

Ehsan Adib

List of Publications by Year in descending order

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times ranked

1792
citing authors

#	ARTICLE	IF	CITATIONS
1	Zero-Voltage Transition Current-Fed Full-Bridge PWM Converter. IEEE Transactions on Power Electronics, 2009, 24, 1041-1047.	5.4	99
2	Interleaved Buck Converter With Continuous Input Current, Extremely Low Output Current Ripple, Low Switching Losses, and Improved Step-Down Conversion Ratio. IEEE Transactions on Industrial Electronics, 2015, 62, 4769-4776.	5.2	99
3	Analysis of the Integrated SEPIC-Flyback Converter as a Single-Stage Single-Switch Power-Factor-Correction LED Driver. IEEE Transactions on Industrial Electronics, 2016, 63, 3562-3570.	5.2	98
4	A New Interleaved Coupled-Inductor Nonisolated Soft-Switching Bidirectional DC-DC Converter With High Voltage Gain Ratio. IEEE Transactions on Industrial Electronics, 2018, 65, 5529-5538.	5.2	96
5	Family of Zero-Current Transition PWM Converters. IEEE Transactions on Industrial Electronics, 2008, 55, 3055-3063.	5.2	87
6	High Step-Up DC-AC Inverter Suitable for AC Module Applications. IEEE Transactions on Industrial Electronics, 2016, 63, 832-839.	5.2	76
7	Zero-Voltage-Transition PWM Converters With Synchronous Rectifier. IEEE Transactions on Power Electronics, 2010, 25, 105-110.	5.4	65
8	Single-Switch Soft-Switched Isolated DC-DC Converter. IEEE Transactions on Power Electronics, 2012, 27, 1952-1957.	5.4	62
9	Soft-switched non-isolated high step-up DC-DC converter with reduced voltage stress. IET Power Electronics, 2016, 9, 1711-1718.	1.5	58
10	Family of Soft-Switching Single-Switch PWM Converters with Lossless Passive Snubber. IEEE Transactions on Industrial Electronics, 2014, , 1-1.	5.2	57
11	New cascade boost converter with reduced losses. IET Power Electronics, 2016, 9, 1213-1219.	1.5	55
12	A bidirectional soft switched ultracapacitor interface circuit for hybrid electric vehicles. Energy Conversion and Management, 2008, 49, 3578-3584.	4.4	54
13	High step-up Z-source DC-DC converter with coupled inductors and switched capacitor cell. IET Power Electronics, 2015, 8, 1394-1402.	1.5	54
14	Family of Soft-Switching PWM Converters With Current Sharing in Switches. IEEE Transactions on Power Electronics, 2009, 24, 979-984.	5.4	52
15	Analysis and Design of a Zero-Current Switching Forward Converter With Simple Auxiliary Circuit. IEEE Transactions on Power Electronics, 2012, 27, 144-150.	5.4	52
16	High voltage gain interleaved DC-DC converter with minimum current ripple. IET Power Electronics, 2017, 10, 1924-1931.	1.5	50
17	Soft-switched non-isolated high step-up multi-port DC-DC converter for hybrid energy system with minimum number of switches. International Journal of Electrical Power and Energy Systems, 2019, 106, 511-519.	3.3	49
18	Soft switching bidirectional DC-DC converter for ultracapacitor-batteries interface. Energy Conversion and Management, 2009, 50, 2879-2884.	4.4	43

