

# Kwon Bonghwan

## List of Publications by Year in descending order

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80  
papers

3,810  
citations

136740

32  
h-index

123241

61  
g-index

80  
all docs

80  
docs citations

80  
times ranked

2600  
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Efficient Single-Stage DAB Microinverter Using a Novel Modulation Strategy to Minimize Reactive Power. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 544-552.	3.7	15
2	Bridgeless Push-Pull Resonant AC/DC Converter Featuring Balanced Switching Loss Distribution. IEEE Transactions on Industrial Electronics, 2022, 69, 1443-1453.	5.2	5
3	Highly Efficient Bidirectional Series-Resonant DC/DC Converter Over Wide Range of Battery Voltages. IEEE Transactions on Power Electronics, 2020, 35, 3636-3650.	5.4	66
4	Direct Single-Power-Conversion Bidirectional Grid-Connected Inverter Solving Commutation Problem. IEEE Transactions on Industrial Electronics, 2020, 67, 10335-10345.	5.2	5
5	Weighted Efficiency Enhancement for Single-Power-Conversion Microinverters Using Hybrid-Mode Modulation Strategy. IEEE Transactions on Industrial Electronics, 2020, 67, 10243-10252.	5.2	5
6	High-efficiency three-phase bidirectional dc-dc converter for energy storage systems. IET Power Electronics, 2019, 12, 2031-2037.	1.5	0
7	Highly Efficient Bridgeless Dual-Mode Resonant Single Power-Conversion AC-DC Converter. IEEE Transactions on Power Electronics, 2019, 34, 10700-10709.	5.4	8
8	A Soft-Switching Single-Stage Converter With High Efficiency for a 3.3-kW On-Board Charger. IEEE Transactions on Industrial Electronics, 2019, 66, 6959-6967.	5.2	31
9	An Active Voltage-Doubler Rectifier Based Hybrid Resonant DC/DC Converter for Wide-Input-Range Thermoelectric Power Generation. IEEE Transactions on Power Electronics, 2018, 33, 9470-9481.	5.4	27
10	Highly Efficient Single-Phase Three-Level Three-Leg Converter Using SiC MOSFETs for AC-AC Applications. IEEE Transactions on Industrial Electronics, 2018, 65, 7015-7024.	5.2	43
11	Single-Switch Single Power-Conversion PFC Converter Using Regenerative Snubber. IEEE Transactions on Industrial Electronics, 2018, 65, 5436-5444.	5.2	15
12	Bidirectional Grid-Connected Single-Power-Conversion Converter With Low-Input Battery Voltage. IEEE Transactions on Industrial Electronics, 2018, 65, 3136-3144.	5.2	19
13	High Step-Up Resonant DC-DC Converter With Ripple-Free Input Current for Renewable Energy Systems. IEEE Transactions on Industrial Electronics, 2018, 65, 8543-8552.	5.2	44
14	Single Switch Single Power Conversion Isolated AC/DC Converter with a High Power Factor and High Efficiency. , 2018, , .		0
15	High-Efficiency Bidirectional Grid-Tied Converter Using Single Power Conversion With High-Quality Grid Current. IEEE Transactions on Industrial Electronics, 2017, 64, 8504-8513.	5.2	17
16	High-Efficiency Soft-Switching AC-DC Converter With Single-Power-Conversion Method. IEEE Transactions on Industrial Electronics, 2017, 64, 4483-4490.	5.2	9
17	Three-level three-phase transformerless inverter with low leakage current for photovoltaic power conditioning system. Solar Energy, 2017, 142, 243-252.	2.9	12
18	Highly efficient step-up dc-dc converter for photovoltaic micro-inverter. Solar Energy, 2016, 135, 14-21.	2.9	28

