

Gyu-Hyeong Cho

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121
papers

1,984
citations

22
h-index

40
g-index

128
ext. papers

2,470
ext. citations

4.5
avg, IF

4.89
L-index

#	Paper	IF	Citations
121	General Unified Analyses of Two-Capacitor Inductive Power Transfer Systems: Equivalence of Current-Source SS and SP Compensations. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 6030-6045	7.2	170
120	A 40 mV Transformer-Reuse Self-Startup Boost Converter With MPPT Control for Thermoelectric Energy Harvesting. <i>IEEE Journal of Solid-State Circuits</i> , 2012 , 47, 3055-3067	5.5	139
119	A Single-Inductor Switching DC/DC Converter With Five Outputs and Ordered Power-Distributive Control. <i>IEEE Journal of Solid-State Circuits</i> , 2007 , 42, 2706-2714	5.5	134
118	. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 6446-6455	7.2	88
117	Impact of contact pressure on output voltage of triboelectric nanogenerator based on deformation of interfacial structures. <i>Nano Energy</i> , 2015 , 17, 63-71	17.1	88
116	A zero-voltage and zero-current switching full bridge DC-DC converter with transformer isolation. <i>IEEE Transactions on Power Electronics</i> , 2001 , 16, 573-580	7.2	69
115	Resonant Regulating Rectifiers (3R) Operating for 6.78 MHz Resonant Wireless Power Transfer (RWPT). <i>IEEE Journal of Solid-State Circuits</i> , 2013 , 48, 2989-3001	5.5	65
114	Characterization of novel Inductive Power Transfer Systems for On-Line Electric Vehicles 2011 ,		63
113	A Single-Inductor Step-Up DC-DC Switching Converter With Bipolar Outputs for Active Matrix OLED Mobile Display Panels. <i>IEEE Journal of Solid-State Circuits</i> , 2009 , 44, 509-524	5.5	62
112	A 2 W CMOS Hybrid Switching Amplitude Modulator for EDGE Polar Transmitters. <i>IEEE Journal of Solid-State Circuits</i> , 2007 , 42, 2666-2676	5.5	57
111	High-Gain Wide-Bandwidth Capacitor-Less Low-Dropout Regulator (LDO) for Mobile Applications Utilizing Frequency Response of Multiple Feedback Loops. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2016 , 63, 46-57	3.9	49
110	Load-Independent Control of Switching DC-DC Converters With Freewheeling Current Feedback. <i>IEEE Journal of Solid-State Circuits</i> , 2008 , 43, 2798-2808	5.5	47
109	One-chip electronic detection of DNA hybridization using precision impedance-based CMOS array sensor. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 1373-9	11.8	30
108	23.5 An energy pile-up resonance circuit extracting maximum 422% energy from piezoelectric material in a dual-source energy-harvesting interface 2014 ,		29
107	Modeling and analysis of static and dynamic characteristics for buck-type three-phase PWM rectifier by circuit DQ transformation. <i>IEEE Transactions on Power Electronics</i> , 1998 , 13, 323-336	7.2	29
106	Gyrator-Based Analysis of Resonant Circuits in Inductive Power Transfer Systems. <i>IEEE Transactions on Power Electronics</i> , 2015 , 1-1	7.2	27
105	A Noise-Immune High-Speed Readout Circuit for In-Cell Touch Screen Panels. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2013 , 60, 1800-1809	3.9	26

