

# Ali Ajami

## List of Publications by Year in descending order

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46  
papers

1,946  
citations

393982

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395343

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docs citations

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times ranked

1563  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel High Step-up DC/DC Converter Based on Integrating Coupled Inductor and Switched-Capacitor Techniques for Renewable Energy Applications. IEEE Transactions on Power Electronics, 2015, 30, 4255-4263.	5.4	307
2	Symmetric and Asymmetric Design and Implementation of New Cascaded Multilevel Inverter Topology. IEEE Transactions on Power Electronics, 2014, 29, 6712-6724.	5.4	248
3	A Novel High Step-Up DC-DC Converter With Continuous Input Current Integrating Coupled Inductor for Renewable Energy Applications. IEEE Transactions on Industrial Electronics, 2018, 65, 1306-1315.	5.2	184
4	A Novel Step-Up Multiinput DC-DC Converter for Hybrid Electric Vehicles Application. IEEE Transactions on Power Electronics, 2017, 32, 3549-3561.	5.4	130
5	Analysis and Implementation of a Non-Isolated Bidirectional DC-DC Converter with High Voltage Gain. IEEE Transactions on Industrial Electronics, 2016, , 1-1.	5.2	126
6	Study on a High Voltage Gain SEPIC-Based DC-DC Converter With Continuous Input Current for Sustainable Energy Applications. IEEE Transactions on Power Electronics, 2018, 33, 10403-10409.	5.4	113
7	Developed cascaded multilevel inverter topology to minimise the number of circuit devices and voltage stresses of switches. IET Power Electronics, 2014, 7, 459-466.	1.5	105
8	Data driven approach for fault detection and diagnosis of turbine in thermal power plant using Independent Component Analysis (ICA). International Journal of Electrical Power and Energy Systems, 2012, 43, 728-735.	3.3	100
9	Cascade-Cell multilevel converter with reduced number of switches. IET Power Electronics, 2014, 7, 552-558.	1.5	95
10	Design, analysis and implementation of a buck-boost DC/DC converter. IET Power Electronics, 2014, 7, 2902-2913.	1.5	75
11	Robust terminal sliding mode power flow controller using unified power flow controller with adaptive observer and local measurement. IET Generation, Transmission and Distribution, 2014, 8, 1712-1723.	1.4	39
12	Parallel switch-based chopper circuit for DC capacitor voltage balancing in diode-clamped multilevel inverter. IET Power Electronics, 2014, 7, 503-514.	1.5	37
13	Minimisations of total harmonic distortion in cascaded transformers multilevel inverter by modifying turn ratios of the transformers and input voltage regulation. IET Power Electronics, 2014, 7, 2687-2694.	1.5	29
14	A non-isolated high step-up DC-DC converter with integrated 3 winding coupled inductor and reduced switch voltage stress. International Journal of Circuit Theory and Applications, 2018, 46, 1879-1898.	1.3	27
15	Transformer-based multilevel inverters: analysis, design and implementation. IET Power Electronics, 2019, 12, 1-10.	1.5	27
16	Soft switching method for multiport DC/DC converters applicable in grid connected clean energy sources. IET Power Electronics, 2015, 8, 1246-1254.	1.5	25
17	A New Topology of Multilevel Voltage Source Inverter to Minimize the Number of Circuit Devices and Maximize the Number of Output Voltage Levels. Journal of Electrical Engineering and Technology, 2013, 8, 1328-1336.	1.2	25
18	Design and control of a grid tied 6-switch converter for two independent low power wind energy resources based on PMSGs with MPPT capability. Renewable Energy, 2016, 87, 532-543.	4.3	23