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19	Bidirectional Single Power-Conversion DC-AC Converter With Noncomplementary Active-Clamp Circuits. IEEE Transactions on Industrial Electronics, 2016, 63, 4860-4867.	5.2	13
20	Electrolytic Capacitor-Less Single-Power-Conversion On-Board Charger With High Efficiency. IEEE Transactions on Industrial Electronics, 2016, 63, 7488-7497.	5.2	19
21	Improved single-phase transformerless inverter with high power density and high efficiency for grid-connected photovoltaic systems. IET Renewable Power Generation, 2016, 10, 166-174.	1.7	32
22	Discrete-Time Repetitive Control of Flyback CCM Inverter for PV Power Applications. IEEE Transactions on Industrial Electronics, 2016, 63, 976-984.	5.2	57
23	Control Strategy of Flyback Microinverter With Hybrid Mode for PV AC Modules. IEEE Transactions on Industrial Electronics, 2016, 63, 995-1002.	5.2	38
24	High-Efficiency Bidirectional DAB Inverter Using a Novel Hybrid Modulation for Stand-Alone Power Generating System With Low Input Voltage. IEEE Transactions on Power Electronics, 2016, 31, 4138-4147.	5.4	87
25	Repetitive control of flyback inverter for PV power applications. , 2015, , .		0
26	Evaluation and analysis of transformerless photovoltaic inverter topology for efficiency improvement and reduction of leakage current. IET Power Electronics, 2015, 8, 255-267.	1.5	130
27	Hybrid-Type Full-Bridge DC/DC Converter With High Efficiency. IEEE Transactions on Power Electronics, 2015, 30, 4156-4164.	5.4	22
28	High efficient series resonant converter using direct power conversion. IET Power Electronics, 2014, 7, 3045-3051.	1.5	22
29	High Efficient Micro-inverter with Soft-switching Step-up Converter and Single-switch-modulation Inverter. IEEE Transactions on Industrial Electronics, 2014, , 1-1.	5.2	45
30	Single-stage electronic ballast with high-power factor. International Journal of Electronics, 2014, 101, 325-340.	0.9	2
31	Parallel operation of photovoltaic power conditioning system modules for large-scale photovoltaic power generation. IET Power Electronics, 2014, 7, 406-417.	1.5	17
32	Single-stage high-power factor half-bridge flyback converter with synchronous rectifier. IET Power Electronics, 2014, 7, 1-10.	1.5	24
33	Single Power-Conversion LED Backlight Driving System With High Power Factor Control. Journal of Display Technology, 2014, 10, 407-413.	1.3	7
34	Single Power-Conversion AC-DC Converter With High Power Factor and High Efficiency. IEEE Transactions on Power Electronics, 2014, 29, 4797-4806.	5.4	30
35	Single-phase transformerless bidirectional inverter with high efficiency and low leakage current. IET Power Electronics, 2014, 7, 451-458.	1.5	35
36	Instant voltage compensator based on a three-leg converter. IET Power Electronics, 2013, 6, 1618-1625.	1.5	14

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37	Comments on "Three-Arm AC Automatic Voltage Regulator. IEEE Transactions on Industrial Electronics, 2012, 59, 646-649.	5.2	1
38	Multiple switching-mode series-resonant half-bridge converter for a wide load range. International Journal of Electronics, 2012, 99, 1675-1689.	0.9	0
39	A single-stage quasi-resonant flyback converter using a synchronous rectifier. International Journal of Electronics, 2011, 98, 1445-1463.	0.9	6
40	High-Power-Factor Single-Stage LCC Resonant Inverter for Liquid Crystal Display Backlight. IEEE Transactions on Industrial Electronics, 2011, 58, 1008-1015.	5.2	26
41	Single-Stage Quasi-Resonant Flyback Converter for a Cost-Effective PDP Sustain Power Module. IEEE Transactions on Industrial Electronics, 2011, 58, 2372-2377.	5.2	43
42	Zero-Voltage- and Zero-Current-Switching Full-Bridge Converter With Secondary Resonance. IEEE Transactions on Industrial Electronics, 2010, 57, 1017-1025.	5.2	103
43	A Simple Sustain Power Conversion Scheme for AC Plasma Display Panel. Journal of Display Technology, 2010, 6, 75-82.	1.3	0
44	Software control of the thyristor-controlled reactor improving dynamic response. International Journal of Electronics, 2009, 96, 173-188.	0.9	2
45	High Step-Up Active-Clamp Converter With Input-Current Doubler and Output-Voltage Doubler for Fuel Cell Power Systems. IEEE Transactions on Power Electronics, 2009, 24, 108-115.	5.4	215
46	Single-Switch Quasi-Resonant Converter. IEEE Transactions on Industrial Electronics, 2009, 56, 1158-1163.	5.2	77
47	A Cost-Effective Sustain Power Conversion Scheme for Plasma Display Panels. Journal of Display Technology, 2009, 5, 10-19.	1.3	1
48	Single-Stage Soft-Switching Converter With Boost Type of Active Clamp for Wide Input Voltage Ranges. IEEE Transactions on Power Electronics, 2009, 24, 730-741.	5.4	28
49	High-Efficiency Fuel Cell Power Conditioning System With Input Current Ripple Reduction. IEEE Transactions on Industrial Electronics, 2009, 56, 826-834.	5.2	196
50	Grid-Connected Photovoltaic Multistring PCS With PV Current Variation Reduction Control. IEEE Transactions on Industrial Electronics, 2009, 56, 4381-4388.	5.2	73
51	Active-Clamped Ripple-Free DC/DC Converter Using an Input-Output Coupled Inductor. IEEE Transactions on Industrial Electronics, 2008, 55, 1842-1854.	5.2	29
52	Single-Stage Single-Switch PFC Flyback Converter Using a Synchronous Rectifier. IEEE Transactions on Industrial Electronics, 2008, 55, 1352-1365.	5.2	118
53	Three-Phase Photovoltaic System With Three-Level Boosting MPPT Control. IEEE Transactions on Power Electronics, 2008, 23, 2319-2327.	5.4	196
54	Multi-mode MPPT control for improved efficiency. , 2008, , .		4