104	A Synchronous Multioutput Step-Up/Down DCDC Converter With Return Current Control. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2009 , 56, 210-214	3.5	24
103	. <i>IEEE Journal of Solid-State Circuits</i> , 2009 , 44, 3659-3675	5.5	24
102	A Hybrid AMOLED Driver IC for Real-Time TFT Nonuniformity Compensation. <i>IEEE Journal of Solid-State Circuits</i> , 2016 , 51, 966-978	5.5	23
101	PSR Enhancement Through Super Gain Boosting and Differential Feed-Forward Noise Cancellation in a 65-nm CMOS LDO Regulator. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2014 , 22, 2181-2191	2.6	23
100	Self-sustainable wind speed sensor system with omni-directional wind based triboelectric generator. <i>Nano Energy</i> , 2019 , 55, 115-122	17.1	23
99	A CMOS label-free DNA sensor using electrostatic induction of molecular charges. <i>Biosensors and Bioelectronics</i> , 2012 , 31, 343-8	11.8	22
98	A DCDC Converter for a Fully Integrated PID Compensator With a Single Capacitor. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2014 , 61, 629-633	3.5	21
97	. <i>IEEE Journal of Solid-State Circuits</i> , 2014 , 49, 766-782	5.5	20
96	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2013 , 60, 3080-3089	3.9	20
95	An Error-Based Controlled Single-Inductor 10-Output DC-DC Buck Converter With High Efficiency Under Light Load Using Adaptive Pulse Modulation. <i>IEEE Journal of Solid-State Circuits</i> , 2015 , 50, 2825-2838	5.5	19
94	Double Pile-Up Resonance Energy Harvesting Circuit for Piezoelectric and Thermoelectric Materials. <i>IEEE Journal of Solid-State Circuits</i> , 2018 , 53, 1049-1060	5.5	19
93	A 14-b linear capacitor self-trimming pipelined ADC. <i>IEEE Journal of Solid-State Circuits</i> , 2004 , 39, 2046-2051	5.5	19
92	Transformer Coupled Recycle Snubber for High-Efficiency Offline Isolated LED Driver With On-Chip Primary-Side Power Regulation. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 6710-6719	8.9	17
91	An Asynchronous Sampling-Based 128 \times 128 Direct Photon-Counting X-Ray Image Detector with Multi-Energy Discrimination and High Spatial Resolution. <i>IEEE Journal of Solid-State Circuits</i> , 2013 , 48, 541-558	5.5	16
90	P-134: A High-SNR Area-Efficient Readout Circuit using a Delta-Integration Method for Capacitive Touch Screen Panels. <i>Digest of Technical Papers SID International Symposium</i> , 2012 , 43, 1570-1573	0.5	16
89	Envelope Modulator for 1.5-W 10-MHz LTE PA Without AC Coupling Capacitor Achieving 86.5% Peak Efficiency. <i>IEEE Transactions on Power Electronics</i> , 2016 , 1-1	7.2	15
88	Static and dynamic analyses of three-phase rectifier with LC input filter by laplace phasor transformation 2012 ,		15
87	Active EMF cancellation method for I-type pickup of On-Line Electric Vehicles 2011 ,		15

86	High-Efficiency Hybrid Dual-Path Step-Up DCDC Converter With Continuous Output-Current Delivery for Low Output Voltage Ripple. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 6025-6038	7.2	15
85	2-Phase 3-Level ETSM With Mismatch-Free Duty Cycles Achieving 88.6% Peak Efficiency for a 20-MHz LTE RF Power Amplifier. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 2815-2819	7.2	14
84	Zero-voltage and zero-current switching full bridge DC-DC converter for arc welding machines. <i>Electronics Letters</i> , 1999 , 35, 1043	1.1	14
83	. <i>IEEE Journal of Solid-State Circuits</i> , 2010 , 45, 1881-1895	5.5	12
82	Class D audio power amplifier with fine hysteresis control. <i>Electronics Letters</i> , 2002 , 38, 1302	1.1	12
81	. <i>IEEE Transactions on Industry Applications</i> , 1991 , 27, 52-62	4.3	12
80	A Hybrid Structure Dual-Path Step-Down Converter With 96.2% Peak Efficiency Using 250-m Ω Large-DCR Inductor. <i>IEEE Journal of Solid-State Circuits</i> , 2019 , 54, 959-967	5.5	12
79	10.4 A hybrid inductor-based flying-capacitor-assisted step-up/step-down DC-DC converter with 96.56% efficiency 2017 ,		11
78	Inverting Buck-Boost DC-DC Converter for Mobile AMOLED Display Using Real-Time Self-Tuned Minimum Power-Loss Tracking (MPLT) Scheme With Lossless Soft-Switching for Discontinuous Conduction Mode. <i>IEEE Journal of Solid-State Circuits</i> , 2015 , 50, 2380-2393	5.5	11
77	Sine-Reference Band (SRB)-Controlled Average Current Technique for Phase-Cut Dimmable ACDC Buck LED Lighting Driver Without Electrolytic Capacitor. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 6994-7009	7.2	11
76	A 95.2% efficiency dual-path DC-DC step-up converter with continuous output current delivery and low voltage ripple 2018 ,		11
75	A Pseudo Single-Stage Amplifier With an Adaptively Varied Medium Impedance Node for Ultra-High Slew Rate and Wide-Range Capacitive-Load Drivability. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2016 , 63, 1567-1578	3.9	11
74	One-Chip Class-E Inverter Controller for Driving a Magnetron. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 400-407	8.9	10
73	. <i>IEEE Transactions on Industrial Electronics</i> , 1992 , 39, 444-452	8.9	10
72	Voltage-Boosted Current-Mode Wireless Power Receiver for Directly Charging a Low-Voltage Battery in Implantable Medical Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 8860-8865	8.9	10
71	Fully Integrated Digitally Assisted Low-Dropout Regulator for a NAND Flash Memory System. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 388-406	7.2	9
70	Omni-directional inductive power transfer system for mobile robots using evenly displaced multiple pick-ups 2012 ,		9
69	56.4: A Cascaded-Dividing Current DAC with Fine Pitch for High-Resolution AMOLED Display Drivers. <i>Digest of Technical Papers SID International Symposium</i> , 2007 , 38, 1644-1646	0.5	9