#	ARTICLE	IF	CITATIONS
19	Ultrahigh-Step-Up Nonisolated Interleaved Boost Converter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 2747-2758.	3.7	43
20	Efficient ZVS Synchronous Buck Converter with Extended Duty Cycle and Low-Current Ripple. IEEE Transactions on Industrial Electronics, 2016, 63, 5403-5409.	5.2	42
21	Soft-Switched High Step-Up Quasi-Z-Source DC-DC Converter. IEEE Transactions on Industrial Electronics, 2020, 67, 4547-4555.	5.2	41
22	A New Wireless Power-Transfer Circuit for Retinal Prosthesis. IEEE Transactions on Power Electronics, 2019, 34, 6425-6439.	5.4	36
23	A Single-Stage Single-Switch Soft-Switching Power-Factor-Correction LED Driver. IEEE Transactions on Power Electronics, 2017, 32, 7932-7940.	5.4	35
24	A Nonisolated Ultrahigh Step Down DC-DC Converter with Low Voltage Stress. IEEE Transactions on Industrial Electronics, 2018, 65, 1273-1280.	5.2	34
25	Nonisolated high step-up three-port converter with single magnetic element for photovoltaic systems. IET Power Electronics, 2018, 11, 2151-2160.	1.5	34
26	Integrated soft switching cell and clamp circuit for interleaved high-step converters. IET Power Electronics, 2019, 12, 430-437.	1.5	34
27	Soft-Switched Nonisolated High Step-Down Converter. IEEE Transactions on Industrial Electronics, 2019, 66, 183-190.	5.2	34
28	ZVT Resonant Core Reset Forward Converter With a Simple Auxiliary Circuit. IEEE Transactions on Industrial Electronics, 2018, 65, 242-250.	5.2	33
29	Right-Half-Plane Zero Elimination of Boost Converter Using Magnetic Coupling With Forward Energy Transfer. IEEE Transactions on Industrial Electronics, 2019, 66, 8454-8462.	5.2	32
30	Lossless passive snubber for double ended flyback converter with passive clamp circuit. IET Power Electronics, 2014, 7, 245-250.	1.5	31
31	Switched reluctance motor drive converter operating in continuous conduction mode with high demagnetisation voltage. IET Power Electronics, 2015, 8, 1119-1127.	1.5	31
32	Lossless passive snubber for half bridge interleaved flyback converter. IET Power Electronics, 2014, 7, 1475-1481.	1.5	29
33	Analysis of a New Single-Stage Soft-Switching Power-Factor-Correction LED Driver With Low DC-Bus Voltage. IEEE Transactions on Industrial Electronics, 2018, 65, 3858-3865.	5.2	27
34	A Novel Current Source Gate Driver for ultra-low voltage applications. IEEE Transactions on Industrial Electronics, 2016, , 1-1.	5.2	26
35	Improved High Step-Up Z -Source DC-DC Converter With Single Core and ZVT Operation. IEEE Transactions on Power Electronics, 2018, 33, 9647-9655.	5.4	26
36	High step-down interleaved buck converter with low voltage stress. IET Power Electronics, 2015, 8, 2352-2360.	1.5	25

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37	High-Step-Down DC-DC Converter With Continuous Output Current Using Coupled-Inductors. IEEE Transactions on Power Electronics, 2019, 34, 10936-10944.	5.4	25
38	A Soft-Switching Step-Down PFC Converter With Output Voltage Doubler and High Power Factor. IEEE Transactions on Power Electronics, 2019, 34, 416-424.	5.4	25
39	Soft-switching DC-DC Cuk converter operating in discontinuous-capacitor-voltage mode. IET Power Electronics, 2017, 10, 1679-1686.	1.5	24
40	Analysis, Design, and Implementation of a ZVT High Step-Up DC-DC Converter With Continuous Input Current. IEEE Transactions on Industrial Electronics, 2020, 67, 10455-10463.	5.2	23
41	ZCS-PWM interleaved boost converter using resonance-clamp auxiliary circuit. IET Power Electronics, 2017, 10, 405-412.	1.5	21
42	Family of soft-switching pulse-width modulation converters using coupled passive snubber. IET Power Electronics, 2017, 10, 792-800.	1.5	21
43	Single-Switch Soft-Switching LED Driver Suitable for Battery-Operated Systems. IEEE Transactions on Industrial Electronics, 2019, 66, 2726-2734.	5.2	21
44	Non-isolated interleaved bidirectional DC-DC converter with high step voltage ratio and minimum number of switches. IET Power Electronics, 2019, 12, 1510-1520.	1.5	20
45	Multi-Input High Step-Up DC-DC Converter With Independent Control of Voltage and Power for Hybrid Renewable Energy Systems. IEEE Transactions on Industrial Electronics, 2021, 68, 12079-12087.	5.2	20
46	Family of single-switch soft-switching pulse-width modulation DC-DC converters with reduced switch stress. IET Power Electronics, 2014, 7, 2182-2189.	1.5	19
47	Single-core soft-switching high step-up three-level boost converter with active clamp. IET Power Electronics, 2016, 9, 2692-2699.	1.5	19
48	A Dual-Switch Discontinuous Current-Source Gate Driver for a Narrow On-Time Buck Converter. IEEE Transactions on Power Electronics, 2018, 33, 4215-4223.	5.4	19
49	A High Step-Down Buck Converter With Self-Driven Synchronous Rectifier. IEEE Transactions on Industrial Electronics, 2020, 67, 10266-10273.	5.2	19
50	Resonance based zero-voltage zero-current switching full bridge converter. IET Power Electronics, 2014, 7, 1685-1690.	1.5	18
51	Zero voltage switching interleaved coupled inductor synchronous buck converter operating at boundary condition. IET Power Electronics, 2016, 9, 126-131.	1.5	18
52	New single-stage, single-switch, soft-switching three-phase SEPIC and Cuk-type power factor correction converters. IET Power Electronics, 2014, 7, 1878-1885.	1.5	17
53	Single-stage single-switch power factor correction converter based on discontinuous capacitor voltage mode buck and flyback converters. IET Power Electronics, 2013, 6, 146-152.	1.5	16
54	Single soft switched isolated converter with constant output current for light emitting diode driver. IET Power Electronics, 2014, 7, 3110-3115.	1.5	16