#	ARTICLE	IF	CITATIONS
19	A high step-up DC-DC boost converter with coupled inductor based on quadratic converters. , 2018, , .		21
20	Direct Lyapunov theoryâ€based method for power oscillation damping by robust finiteâ€time control of unified power flow controller. IET Generation, Transmission and Distribution, 2013, 7, 691-699.	1.4	20
21	A single switch high step-up DC-DC converter with three winding coupled inductor. International Transactions on Electrical Energy Systems, 2019, 29, e2668.	1.2	20
22	Fixed speed wind farm operation improvement using current-source converter based UPQC. Energy Conversion and Management, 2012, 58, 10-18.	4.4	17
23	Modular symmetric and asymmetric reduced count switch multilevel current source inverter. IET Power Electronics, 2016, 9, 51-61.	1.5	17
24	Analysis and implementation of a novel three input DCâ€DC boost converter for sustainable energy applications. International Transactions on Electrical Energy Systems, 2019, 29, e2801.	1.2	17
25	Advanced Cascade Multilevel Converter with Reduction in Number of Components. Journal of Electrical Engineering and Technology, 2014, 9, 127-135.	1.2	14
26	Selective harmonic elimination method for wide range of modulation indexes in multilevel inverters using ICA. Journal of Central South University, 2014, 21, 1329-1338.	1.2	11
27	A High Conversion Non-Isolated Bidirectional DC-DC converter with Low Stress for Micro-Grid Applications. , 2019, , .		10
28	A Novel Hybrid Fuzzy/LQR Damping Oscillations Controller Using STATCOM. , 2009, , .		9
29	Implementation of Novel Technique for Selective Harmonic Elimination in Multilevel Inverters Based on ICA. Advances in Power Electronics, 2013, 2013, 1-10.	0.8	9
30	A Sepic based high step-up DC-DC converter integrating coupled inductor for renewable energy applications. , 2017, , .		7
31	Modeling and State Feedback Controller of SSSC Based Current Source Converter. , 2009, , .		6
32	Multilevel hybrid cascade-stack inverter with substantial reduction in switches number and power losses. Turkish Journal of Electrical Engineering and Computer Sciences, 2015, 23, 987-1000.	0.9	6
33	A new concept of multilevel DVR based on Mixed Multi-cell Cascaded topology. , 2010, , .		5
34	Modeling and unified tuning of distributed power flow controller for damping of power system oscillations. Ain Shams Engineering Journal, 2013, 4, 775-782.	3.5	5
35	Power flow controlling using SSSC based on matrix converter via SA-PSO algorithm. Turkish Journal of Electrical Engineering and Computer Sciences, 2016, 24, 1461-1473.	0.9	5
36	Improvement of Indirect Harmonic Compensation Method Using Online Discrete Wavelet Transform. Journal of Circuits, Systems and Computers, 2016, 25, 1650019.	1.0	5

#	ARTICLE	IF	CITATIONS
37	A Novel High-Gain DC-DC Topology Based on Coupled Inductors and Decreased Voltage Stresses on Output Elements. , 2019, , .		5
38	A High Gain DC-DC Topology Based on Two-Winding Coupled Inductors Featuring Continuous Input Current. , 2020, , .		5
39	Modeling and Controlling of IPFC Based Current-Source Converter. , 2009, , .		4
40	A Non-isolated Buck-Boost DC-DC Converter with Continuous Input Current and Wide Conversion Ratio Range for Photovoltaic Applications. , 2022, , .		4
41	A reduced switch multi-input converter for low power variable speed wind turbine application. , 2015, , .		3
42	A general analytical approach to reach maximum grid support by PMSG-based wind turbines under various grid faults. Journal of Central South University, 2019, 26, 2833-2844.	1.2	3
43	Coupled-winding-based 11-level inverter: design and cost analysis. IET Power Electronics, 2018, 11, 2053-2062.	1.5	1
44	A novel high step-up DC-DC converter based on three-winding coupled inductor. EPE Journal (European Power Electronics and Drives Journal), 2019, 29, 1-10.	0.7	1
45	A New High Step-Up DC-DC Topology with Zero DC Magnetizing Inductance Current and Continuous Input Current. , 2020, , .		1
46	A Single-Switch, Coupled Inductor Based Quadratic High Step-Up DC-DC Converter with Low Switch Voltage Stress. , 2022, , .		0