of a High-Frequency-Link System. IEEE<br>Transactions on Industrial Electronics, 2012, 59, 4537-4544.                                                                      | 7.9 | 23        |
| 39 | A differential-mode current-sourced high-frequency-link photovoltaic inverter. , 2012, , .                                                                                                                                        |     | 7         |
| 40 | Control of high-frequency-link inverter using optimal switching sequence. , 2012, , .                                                                                                                                             |     | 3         |
| 41 | A high-frequency-link photovoltaic inverter. , 2012, , .                                                                                                                                                                          |     | 7         |
| 42 | A modular approach for current-source multi-phase inverter. , 2012, , .                                                                                                                                                           |     | 3         |
| 43 | Hybrid-modulation scheme for dc-link-capacitor-less high-frequency-link inverters. , 2012, , .                                                                                                                                    |     | 1         |
| 44 | Optically Activated Gate Control for Power Electronics. IEEE Transactions on Power Electronics, 2011, 26, 2863-2886.                                                                                                              | 7.9 | 32        |
| 45 | A novel primary-side-assisted soft-switching and fault-tolerance of a high-frequency-link inverter for renewable-energy systems. , 2011, , .                                                                                      |     | 5         |
| 46 | Primary-Side-Converter-Assisted Soft-Switching Scheme for an AC/AC Converter in a<br>Cycloconverter-Type High-Frequency-Link Inverter. IEEE Transactions on Industrial Electronics, 2011,<br>58, 4161-4166.                       | 7.9 | 61        |
| 47 | Switching-sequence based global stability and control of standalone and interactive power converters. , 2011, , .                                                                                                                 |     | 0         |
| 48 | Distributed Optimal Delay Robustness and Network Throughput Tradeoff in Control-Communication Networks. , 2011, , 57-84.                                                                                                          |     | 0         |
| 49 | A Soft Switching Scheme for Multiphase DC/Pulsating-DC Converter for Three-Phase<br>High-Frequency-Link Pulsewidth Modulation (PWM) Inverter. IEEE Transactions on Power Electronics,<br>2010, 25, 1761-1774.                     | 7.9 | 54        |
| 50 | An Integrated Modeling Framework for Exploring Network Reconfiguration of Distributed<br>Controlled Homogenous Power Inverter Network using Composite Lyapunov Function Based<br>Reachability Bound. Simulation, 2010, 86, 75-92. | 1.8 | 9         |
| 51 | Novel zero-current switching current-fed half-bridge isolated Dc/Dc converter for fuel cell based applications. , 2010, , .                                                                                                       |     | 11        |
| 52 | Advanced stability analysis and nonlinear control of power electronics systems and networks. , 2010, , .                                                                                                                          |     | 1         |
| 53 | Efficient and Robust Power Management of Reduced Cost Distributed Power Electronics for Fuel-Cell<br>Power System. Journal of Fuel Cell Science and Technology, 2010, 7, .                                                        | 0.8 | 10        |
| 54 | Performance evaluation of a new hybrid-modulation scheme for high-frequency-ac-link inverter:<br>Applications for PV, wind, fuel-cell, and DER/storage applications. , 2010, , .                                                  |     | 14        |

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| #  | Article                                                                                                                                                                                                         | IF  | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Impact of DC link pulse coding on the harmonic distortion of the high-frequency-link inverter. , 2010, ,                                                                                                        |     | 5         |
| 56 | A Universal Grid-Connected Fuel-Cell Inverter for Residential Application. IEEE Transactions on Industrial Electronics, 2010, 57, 3431-3447.                                                                    | 7.9 | 99        |
| 57 | Optically-activated gate control (OAGC) for the next-generation SiC-based power electronics devices and applications. , 2009, , .                                                                               |     | 2         |
| 58 | Soft switching schemes for multiphase dc/dc converter with six-pulse modulated pulsating output. , 2009, , .                                                                                                    |     | 5         |
| 59 | A Soft-Switching Scheme for an Isolated DC/DC Converter With Pulsating DC Output for a<br>Three-Phase High-Frequency-Link PWM Converter. IEEE Transactions on Power Electronics, 2009, 24,<br>2276-2288.        | 7.9 | 92        |