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55	Micro-inverter based on single-ended primary-inductance converter topology with an active clamp power decoupling. IET Power Electronics, 2018, 11, 73-81.	1.5	16
56	Soft-switching bidirectional DC-DC converter with high voltage conversion ratio. IET Power Electronics, 2018, 11, 33-42.	1.5	16
57	A Nonisolated High Step-Up Three-Port Soft-Switched Converter With Minimum Switches. IEEE Transactions on Industrial Electronics, 2021, 68, 9358-9365.	5.2	16
58	Passive lossless snubber for double-ended flyback converter. IET Power Electronics, 2015, 8, 56-62.	1.5	15
59	Bridgeless single-phase step-down PFC converter. IET Power Electronics, 2016, 9, 2631-2636.	1.5	15
60	A Discontinuous Current-Source Gate Driver With Gate Voltage Boosting Capability. IEEE Transactions on Industrial Electronics, 2017, 64, 5333-5341.	5.2	15
61	A Soft-Switching Step-Down PFC Converter with High Power Factor Using Auxiliary Flyback Circuit. IEEE Transactions on Industrial Electronics, 2019, 66, 6887-6894.	5.2	15
62	Increasing Energy Capture From Partially Shaded PV String Using Differential Power Processing. IEEE Transactions on Industrial Electronics, 2019, 66, 7672-7682.	5.2	15
63	Soft-Switching Bridgeless Buck-Boost PFC Converter Using Single Magnetic Core. IEEE Transactions on Industrial Electronics, 2021, 68, 5704-5711.	5.2	15
64	Forward-type resonant bidirectional DC-DC converter. IET Power Electronics, 2016, 9, 1753-1760.	1.5	14
65	Quasi-resonant DC-link H5 PV inverter. IET Power Electronics, 2017, 10, 1214-1222.	1.5	14
66	Auxiliary circuit for zero-voltage-transition interleaved pulse-width modulation buck converter. IET Power Electronics, 2016, 9, 568-575.	1.5	13
67	Analysis, Design, and Implementation of DC-DC IBBC-DAHB Converter With Voltage Matching to Improve Efficiency. IEEE Transactions on Industrial Electronics, 2019, 66, 5209-5219.	5.2	13
68	Soft switching interleaved PWM buck converter with one auxiliary switch. , 2014, , .		12
69	Soft-Switching Bidirectional Buck/Boost Converter With a Lossless Passive Snubber. IEEE Transactions on Industrial Electronics, 2020, 67, 8363-8370.	5.2	12
70	A Fully Soft Switched Two Quadrant Bidirectional Soft Switching Converter for Ultra Capacitor Interface Circuits. Journal of Power Electronics, 2011, 11, 1-9.	0.9	12
71	High step-up/down DC-DC bidirectional converter with low switch voltage stress. , 2015, , .		11
72	Quasi-resonant DC-Link transformer-less structures for grid-connected PV systems. International Journal of Electrical Power and Energy Systems, 2018, 103, 384-394.	3.3	11