68	P-45: A Fast Driving Circuit for AMOLED Displays Using Current Feedback. <i>Digest of Technical Papers SID International Symposium, 2006</i> , 37, 363	0.5	9
67	An integrated CMOS DC-DC converter for battery-operated systems		9
66	A Noninverting BuckBoost Converter With State-Based Current Control for Li-ion Battery Management in Mobile Applications. <i>IEEE Transactions on Industrial Electronics, 2019</i> , 66, 9623-9627	8.9	9
65	. <i>IEEE Journal of Solid-State Circuits, 2018</i> , 53, 1653-1665	5.5	8
64	Dual Receiver Coils Wireless Power Transfer System With Interleaving Switching. <i>IEEE Transactions on Power Electronics, 2018</i> , 33, 10016-10020	7.2	8
63	A Compact-Sized 9-Bit Switched-Current DAC for AMOLED Mobile Display Drivers. <i>IEEE Transactions on Circuits and Systems II: Express Briefs, 2011</i> , 58, 887-891	3.5	7
62	Transient Charge Feedforward Driver for High-Speed Current-Mode Data Driving in Active-Matrix OLED Displays. <i>IEEE Transactions on Circuits and Systems I: Regular Papers, 2010</i> , 57, 539-547	3.9	7
61	An autonomous CMOS hysteretic sensor for the detection of desorption-free DNA hybridization. <i>Biosensors and Bioelectronics, 2011</i> , 26, 4591-5	11.8	7
60	Improved Transient Current Feedforward Output Buffer for Fast and Compact Active-Matrix OLED Column Drivers. <i>IEEE Transactions on Circuits and Systems II: Express Briefs, 2009</i> , 56, 560-564	3.5	7
59	Design considerations of channel buffer amplifiers for low-power area-efficient column drivers in active-matrix LCDs. <i>IEEE Transactions on Consumer Electronics, 2008</i> , 54, 648-656	4.8	7
58	P-40: A Novel Data Driving Method and Circuits for AMOLED Displays. <i>Digest of Technical Papers SID International Symposium, 2006</i> , 37, 343	0.5	7
57	Thermal-Variation Insensitive Force-Touch Sensing System Using Transparent Piezoelectric Thin-Film. <i>IEEE Sensors Journal, 2018</i> , 18, 5863-5875	4	7
56	50.2: A Real-time TFT Compensation through Power Line Current Sensing for High-resolution AMOLED Displays. <i>Digest of Technical Papers SID International Symposium, 2014</i> , 45, 724-727	0.5	6
55	P-42: A 10 bit Gray Scale Digital-to-Analog Converter with an Interpolating Buffer Amplifier for AMLCD Column Drivers. <i>Digest of Technical Papers SID International Symposium, 2007</i> , 38, 346-349	0.5	6
54	Voltage-Clamped Class-E Inverter With Harmonic Tuning Network for Magnetron Drive. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2006</i> , 53, 1456-1460		6
53	A new soft recovery PWM quasi-resonant converter with a folding snubber network. <i>IEEE Transactions on Industrial Electronics, 2002</i> , 49, 456-461	8.9	6
52	A Time-Interleaved Resonant Voltage Mode Wireless Power Receiver With Delay-Based Tracking Loops for Implantable Medical Devices. <i>IEEE Journal of Solid-State Circuits, 2020</i> , 55, 1374-1385	5.5	6
51	High-Resolution Synthesized Magnetic Field Focusing for RF Barcode Applications. <i>IEEE Transactions on Industrial Electronics, 2018</i> , 65, 597-607	8.9	5