| 60 | Optically-modulated active-gate control (OMAG) for switching electrical power-conversion systems. ,<br>2009, , .                                                                                                |     | 4         |
| 61 | Optically-activated gate control of power semiconductor device switching dynamics. , 2009, , .                                                                                                                  |     | 7         |
| 62 | Joint Optimization of Control Performance and Network Resource Utilization in Homogeneous Power Networks. IEEE Transactions on Industrial Electronics, 2009, 56, 1736-1745.                                     | 7.9 | 56        |
| 63 | Sequence-based control for standalone and networked switching power converters. , 2009, , .                                                                                                                     |     | 5         |
| 64 | Master–Slave Current-Sharing Control of a Parallel DC–DC Converter System Over an RF<br>Communication Interface. IEEE Transactions on Industrial Electronics, 2008, 55, 59-66.                                  | 7.9 | 214       |
| 65 | A Novel Soft-Switching Scheme for an Isolated DC/DC Converter with Pulsating DC Output for a Three-Phase High-Frequency-Link PWM Converter. , 2008, , .                                                         |     | 9         |
| 66 | Reaching Criterion of a Three-Phase Voltage-Source Inverter Operating With Passive and Nonlinear<br>Loads and Its Impact on Global Stability. IEEE Transactions on Industrial Electronics, 2008, 55, 1795-1812. | 7.9 | 29        |
| 67 | Delay constrained optimal resource utilization of wireless networks for distributed control systems. IEEE Communications Letters, 2008, 12, 289-291.                                                            | 4.1 | 12        |
| 68 | Control design for efficient and cost-effective distributed fuel cell power electronics system. , 2008, , .                                                                                                     |     | 1         |
| 69 | Optical Modulation for High Power Systems: Potential for Electromagnetic-Emission, Loss, and Stress<br>Control by Switching Dynamics Variation of Power Semiconductor Devices. , 2008, , .                      |     | 7         |
| 70 | Towards Realization of a Control-Commnunication Framework for Interactive Power Networks. ,<br>2008, , .                                                                                                        |     | 9         |
| 71 | Multiple Lyapunov Function Based Reaching Condition for Orbital Existence of Switching Power Converters. IEEE Transactions on Power Electronics, 2008, 23, 1449-1471.                                           | 7.9 | 70        |
| 72 | Design of an All-SiC Parallel DC/DC Weinberg Converter Unit Using RF Control. IEEE Transactions on Power Electronics, 2008, 23, 2893-2904.                                                                      | 7.9 | 10        |

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| #  | Article                                                                                                                                                                                                               | IF  | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Optimal-sequence-based control of switching power converters in interactive power networks.<br>Power Electronics Specialist Conference (PESC), IEEE, 2008, , .                                                        | 0.0 | 11        |
| 74 | Effects of Electrical Feedbacks on Planar Solid Oxide Fuel Cell. Journal of Fuel Cell Science and<br>Technology, 2007, 4, 154-166.                                                                                    | 0.8 | 39        |
| 75 | Effects of Battery Buffering on the Post-Load-Transient Performance of a PSOFC. IEEE Transactions on Energy Conversion, 2007, 22, 457-466.                                                                            | 5.2 | 16        |
| 76 | A Ripple-Mitigating and Energy-Efficient Fuel Cell Power-Conditioning System. IEEE Transactions on<br>Power Electronics, 2007, 22, 1437-1452.                                                                         | 7.9 | 204       |
| 77 | Dynamic power density, wavelength, and switching time modulation of optically triggered power transistor (OTPT) performance parameters. Microelectronics Journal, 2007, 38, 285-298.                                  | 2.0 | 13        |
| 78 | Epitaxial Design of a Direct Optically Controlled GaAs/AlGaAs-Based Heterostructure Lateral<br>Superjunction Power Device for Fast Repetitive Switching. IEEE Transactions on Electron Devices,<br>2007, 54, 589-600. | 3.0 | 9         |
| 79 | A High-power High-frequency and Scalable Multi-megawatt Fuel-cell Inverter for Power Quality and Distributed Generation. , 2006, , .                                                                                  |     | 17        |
| 80 | Fuel Cell Power Conditioner for Stationary Power System: Towards Optimal Design From Reliability,<br>Efficiency, and Cost Standpoint. , 2005, , 483.                                                                  |     | 5         |
| 81 | Device Technologies for Photonically-Switched Power-Electronic Systems. , 2005, , .                                                                                                                                   |     | 6         |
| 82 | Optically-triggered Power Transistor (OTPT) for Fly-by-light (FBL) and EMI-susceptible Power<br>Electronics. , 0, , .                                                                                                 |     | 11        |