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73	Battery Operated Soft Switching Resonant Buck-Boost LED Driver With Single Magnetic Element. IEEE Transactions on Power Electronics, 2019, 34, 2704-2711.	5.4	11
74	Non-isolated high step-up dual-input DC-DC converter with zero-voltage transition. International Journal of Circuit Theory and Applications, 2020, 48, 762-776.	1.3	11
75	A New Simple-Structure Passive Lossless Snubber for DC-DC Boost Converters. IEEE Transactions on Industrial Electronics, 2021, 68, 2207-2214.	5.2	10
76	A Self-Driven Synchronous Rectification ZCS PWM Two-Switch Forward Converter With Minimum Number of Components. IEEE Transactions on Industrial Electronics, 2022, 69, 12842-12850.	5.2	10
77	Soft Switching Bidirectional Converter for Reflex Charger With Minimum Switches. IEEE Transactions on Industrial Electronics, 2020, 67, 8355-8362.	5.2	9
78	Analysis of a new quasi resonant DC link inverter. , 2011, , .		8
79	New three-phase zero-voltage switching PWM inverter using resonant DC-link. , 2015, , .		8
80	Introducing Self-Oscillating Technique for a Soft-Switched LED Driver. IEEE Transactions on Industrial Electronics, 2018, 65, 6160-6167.	5.2	8
81	An Ultrahigh Step-Up Nonisolated Interleaved Converter With Low Input Current Ripple. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1584-1592.	3.7	8
82	Interleaved non-isolated DC-DC converter for ultra-high step-up applications. IET Power Electronics, 2020, 13, 4261-4269.	1.5	8
83	New converter for switched reluctance motor drive with wide speed range operation. , 2011, , .		7
84	New three-phase discontinuous voltage mode Cuk power factor correction converter for low-power applications. IET Power Electronics, 2013, 6, 946-953.	1.5	7
85	Reducing turn off losses with a passive lossless snubber for boost converter. , 2014, , .		7
86	New single-stage soft-switching flyback inverter for AC module application with simple circuit. , 2015, , .		7
87	New high step-up DC-DC converter for photovoltaic grid-connected applications. , 2015, , .		7
88	A Soft-Switching Double-Input Micro-Inverter. IEEE Transactions on Industrial Electronics, 2021, 68, 6721-6728.	5.2	7
89	An Interleaved Soft Switched High Step-Up Boost Converter With High Power Density for Renewable Energy Applications. IEEE Transactions on Power Electronics, 2022, 37, 13782-13798.	5.4	7
90	Interleaved zero voltage switching coupled inductor buck converter for low voltage-high current applications. , 2013, , .		6

