

# Gyu-Hyeong Cho

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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> , <b>2021</b> , 4, 182-185	2	2
120	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</i> , <b>2020</b> , 55, 1374-1385	5.5	6
119	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> , <b>2020</b> , 35, 6025-6038	7.2	15
118	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> , <b>2020</b> , 35, 3266-3275	7.2	4
117	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> , <b>2019</b> , 65, 253-262	4.8	4
116	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> , <b>2019</b> , 66, 8860-8865	8.9	10
115	An Accurate and Practical Core Loss Analysis for Compact High Step-Up Converters. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 8368-8376	7.2	1
114	A Hybrid Structure Dual-Path Step-Down Converter With 96.2% Peak Efficiency Using 250-m $\Omega$ Large-DCR Inductor. <i>IEEE Journal of Solid-State Circuits</i> , <b>2019</b> , 54, 959-967	5.5	12
113	Self-sustainable wind speed sensor system with omni-directional wind based triboelectric generator. <i>Nano Energy</i> , <b>2019</b> , 55, 115-122	17.1	23
112	A Noninverting BuckBoost Converter With State-Based Current Control for Li-ion Battery Management in Mobile Applications. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 9623-9627	8.9	9
111	Double Pile-Up Resonance Energy Harvesting Circuit for Piezoelectric and Thermoelectric Materials. <i>IEEE Journal of Solid-State Circuits</i> , <b>2018</b> , 53, 1049-1060	5.5	19
110	. <i>IEEE Journal of Solid-State Circuits</i> , <b>2018</b> , 53, 1653-1665	5.5	8
109	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> , <b>2018</b> , 33, 6994-7009	7.2	11
108	Dual Receiver Coils Wireless Power Transfer System With Interleaving Switching. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 10016-10020	7.2	8
107	A 10.1 $\mu$ W 83- $\mu$ m <sup>2</sup> /electrode, 0.73-mm <sup>2</sup> /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> , <b>2018</b> , 53, 1079-1088	5.5	4
106	A 97% high-efficiency 6 $\mu$ s fast-recovery-time buck-based step-up/down converter with embedded 1/2 and 3/2 charge-pumps for li-lon battery management <b>2018</b> ,		3
105	A 95.2% efficiency dual-path DC-DC step-up converter with continuous output current delivery and low voltage ripple <b>2018</b> ,		11

104	Fully Integrated Digitally Assisted Low-Dropout Regulator for a NAND Flash Memory System. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 388-406	7.2	9
103	High-Resolution Synthesized Magnetic Field Focusing for RF Barcode Applications. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 597-607	8.9	5
102	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> , <b>2018</b> , 33, 2815-2819	7.2	14
101	Switched inductor capacitor buck converter with >85% power efficiency in 100uA-to-300mA loads using a bang-bang zero-current detector <b>2018</b> ,		4
100	Thermal-Variation Insensitive Force-Touch Sensing System Using Transparent Piezoelectric Thin-Film. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 5863-5875	4	7
99	10.4 A hybrid inductor-based flying-capacitor-assisted step-up/step-down DC-DC converter with 96.56% efficiency <b>2017</b> ,		11
98	A Hybrid AMOLED Driver IC for Real-Time TFT Nonuniformity Compensation. <i>IEEE Journal of Solid-State Circuits</i> , <b>2016</b> , 51, 966-978	5.5	23
97	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> , <b>2016</b> , 1-1	7.2	15
96	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> , <b>2016</b> , 63, 46-57	3.9	49
95	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> , <b>2016</b> , 63, 1567-1578	3.9	11
94	. <i>IEEE Transactions on Power Electronics</i> , <b>2015</b> , 30, 6446-6455	7.2	88
93	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> , <b>2015</b> , 50, 2380-2393	5.5	11
92	Impact of contact pressure on output voltage of triboelectric nanogenerator based on deformation of interfacial structures. <i>Nano Energy</i> , <b>2015</b> , 17, 63-71	17.1	88
91	Hybrid driver IC for real-time TFT non-uniformity compensation of ultra high-definition AMOLED display <b>2015</b> ,		1
90	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> , <b>2015</b> , 50, 2825-2838	5.5	19
89	Issues of single-inductor multiple-output DC-DC converters <b>2015</b> ,		5
88	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> , <b>2015</b> , 30, 6030-6045	7.2	170
87	Gyrator-Based Analysis of Resonant Circuits in Inductive Power Transfer Systems. <i>IEEE Transactions on Power Electronics</i> , <b>2015</b> , 1-1	7.2	27

