

Srdjan M Lukic

List of Publications by Year in descending order

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146
papers

7,145
citations

159525

30
h-index

155592

55
g-index

151
all docs

151
docs citations

151
times ranked

5469
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy Storage Systems for Transport and Grid Applications. IEEE Transactions on Industrial Electronics, 2010, 57, 3881-3895.	5.2	1,054
2	Energy Storage Systems for Automotive Applications. IEEE Transactions on Industrial Electronics, 2008, 55, 2258-2267.	5.2	841
3	Extreme Fast Charging of Electric Vehicles: A Technology Overview. IEEE Transactions on Transportation Electrification, 2019, 5, 861-878.	5.3	431
4	Cutting the Cord: Static and Dynamic Inductive Wireless Charging of Electric Vehicles. IEEE Electrification Magazine, 2013, 1, 57-64.	1.8	419
5	On Integration of Solid-State Transformer With Zonal DC Microgrid. IEEE Transactions on Smart Grid, 2012, 3, 975-985.	6.2	267
6	ZCS LLC-Compensated Resonant Inverter for Inductive-Power-Transfer Application. IEEE Transactions on Industrial Electronics, 2011, 58, 3500-3510.	5.2	257
7	Review of non-isolated bi-directional DC-DC converters for plug-in hybrid electric vehicle charge station application at municipal parking decks. , 2010, , .		191
8	Power Management of an Ultracapacitor/Battery Hybrid Energy Storage System in an HEV. , 2006, , .		188
9	Toward Extreme Fast Charging: Challenges and Opportunities in Directly Connecting to Medium-Voltage Line. IEEE Electrification Magazine, 2019, 7, 22-31.	1.8	160
10	Review of high power isolated bi-directional DC-DC converters for PHEV/EV DC charging infrastructure. , 2011, , .		145
11	Reflexive Field Containment in Dynamic Inductive Power Transfer Systems. IEEE Transactions on Power Electronics, 2014, 29, 4592-4602.	5.4	142
12	Unified Active Filter and Energy Storage System for an MW Electric Vehicle Charging Station. IEEE Transactions on Power Electronics, 2013, 28, 5793-5803.	5.4	129
13	Optimum design of an EV/PHEV charging station with DC bus and storage system. , 2010, , .		111
14	Control of Modular Multilevel Converter With Parallel Connectivity Application to Battery Systems. IEEE Transactions on Power Electronics, 2017, 32, 8381-8392.	5.4	92
15	Design and control of grid-connected converter in bi-directional battery charger for Plug-in hybrid electric vehicle application. , 2009, , .		88
16	Framework and Topology for Active Tuning of Parallel Compensated Receivers in Power Transfer Systems. IEEE Transactions on Power Electronics, 2012, 27, 4503-4513.	5.4	85
17	Hierarchical Control for Virtual Oscillator Based Grid-Connected and Islanded Microgrids. IEEE Transactions on Power Electronics, 2020, 35, 988-1001.	5.4	83
18	Solar-Assisted Electric Auto Rickshaw Three-Wheeler. IEEE Transactions on Vehicular Technology, 2010, 59, 2298-2307.	3.9	81