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91	Single-stage soft-switched PWM flyback power factor correction with reduced dead angle. IET Power Electronics, 2017, 10, 1422-1429.	1.5	6
92	Dynamic model development and control for multiple-output flyback converters in DCM and CCM. International Journal of Circuit Theory and Applications, 2018, 46, 1228-1248.	1.3	6
93	Soft-switching non-isolated high step-up three-level boost converter using single magnetic element. IET Power Electronics, 2021, 14, 2324-2336.	1.5	6
94	High step-up interleaved DC-DC converter for photovoltaic systems. IET Power Electronics, 2022, 15, 33-42.	1.5	6
95	A ZVS High Step-Up DC-DC Converter for Renewable Energy Systems With Simple Gate Drive Requirements. IEEE Transactions on Industrial Electronics, 2022, 69, 11253-11261.	5.2	6
96	Resonant Bridgeless Buck PFC Converter With Reduced Components and Dead Angle Elimination. IEEE Transactions on Power Electronics, 2022, 37, 9515-9523.	5.4	6
97	Soft Switching Bridgeless PFC Buck Converters. Journal of Power Electronics, 2012, 12, 268-275.	0.9	5
98	A novel quasi-resonant three-phase soft-switching inverter. , 2012, , .		5
99	Novel grid-connected step-up boost-flyback inverter with ground leakage current elimination for ac-module application. , 2014, , .		5
100	An interleaved high step-up DC-DC converter with low input current ripple. , 2016, , .		5
101	Efficiency improvement of integrated synchronous buck converter using body biasing for ultra-low-voltage applications. Microelectronics Journal, 2017, 63, 94-103.	1.1	5
102	A new nonisolated soft switched DC-DC bidirectional converter with high conversion ratio. International Journal of Electronics, 2020, 107, 2006-2027.	0.9	5
103	Design of a switched-capacitor boost converter utilizing magnetic coupling with capability of right-half plane zero elimination. IET Power Electronics, 2021, 14, 211-224.	1.5	5
104	Zero-current transition interleaved boost converter. , 2011, , .		4
105	Three-phase ripple free DCM boost converter with low THD. IET Power Electronics, 2019, 12, 120-128.	1.5	4
106	A High-Gain Interleaved DC-DC Converter with Passive Clamp Circuit and Low Current Ripple. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2021, 45, 141-153.	1.5	4
107	A soft-switching inverting high step-down converter with a pair of coupled inductors and self-driven synchronous rectifier. IET Power Electronics, 2021, 14, 2441-2451.	1.5	4
108	High performance single stage power factor correction circuit. IET Power Electronics, 2022, 15, 145-154.	1.5	4

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109	A new interleaved ZCS PWM boost converter. , 2010, , .		3
110	Family of single-switch-soft switching PWM converters with single magnetic core. , 2016, , .		3
111	Unity power factor three-phase AC-DC converter applying two switch DCM SEPIC converter with coupled inductors. IET Power Electronics, 2018, 11, 945-951.	1.5	3
112	A High Gain Soft Switching Interleaved DC-DC Converter. IEICE Transactions on Electronics, 2018, E101.C, 906-915.	0.3	3
113	An Improved Cascade Buck Converter for High Step-Down DC-DC Applications. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 626-634.	3.0	3
114	Novel zero voltage transition pulse width modulation flyback converter. International Journal of Electronics, 2010, 97, 1083-1094.	0.9	2
115	New soft switching parallel PFC circuit. , 2015, , .		2
116	A high step-down DC-DC converter with low switch voltage stress and extremely low output current ripple. , 2016, , .		2
117	Structure improvement of active-clamp to achieve high step-down conversion. , 2016, , .		2
118	A single soft switched resonant LED driver circuit. , 2016, , .		2
119	Soft-switching flyback inverter with lossless passive snubber for AC module applications. , 2017, , .		2
120	A new single-stage transformerless inverter for photovoltaic applications. , 2017, , .		2
121	Soft-Switching Isolated Dual Active Bridge Bidirectional DC-DC Converter with Simple Structure. , 2019, , .		2
122	Dead Angle Reduction of Single-Stage PFC Using Controllable Coupled Inductors. Journal of Power Electronics, 2015, 15, 78-85.	0.9	2
123	Simple low-cost ZVS bidirectional forward converter with phase shift control and voltage matching for low power applications. IET Power Electronics, 2020, 13, 4244-4251.	1.5	2
124	A Magnetically Coupled-Inductor Boost Converter with High Bandwidth and Fast Dynamic Response. Journal of Circuits, Systems and Computers, 2022, 31, .	1.0	2
125	An improved wide ZVS soft-switching range PWM bidirectional forward converter for low power applications with simple control circuit. IET Power Electronics, 2022, 15, 1652-1663.	1.5	2
126	A zero voltage switching PWM bidirectional flyback converter with one auxiliary switch. , 2012, , .		1

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127	A New forward type zero voltage switching inverter. , 2012, , .		1
128	A soft switched half bridge interleaved flyback converter with a modified lossless passive snubber. , 2014, , .		1
129	Soft-single-switched dual forward-flyback PWM DC-DC converter with non-dissipative LC circuit. , 2015, , .		1
130	Zeta converter operating in discontinues capacitor voltage mode (DCVM) for LED driver. , 2015, , .		1
131	Class AB amplifier with simultaneous amplitude and output current tracking. , 2012, , .		0
132	New three phase PFCrectifier. , 2012, , .		0