

S3 Technologies

WE OFFER IEEE PROJECTS FOR MCA FINAL YEAR STUDENT PROJECTS, ENGINEERING PROJECTS AND TRAINING, PHP PROJECTS, JAVA AND J2EE PROJECTS, ASP.NET PROJECTS, NS2 PROJECTS, MATLAB PROJECTS AND IPT TRAINING .

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2019 – 2020 POWER ELECTRONICS IEEE PROJECTS

S.N O	Project Code	IEEE 2019 POWER ELECTRONICS Project Titles	Domain	Lang/Year
1	S301	A Unified Power Flow Controller Using a Power Electronics Integrated Transformer	POWER ELECTRONICS	2019
2	S302	Carrier-Based Digital PWM and Multirate Technique of a Cascaded H-Bridge Converter for Power Electronic Traction Transformers	POWER ELECTRONICS	2019
3	S303	Port Controlled Hamiltonian Modeling and IDA-PBC Control of Dual Active Bridge Converters for DC Microgrids	POWER ELECTRONICS	2019
4	S304	A network-based approach for modeling resonant capacitive wireless power transfer systems	POWER ELECTRONICS	2019
5	S305	Interpolation algorithm considering simultaneous solution and instantaneous solution for power electronics electromagnetic transient simulation	POWER ELECTRONICS	2019
6	S306	A Multi-Load Wireless Power Transfer System With Series-Parallel-Series Compensation	POWER ELECTRONICS	2019
7	S307	Electrical and Electronic Technologies in More-Electric Aircraft: A Review	POWER ELECTRONICS	2019
8	S308	Pressureless Silver Sintering on Nickel for Power Module Packaging	POWER ELECTRONICS	2019
9	S309	Transient Behaviors of Multiscale Megawatt Power Electronics Systems—Part II: Design Techniques and Practical Applications	POWER ELECTRONICS	2019
10	S310	Transient Behaviors of Multiscale Megawatt Power Electronics Systems—Part I: Characteristics and Analysis	POWER ELECTRONICS	2019
11	S311	Computer-Aided Identification of Equivalent Power Electronics Converters	POWER ELECTRONICS	2019
12	S312	Computer-Aided Identification of Equivalent Power Electronics Converters	POWER ELECTRONICS	2019
13	S313	Improving Onboard Converter Reliability for More Electric Aircraft With Lifetime-Based Control	POWER ELECTRONICS	2019

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14	S314	Design and Optimization of a Solar Power Conversion System for Space Applications	POWER ELECTRONICS	2019
15	S315	A Comprehensive Review of Maritime Microgrids: System Architectures, Energy Efficiency, Power Quality, and Regulations	POWER ELECTRONICS	2019
16	S316	Mitigation of Interharmonics in PV Systems With Maximum Power Point Tracking Modification	POWER ELECTRONICS	2019
17	S317	Research on AC & DC hybrid power supply system with high-proportion renewable energy of data centre	POWER ELECTRONICS	2019
18	S318	Modeling of power supplies for power modulators with LTspice	POWER ELECTRONICS	2019
19	S319	Power Quality Control of Smart Hybrid AC/DC Microgrids: An Overview	POWER ELECTRONICS	2019
20	S320	High-Frequency Three-Phase Interleaved LLC Resonant Converter With GaN Devices and Integrated Planar Magnetics	POWER ELECTRONICS	2019
21	S321	A review of gallium nitride power device and its applications in motor drive	POWER ELECTRONICS	2019
22	S322	A review of gallium nitride power device and its applications in motor drive	POWER ELECTRONICS	2019
23	S323	Review of Power Conversion and Energy Management for Low-Power, Low-Voltage Energy Harvesting Powered Wireless Sensors	POWER ELECTRONICS	2019
24	S324	Current-Sensorless Power Factor Correction With Predictive Controllers	POWER ELECTRONICS	2019
25	S325	Systematic Reliability Modeling and Evaluation for On-Board POWER ELECTRONICSs of More Electric Aircrafts	POWER ELECTRONICS	2019
26	S326	Direct Power Control Method With Minimum Reactive Power Reference for Three-Phase AC-to-DC Matrix Rectifiers Using Space Vector Modulation	POWER ELECTRONICS	2019
27	S327	Energy Management and Control Strategy of Photovoltaic/Battery Hybrid Distributed Power Generation Systems With an Integrated Three-Port Power Converter	POWER ELECTRONICS	2019
28	S328	Design and Experiment of a High Average Power Ku-Band TE01 Mode Gyro-TWT	POWER ELECTRONICS	2019
29	S329	Collaborative unbalance compensation method for high-speed railway traction power supply system considering energy feedback	POWER ELECTRONICS	2019
30	S330	Predictive Power Control for DFIG: A FARE-Based Weighting Matrices Approach	POWER ELECTRONICS	2019

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31	S331	Auxiliary Power Supply for Medium-Voltage Power Converters: Topology and Control	POWER ELECTRONICS	2019
32	S332	Optimal Phase-Shift Control to Minimize Reactive Power for a Dual Active Bridge DC–DC Converter	POWER ELECTRONICS	2019
33	S333	Optimal Phase-Shift Control to Minimize Reactive Power for a Dual Active Bridge DC–DC Converter	POWER ELECTRONICS	2019
34	S334	Multivariable High-Frequency Input-Admittance of Grid-Connected Converters: Modeling, Validation, and Implications on Stability	POWER ELECTRONICS	2019
35	S335	Multivariable High-Frequency Input-Admittance of Grid-Connected Converters: Modeling, Validation, and Implications on Stability	POWER ELECTRONICS	2019
36	S336	Measurement of Lightning-Induced Overvoltage in Power Distribution Lines Using Ceramic-Capacitor Insulator	POWER ELECTRONICS	2019
37	S337	Gate-driver circuit with a variable supply voltage to influence the switching losses	POWER ELECTRONICS	2019
38	S338	Fully Implantable Cochlear Implant Interface Electronics With 51.2- μ W Front-End Circuit	POWER ELECTRONICS	2019
39	S339	An Efficient Power Management Circuit Based on Quasi Maximum Power Point Tracking With Bidirectional Intermittent Adjustment for Vibration Energy Harvesting	POWER ELECTRONICS	2019
40	S340	Multi-frequency power system for renewable source integration in smart grid	POWER ELECTRONICS	2019
41	S341	Time Domain Analysis of Reactive Components and Optimal Modulation for Isolated Dual Active Bridge DC/DC Converters	POWER ELECTRONICS	2019