#	ARTICLE	IF	CITATIONS
19	Dynamic Adaptive Protection for Distribution Systems in Grid-Connected and Islanded Modes. IEEE Transactions on Power Delivery, 2019, 34, 281-289.	2.9	81
20	Distributed Secondary Control Strategy for Microgrid Operation with Dynamic Boundaries. IEEE Transactions on Smart Grid, 2019, 10, 5269-5282.	6.2	80
21	Dynamic programming technique in hybrid electric vehicle optimization. , 2012, , .		72
22	Intelligent energy management system simulator for PHEVs at municipal parking deck in a smart grid environment. , 2009, , .		69
23	Microgrid Protection and Control Schemes for Seamless Transition to Island and Grid Synchronization. IEEE Transactions on Smart Grid, 2020, 11, 2845-2855.	6.2	63
24	Charging ahead. IEEE Industrial Electronics Magazine, 2008, 2, 22-31.	2.3	62
25	Performance evaluation of solid state transformer based microgrid in FREEDM systems. , 2011, , .		60
26	Multifrequency Inductive Power Transfer. IEEE Transactions on Power Electronics, 2014, 29, 5995-6005.	5.4	60
27	Receivers for Multifrequency Wireless Power Transfer: Design for Minimum Interference. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 234-241.	3.7	58
28	State-Switching Control Technique for Switched Reluctance Motor Drives: Theory and Implementation. IEEE Transactions on Industrial Electronics, 2010, 57, 2932-2938.	5.2	52
29	New Method to Achieve AC Harmonic Elimination and Energy Storage Integration for 12-Pulse Diode Rectifiers. IEEE Transactions on Industrial Electronics, 2013, 60, 2547-2554.	5.2	51
30	Multi-function bi-directional battery charger for plug-in hybrid electric vehicle application. , 2009, , .		50
31	Combined Foreign Object Detection and Live Object Protection in Wireless Power Transfer Systems via Real-Time Thermal Camera Analysis. , 2019, , .		48
32	Inductively coupled power transfer for continuously powered electric vehicles. , 2009, , .		46
33	A SiC-Based 100 kW High-Power-Density (34 kW/L) Electric Vehicle Traction Inverter. , 2018, , .		46
34	Comparative Transient Stability Assessment of Droop and Dispatchable Virtual Oscillator Controlled Grid-Connected Inverters. IEEE Transactions on Power Electronics, 2021, 36, 2119-2130.	5.4	46
35	Selective Harmonic Current Rejection for Virtual Oscillator Controlled Grid-Forming Voltage Source Converters. IEEE Transactions on Power Electronics, 2020, 35, 8805-8818.	5.4	44
36	Computationally-Efficient, Generalized Expressions for the Proximity-Effect in Multi-Layer, Multi-Turn Tubular Coils for Wireless Power Transfer Systems. IEEE Transactions on Magnetics, 2013, 49, 5404-5416.	1.2	43

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37	Dynamic Microgrids With Self-Organized Grid-Forming Inverters in Unbalanced Distribution Feeders. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1097-1107.	3.7	42
38	A comparison of medium voltage high power DC/DC converters with high step-up conversion ratio for offshore wind energy systems. , 2011, , .		34
39	Universal Restart Strategy for High-Inertia Scalar-Controlled PMSM Drives. IEEE Transactions on Industry Applications, 2016, 52, 4001-4009.	3.3	34
40	Capacitor Voltage Balancing for Neutral Point Clamped Dual Active Bridge Converters. IEEE Transactions on Power Electronics, 2020, 35, 11267-11276.	5.4	34
41	A Distributed Control Architecture for Cascaded H-Bridge Converter With Integrated Battery Energy Storage. IEEE Transactions on Industry Applications, 2021, 57, 845-856.	3.3	34
42	Modulation Technique to Reverse Power Flow for the Isolated Series Resonant DC-DC Converter With Clamped Capacitor Voltage. IEEE Transactions on Industrial Electronics, 2012, 59, 4617-4628.	5.2	33
43	A SiC-based high-performance medium-voltage fast charger for plug-in electric vehicles. , 2016, , .		33
44	A 12.47 kV Medium Voltage Input 350 kW EV Fast Charger using 10 kV SiC MOSFET. , 2019, , .		33
45	Energy Autonomous Solar/battery Auto Rickshaw. Journal of Asian Electric Vehicles, 2008, 6, 1135-1143.	0.4	31
46	Evaluation of ZigBee communication platform for controlling the charging of PHEVs at a municipal parking deck. , 2009, , .		29
47	Resilient Information Architecture Platform for the Smart Grid: A Novel Open-Source Platform for Microgrid Control. IEEE Transactions on Industrial Electronics, 2020, 67, 9393-9404.	5.2	29
48	A novel wide voltage range bi-directional series resonant converter with clamped capacitor voltage. , 2009, , .		28
49	A SiC-based power converter module for medium-voltage fast charger for plug-in electric vehicles. , 2016, , .		28
50	A Coupling-Insensitive X-Type IPT System for High Position Tolerance. IEEE Transactions on Industrial Electronics, 2021, 68, 6917-6926.	5.2	28
51	Recent advances on Energy Storage Systems. , 2011, , .		27
52	Predictive Control of a Series-Interleaved Multicell Three-Level Boost Power-Factor-Correction Converter. IEEE Transactions on Power Electronics, 2018, 33, 8948-8960.	5.4	27
53	Accurate Consensus-Based Distributed Averaging With Variable Time Delay in Support of Distributed Secondary Control Algorithms. IEEE Transactions on Smart Grid, 2020, 11, 2918-2928.	6.2	27
54	Usage Pattern Development for Three-Wheel Auto Rickshaw Taxis in India. , 2007, , .		26