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55	An Efficient Power-Factor Correction Scheme for Plasma Display Panels. Journal of Display Technology, 2008, 4, 70-80.	1.3	13
56	Cost-Effective Boost Converter With Reverse-Recovery Reduction and Power Factor Correction. IEEE Transactions on Industrial Electronics, 2008, 55, 471-473.	5.2	42
57	Asymmetric Current Buildup Sustainer for AC Plasma Display Panel. IEEE Transactions on Industrial Electronics, 2008, 55, 1863-1870.	5.2	11
58	Dual Series-Resonant Active-Clamp Converter. IEEE Transactions on Industrial Electronics, 2008, 55, 699-710.	5.2	77
59	Practical Control Implementation of a Three- to Single-Phase Online UPS. IEEE Transactions on Industrial Electronics, 2008, 55, 2933-2942.	5.2	35
60	High-Performance Transformerless Online UPS. IEEE Transactions on Industrial Electronics, 2008, 55, 2943-2953.	5.2	80
61	A Step-Up DC-DC Converter With a Resonant Voltage Doubler. IEEE Transactions on Industrial Electronics, 2007, 54, 3267-3275.	5.2	29
62	DC-DC Converter Using a Multiple-Coupled Inductor for Low Output Voltages. IEEE Transactions on Industrial Electronics, 2007, 54, 467-478.	5.2	50
63	Bridgeless Boost Rectifier With Low Conduction Losses and Reduced Diode Reverse-Recovery Problems. IEEE Transactions on Industrial Electronics, 2007, 54, 769-780.	5.2	156
64	Corrosion Model of a Rotor-Bar-Under-Fault Progress in Induction Motors. IEEE Transactions on Industrial Electronics, 2006, 53, 1829-1841.	5.2	29
65	Online Diagnosis of Induction Motors Using MCSA. IEEE Transactions on Industrial Electronics, 2006, 53, 1842-1852.	5.2	463
66	High-Performance Online UPS Using Three-Leg-Type Converter. IEEE Transactions on Industrial Electronics, 2005, 52, 889-897.	5.2	115
67	Single-stage line-coupled ac/dc converter with high power factor and ripple-free input current. International Journal of Electronics, 2004, 91, 385-405.	0.9	4
68	Stability Improvement of $V/f$ -Controlled Induction Motor Drive Systems by a Dynamic Current Compensator. IEEE Transactions on Industrial Electronics, 2004, 51, 930-933.	5.2	21
69	Single-stage line-coupled half-bridge ballast with unity power factor and ripple-free input current using a coupled inductor. IEEE Transactions on Industrial Electronics, 2003, 50, 1259-1266.	5.2	21
70	Novel line conditioner with voltage up/down capability. IEEE Transactions on Industrial Electronics, 2002, 49, 1110-1119.	5.2	62
71	Improved single-phase line-interactive UPS. IEEE Transactions on Industrial Electronics, 2001, 48, 804-811.	5.2	96
72	A novel single-stage half-bridge AC-DC converter with high power factor. IEEE Transactions on Industrial Electronics, 2001, 48, 1219-1225.	5.2	24

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73	An improved zero-voltage and zero-current-switching full-bridge PWM converter using a simple resonant circuit. IEEE Transactions on Industrial Electronics, 2001, 48, 1205-1209.	5.2	48
74	Three-phase unbalanced-voltage compensators. International Journal of Electronics, 2000, 87, 995-1011.	0.9	0
75	An effective software implementation of the space-vector modulation. IEEE Transactions on Industrial Electronics, 1999, 46, 866-868.	5.2	29
76	Switching technique for current-controlled AC-to-AC converters. IEEE Transactions on Industrial Electronics, 1999, 46, 309-318.	5.2	60
77	A line-voltage-sensorless synchronous rectifier. IEEE Transactions on Power Electronics, 1999, 14, 966-972.	5.4	101
78	A PWM buck-boost AC chopper solving the commutation problem. IEEE Transactions on Industrial Electronics, 1998, 45, 832-835.	5.2	58
79	A novel SVM-based hysteresis current controller. IEEE Transactions on Power Electronics, 1998, 13, 297-307.	5.4	119
80	Unity power factor ZVS AC-to-DC converters with an active filter. IEEE Transactions on Industrial Electronics, 1997, 44, 265-267.	5.2	6