50	A 0.791 mm ² On-Chip Self-Aligned Comparator Controller for Boost DC-DC Converter Using Switching Noise Robust Charge-Pump. <i>IEEE Journal of Solid-State Circuits</i> , 2014 , 49, 502-512	5.5	5
49	High Area-Efficient DC-DC Converter With High Reliability Using Time-Mode Miller Compensation (TMMC). <i>IEEE Journal of Solid-State Circuits</i> , 2013 , 48, 2457-2468	5.5	5
48	Zero th -Order Control of Boost DC-DC Converter With Transient Enhancement Scheme. <i>IEEE Journal of Solid-State Circuits</i> , 2013 , 48, 760-773	5.5	5
47	Issues of single-inductor multiple-output DC-DC converters 2015 ,		5
46	A 4-W Master-Slave Switching Amplitude Modulator for Class-E1 EDGE Polar Transmitters. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2008 , 55, 484-488	3.5	5
45	An Area and Power Efficient Interpolation Scheme Using Variable Current Control for 10-Bit Data Drivers in Mobile Active-Matrix LCDs. <i>IEEE Transactions on Consumer Electronics</i> , 2019 , 65, 253-262	4.8	4
44	A 10.1 μ m ² /electrode, 0.73-mm ² /sensor High-SNR 3-D Hover Sensor Based on Enhanced Signal Refining and Fine Error Calibrating Techniques. <i>IEEE Journal of Solid-State Circuits</i> , 2018 , 53, 1079-1088	5.5	4
43	Switched inductor capacitor buck converter with >85% power efficiency in 100uA-to-300mA loads using a bang-bang zero-current detector 2018 ,		4
42	Low-ripple hysteretic-controlled monolithic buck converter with adapted switching frequency for large step-down ratio applications 2011 ,		4
41	Efficiency enhanced Single-Inductor Boost-Inverting Flyback converter with Dual Hybrid Energy transfer media and a Bifurcation Free Comparator 2010 ,		4
40	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2008 , 55, 2934-2943	3.9	4
39	A Gray-Level Dependent Pre-Emphasis Column Driver With Fast Settling for Active-Matrix LCD Applications. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2007 , 54, 1057-1061	3.5	4
38	A control IC for electronic ballast with mixed-mode excitation		4
37	SiC-Based 4 MHz 10 kW ZVS Inverter With Fast Resonance Frequency Tracking Control for High-Density Plasma Generators. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 3266-3275	7.2	4
36	A 97% high-efficiency 6 μ s fast-recovery-time buck-based step-up/down converter with embedded 1/2 and 3/2 charge-pumps for li-lon battery management 2018 ,		3
35	Auto-Scaling Overdrive Method Using Adaptive Charge Amplification for PRAM Write Performance Enhancement. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2014 , 61, 3165-3174	3.9	3
34	A Direct Fast Feedback Current Driver Using an Inverting Amplifier for High-Quality AMOLED Displays. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2012 , 59, 414-418	3.5	3
33	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2012 , 59, 2197-2209	3.9	3