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55	Universal Restart Strategy for Scalar (V/f) Controlled Induction Machines. IEEE Transactions on Industry Applications, 2017, 53, 5489-5495.	3.3	26
56	A comparison study of control strategies for ZVS resonant converters. , 2010, , .		25
57	DC zonal micro-grid architecture and control. , 2010, , .		25
58	A Reduced Series/Parallel Module for Cascade Multilevel Static Compensators Supporting Sensorless Balancing. IEEE Transactions on Industrial Electronics, 2021, 68, 15-24.	5.2	25
59	Dynamic Microgrids in Resilient Distribution Systems With Reconfigurable Cyber-Physical Networks. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5192-5205.	3.7	24
60	Sensorless scheduling of the modular multilevel series-parallel converter: enabling a flexible, efficient, modular battery. , 2016, , .		23
61	Development of a Controller Hardware-in-the-Loop Platform for Microgrid Distributed Control Applications. , 2018, , .		23
62	Distributed Control Strategy to Achieve Synchronized Operation of an Islanded MG. IEEE Transactions on Smart Grid, 2019, 10, 4487-4496.	6.2	23
63	Passivity-Oriented Discrete-Time Voltage Controller Design for Grid-Forming Inverters. , 2019, , .		23
64	Auxiliary Power Supply for Medium-Voltage Power Converters: Topology and Control. IEEE Transactions on Industry Applications, 2019, 55, 4145-4156.	3.3	21
65	Current Injection Methods for Ripple-Current Suppression in Delta-Configured Split-Battery Energy Storage. IEEE Transactions on Power Electronics, 2019, 34, 7411-7421.	5.4	21
66	Design considerations for DC charging station for plug-in vehicles. , 2011, , .		20
67	Closed-Form Expressions for Minimizing Total Harmonic Distortion in Three-Phase Multilevel Converters. IEEE Transactions on Power Electronics, 2014, 29, 5229-5241.	5.4	20
68	Entrepreneurial Projects Program at Illinois Institute of Technology: Solar/Battery Hybrid Three-Wheel Auto Rickshaw for India. , 2007, , .		19
69	Power Supply for an Electric Vehicle Charging System for a Large Parking Deck. , 2009, , .		19
70	A passivity-based decentralized control strategy for current-controlled inverters in AC microgrids. , 2018, , .		19
71	Reduced-Order Modeling and Design of Single-Stage LCL Compensated IPT System for Low Voltage Vehicle Charging Applications. IEEE Transactions on Vehicular Technology, 2020, 69, 3728-3739.	3.9	19
72	Optimal resonant tank design considerations for primary track compensation in Inductive Power Transfer systems. , 2010, , .		18

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73	Equivalent complex permeability and conductivity of Litz wire in wireless power transfer systems. , 2012, , .		16
74	An Energy Management System for a community energy storage system. , 2012, , .		16
75	Use of inductive power transfer for electric vehicles. , 2010, , .		14
76	Inductive power transfer by means of multiple frequencies in the magnetic link. , 2013, , .		14
77	Droop and Oscillator Based Grid-Forming Converter Controls: A Comparative Performance Analysis. Frontiers in Energy Research, 2020, 8, .	1.2	12
78	LCL filter utilized in battery charging applications to achieve compact size and low ripple charging. , 2012, , .		11
79	Observer Based Admittance Shaping for Resonance Damping in Voltage Source Converters with LCL Filter. , 2019, , .		11
80	Solar/battery electric auto rickshaw three-wheeler. , 2009, , .		10
81	Dynamic Wireless Charging: Reflexive Field Containment Using Saturable Inductors. IEEE Transactions on Industry Applications, 2020, 56, 1784-1792.	3.3	10
82	High-frequency high-efficiency DC-DC converter for distributed energy storage modularization. , 2010, , .		9
83	Magnetic link optimization for wireless power transfer applications: Modeling and experimental validation for resonant tubular coils. , 2012, , .		9
84	Coated-Strand Litz Wire for Multi-Megahertz Frequency Applications. IEEE Transactions on Magnetics, 2016, 52, 1-11.	1.2	9
85	Implementation of a distributed microgrid controller on the Resilient Information Architecture Platform for Smart Systems (RIAPS). , 2017, , .		9
86	A Distributed Control Architecture for Cascaded H-Bridge Converter. , 2019, , .		9
87	A Virtual Impedance Scheme for Voltage Harmonics Suppression in Virtual Oscillator Controlled Islanded Microgrids. , 2020, , .		9
88	A Rotating Restart Method for Scalar (v/f) Controlled Synchronous Reluctance Machine Drives Using a Single DC-Link Current Sensor. IEEE Access, 2020, 8, 106629-106638.	2.6	9
89	A novel scheme for optimal paralleling of batteries and ultracapacitors. , 2009, , .		8
90	A new tri-state-boost-based pickup topology for inductive power transfer. , 2011, , .		8

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91	Transactive energy demo with RIAPS platform. , 2017, , .		8
92	A Hardware-in-the-Loop Real-Time Testbed for Microgrid Hierarchical Control. , 2018, , .		8
93	A low-inductance Sectional Busbar for Snubberless Operation of SiC-based EV Traction Inverters. , 2019, , .		8
94	Passive Capacitor Voltage Balancing of SiC-Based Three-Level Dual-Active-Bridge Converter Using Hybrid NPC-Flying Capacitor Structure. IEEE Transactions on Power Electronics, 2022, 37, 4183-4194.	5.4	8
95	A comparison of converter topologies for vehicle-to-grid applications: Three-leg converter versus H-bridge converter. , 2009, , .		7
96	A universal restart strategy for induction machines. , 2016, , .		7
97	A novel approach towards energy storage system sizing considering battery degradation. , 2016, , .		7
98	Comparative study of PES Net and SyCCo bus: Communication protocols for modular multilevel converter. , 2017, , .		7
99	Saturable inductors for superior reflexive field containment in inductive power transfer systems. , 2018, , .		7
100	Privacy-Preserving Distributed Average Observers in Distribution Systems With Grid-Forming Inverters. IEEE Transactions on Smart Grid, 2021, 12, 5000-5010.	6.2	7
101	Performance characterization and optimization of various circuit topologies to combine batteries and ultra-capacitors. , 2010, , .		6
102	Control strategy of fuel cell hybrid electric vehicle based on driving cycle recognition. , 2012, , .		6
103	Small-signal analysis and modeling of the Dual Active Half Bridge converter. , 2012, , .		6
104	Multilayer Tubular Conductor for High <i>Q</i> -Factor Wireless Power Transfer System Resonators. IEEE Transactions on Industry Applications, 2016, 52, 4170-4178.	3.3	6
105	An Adaptive Interleaving Algorithm for Multi-Converter Systems. , 2018, , .		6
106	Device Access Abstractions for Resilient Information Architecture Platform for Smart Grid. IEEE Embedded Systems Letters, 2019, 11, 34-37.	1.3	6
107	High-isolation Low-coupling-capacitance Standalone Gate Drive Power Supply for SiC-based Medium-Voltage Power Electronic Systems. , 2019, , .		6
108	State Switching Digital Control Technique for Switched Reluctance Motor Drives. , 2007, , .		5