32	26.2: Distinguished Student Paper: A 10-bit Compact Current DAC Architecture for Large-Size AMOLED Displays. <i>Digest of Technical Papers SID International Symposium, 2011</i> , 42, 334-337	0.5	3
31	. <i>IEEE Transactions on Consumer Electronics, 2010</i> , 56, 271-279	4.8	3
30	A fully integrated wide-band PID controller with capacitor-less compensation for step-down DC-DC converter 2011 ,		3
29	27.2: A Buffer Amplifier with Embodied 4-Bit Interpolation for 10-Bit AMLCD Column Drivers. <i>Digest of Technical Papers SID International Symposium, 2009</i> , 40, 371	0.5	3
28	Fast switching gate driver for self resonant inverters applicable to electronic ballasts. <i>Electronics Letters, 1998</i> , 34, 826	1.1	3
27	Analog-digital switching mixed mode low ripple-high efficiency Li-ion battery charger		3
26	Low-loss quasi-parallel resonant DC link inverter with advanced PWM capability. <i>International Journal of Electronics, 1996</i> , 81, 219-234	1.2	3
25	A High-Performance Fast Switching Charge Dump Assisted Class- K^{\ast} Audio Amplifier. <i>IEEE Transactions on Circuits and Systems I: Regular Papers, 2010</i> , 57, 1122-1133	3.9	2
24	Dual-Input Dual-Output energy harvesting DC-DC boost converter for Wireless Body Area Network 2011 ,		2
23	27.4: A 10-Bit Serial Integration-Type DAC Architecture for AMLCD Column Drivers. <i>Digest of Technical Papers SID International Symposium, 2009</i> , 40, 379	0.5	2
22	60.2: Low-Power Consumptive Luminance Compensation for a Digital Driving AMOLED Display using a Multiple Output Boost Converter. <i>Digest of Technical Papers SID International Symposium, 2010</i> , 41, 898	0.5	2
21	A new high-efficiency and super-fidelity analog audio amplifier with the aid of digital switching amplifier: class K amplifier		2
20	Hybrid switching amplifier using a novel two-quadrant wideband buffer for dynamic power supply applications. <i>Power Electronics Specialist Conference (PESC), IEEE, 2008</i> ,		2
19	Power-efficient series-charge parallel-discharge charge pump circuit for LED drive. <i>Power Electronics Specialist Conference (PESC), IEEE, 2008</i> ,		2
18	58.3: Area and Power Efficient 10-bit Column Driver with Interpolating DAC and Push-Pull Amplifier for AMLCDs. <i>Digest of Technical Papers SID International Symposium, 2008</i> , 39, 889	0.5	2
17	Mixed Mode Excitation and Low Cost Control IC for Electronic Ballast. <i>IEEE Transactions on Power Electronics, 2007</i> , 22, 871-880	7.2	2
16	ZVZCS full-bridge PWM DC/DC converter using a novel LCD energy-recovery snubber		2
15	A primary-side-assisted zero-voltage and zero-current switching DC-DC converter. <i>International Journal of Electronics, 2002</i> , 89, 77-89	1.2	2

14	Low loss and high speed IGBT gate driver using the reverse current limiting technique of diode recovery for a hard switching inverter. <i>International Journal of Electronics</i> , 1996 , 81, 321-336	1.2	2
13	A Single-Inductor Multiple-Output (SIMO) 0.8-V/1.8-V/12-V Step-Up/Down Converter With Low-Quiescent Current for Implantable Electroceutical SoCs. <i>IEEE Solid-State Circuits Letters</i> , 2021 , 4, 182-185	2	2
12	Hybrid driver IC for real-time TFT non-uniformity compensation of ultra high-definition AMOLED display 2015 ,		1
11	48.2: A Novel Current-Mode Driving Technique for Real-Time Image Compensation in AMOLED Displays. <i>Digest of Technical Papers SID International Symposium</i> , 2012 , 43, 647-650	0.5	1
10	6.1: A Size Efficient 10b DAC with Multipath Current Interpolation and Weighted Transconductors for the AMLCD Displays. <i>Digest of Technical Papers SID International Symposium</i> , 2010 , 41, 54	0.5	1
9	A series-parallel compensated uninterruptible power supply with sinusoidal input current and sinusoidal output voltage		1
8	High power factor correction circuit using valley charge-pumping for low cost electronic ballasts		1
7	An Accurate and Practical Core Loss Analysis for Compact High Step-Up Converters. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 8368-8376	7.2	1
6	A gamma-type current-mode digital-to-analog converter for active-matrix organic light-emitting diode display drivers. <i>Journal of Information Display</i> , 2014 , 15, 163-167	4.1	0
5	P-38: Low-Power High-Slew-Rate CMOS Buffer Amplifier for Flat Panel Display Drivers. <i>Digest of Technical Papers SID International Symposium</i> , 2006 , 37, 336	0.5	0
4	High-Speed Current-Mode Data Drivers for Amoled Displays 2012 , 313-334		
3	35.3: A 10-bit Linear R-string DAC Architecture for Mobile Full-HD AMOLED Driver ICs. <i>Digest of Technical Papers SID International Symposium</i> , 2013 , 44, 469-472	0.5	
2	6.2: A 10 Bits Modified VCC Interpolation and DVO Correction by Drain Current Injection. <i>Digest of Technical Papers SID International Symposium</i> , 2010 , 41, 58	0.5	
1	P-43: A Multi-Chip Reference Current Generating Circuit for Current-Mode Column Driver ICs. <i>Digest of Technical Papers SID International Symposium</i> , 2007 , 38, 350-352	0.5	