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109	Optimization of foil conductor layout in inductive power transfer system resonators. , 2014, , .		5
110	A simulation testbed for cascade analysis. , 2017, , .		5
111	Auxiliary power supply for medium-voltage power electronics systems. , 2018, , .		5
112	Restart Strategy for Scalar (V/f) Controlled Synchronous Reluctance Machine Driving a High-Inertia Load. IEEE Transactions on Industry Applications, 2019, 55, 3834-3841.	3.3	5
113	Distributed Microgrid Synchronization Strategy Using a Novel Information Architecture Platform. , 2018, , .		4
114	Implementing an Electric Utility Microgrid: Lessons learned. IEEE Electrification Magazine, 2020, 8, 24-36.	1.8	4
115	Distributed Economic Dispatch for Microgrids Tracking Ramp Power Commands. IEEE Transactions on Smart Grid, 2023, 14, 94-111.	6.2	4
116	Investigations into the minimization of electrical costs for traction-type elevators. , 2010, , .		3
117	A novel high step-up ratio bi-directional DC-DC converter. , 2012, , .		3
118	Field containment in dynamic wireless charging systems through source-reciever interaction. , 2013, , .		3
119	Community Microgrid Controller Evaluation using Hardware-in-the-Loop Testbed. , 2018, , .		3
120	A hybrid communication topology for modular multilevel converter. , 2018, , .		3
121	Optimization of Medium Frequency Transformers with Practical Considerations. , 2019, , .		3
122	A Compact 50kW High Power Density, Hybrid 3-Level Paralleled T-type Inverter for More Electric Aircraft Applications. , 2021, , .		3
123	A digital current control for switched reluctance motor drives. , 2010, , .		2
124	Adaptive control for hybrid electric vehicles. International Journal of Electric and Hybrid Vehicles, 2011, 3, 99.	0.2	2
125	Current sharing control for cascaded H-bridge applied to secondary use batteries in Community Energy Storage systems. , 2012, , .		2
126	Modular design of cascaded H-bridge for community energy storage systems by using secondary traction batteries. , 2014, , .		2

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127	A universal restart strategy for permanent magnet synchronous machines. , 2015, , .		2
128	Multi-layer tubular conductor for high Q-factor wireless power transfer system resonators. , 2015, , .		2
129	Decentralized Synchronization of AC-Stacked Voltage Source Converters. , 2018, , .		2
130	Restart Strategy for Synchronous Reluctance Machine Driving a High Inertia Load. , 2018, , .		2
131	Optimization of DC-Link Decoupling Snubber Circuit for SiC-based EV Traction Inverters. , 2019, , .		2
132	Light Weight and Efficient Litz-wire Based Ferrite-less Shielding for Wireless Power Transfer. , 2020, , .		2
133	ETO light multilevel converters for large electric vehicle and hybrid electric vehicle drives. , 2009, , .		1
134	Distance estimation algorithm for plug-in hybrid electric vehicle control strategy. , 2013, , .		1
135	Effects of battery degradation on economic viability of energy storage systems participating in regulation markets. , 2017, , .		1
136	Fault identification in distribution systems using maximum overlap wavelet decomposition. , 2017, , .		1
137	Circulating Current Suppression in Multi-cell Series-parallel Converter for Cost-effective Medium-voltage Solid-state transformer. , 2019, , .		1
138	Parallel Frameworks for Robust Optimization of Medium-Frequency Transformers. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5097-5112.	3.7	1
139	New method for current and voltage measuring offset correction in an induction motor sensorless drive. , 2010, , .		0
140	Dual-powered track sections for roadway powered electric vehicles. , 2011, , .		0
141	A 12-pulse diode rectifier with energy storage integration and high power quality on both AC and DC side. , 2012, , .		0
142	Modeling and Optimization of 144 kVA Transformer for EV Fast Charger Application. , 2018, , .		0
143	Wireless Charging System for an Electric Autonomous Micro-transit Transportation Vehicle. , 2019, , .		0
144	Guest Editorial Special Issue on High-Power Fast Chargers and Wireless Charging. IEEE Transactions on Transportation Electrification, 2019, 5, 858-860.	5.3	0

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145	Circulating Reactive Power and Suppression Strategies in DC Power Electronics Networks. , 2021, , .		0
146	Electric vehicle charging infrastructure and dc microgrids. , 2018, , 189-214.		0