86	23.5 An energy pile-up resonance circuit extracting maximum 422% energy from piezoelectric material in a dual-source energy-harvesting interface <b>2014</b> ,		29
85	Auto-Scaling Overdrive Method Using Adaptive Charge Amplification for PRAM Write Performance Enhancement. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2014</b> , 61, 3165-3174	3.9	3
84	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> , <b>2014</b> , 61, 6710-6719	8.9	17
83	. <i>IEEE Journal of Solid-State Circuits</i> , <b>2014</b> , 49, 766-782	5.5	20
82	A DCDC Converter for a Fully Integrated PID Compensator With a Single Capacitor. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2014</b> , 61, 629-633	3.5	21
81	A 0.791 mm <sup>2</sup> 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> , <b>2014</b> , 49, 502-512	5.5	5
80	A gamma-type current-mode digital-to-analog converter for active-matrix organic light-emitting diode display drivers. <i>Journal of Information Display</i> , <b>2014</b> , 15, 163-167	4.1	0
79	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</i> , <b>2014</b> , 45, 724-727	0.5	6
78	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> , <b>2014</b> , 22, 2181-2191	2.6	23
77	A Noise-Immune High-Speed Readout Circuit for In-Cell Touch Screen Panels. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2013</b> , 60, 1800-1809	3.9	26
76	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2013</b> , 60, 3080-3089	3.9	20
75	High Area-Efficient DC-DC Converter With High Reliability Using Time-Mode Miller Compensation (TMMC). <i>IEEE Journal of Solid-State Circuits</i> , <b>2013</b> , 48, 2457-2468	5.5	5
74	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> , <b>2013</b> , 48, 541-558	5.5	16
73	Zero <sup>th</sup> -Order Control of Boost DC-DC Converter With Transient Enhancement Scheme. <i>IEEE Journal of Solid-State Circuits</i> , <b>2013</b> , 48, 760-773	5.5	5
72	Resonant Regulating Rectifiers (3R) Operating for 6.78 MHz Resonant Wireless Power Transfer (RWPT). <i>IEEE Journal of Solid-State Circuits</i> , <b>2013</b> , 48, 2989-3001	5.5	65
71	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> , <b>2013</b> , 44, 469-472	0.5	
70	A CMOS label-free DNA sensor using electrostatic induction of molecular charges. <i>Biosensors and Bioelectronics</i> , <b>2012</b> , 31, 343-8	11.8	22
69	A 40 mV Transformer-Reuse Self-Startup Boost Converter With MPPT Control for Thermoelectric Energy Harvesting. <i>IEEE Journal of Solid-State Circuits</i> , <b>2012</b> , 47, 3055-3067	5.5	139

68	Omni-directional inductive power transfer system for mobile robots using evenly displaced multiple pick-ups <b>2012</b> ,		9
67	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> , <b>2012</b> , 59, 414-418	3.5	3
66	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> , <b>2012</b> , 43, 1570-1573	0.5	16
65	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2012</b> , 59, 2197-2209	3.9	3
64	High-Speed Current-Mode Data Drivers for Amoled Displays <b>2012</b> , 313-334		
63	Static and dynamic analyses of three-phase rectifier with LC input filter by laplace phasor transformation <b>2012</b> ,		15
62	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> , <b>2012</b> , 43, 647-650	0.5	1
61	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</i> , <b>2011</b> , 42, 334-337	0.5	3
60	A Compact-Sized 9-Bit Switched-Current DAC for AMOLED Mobile Display Drivers. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2011</b> , 58, 887-891	3.5	7
59	Characterization of novel Inductive Power Transfer Systems for On-Line Electric Vehicles <b>2011</b> ,		63
58	Low-ripple hysteretic-controlled monolithic buck converter with adapted switching frequency for large step-down ratio applications <b>2011</b> ,		4
57	Dual-Input Dual-Output energy harvesting DC-DC boost converter for Wireless Body Area Network <b>2011</b> ,		2
56	A fully integrated wide-band PID controller with capacitor-less compensation for step-down DC-DC converter <b>2011</b> ,		3
55	Active EMF cancellation method for I-type pickup of On-Line Electric Vehicles <b>2011</b> ,		15
54	An autonomous CMOS hysteretic sensor for the detection of desorption-free DNA hybridization. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 4591-5	11.8	7
53	A High-Performance Fast Switching Charge Dump Assisted Class- $K^{\ast}$ Audio Amplifier. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2010</b> , 57, 1122-1133	3.9	2
52	. <i>IEEE Journal of Solid-State Circuits</i> , <b>2010</b> , 45, 1881-1895	5.5	12
51	. <i>IEEE Transactions on Consumer Electronics</i> , <b>2010</b> , 56, 271-279	4.8	3

50	Efficiency enhanced Single-Inductor Boost-Inverting Flyback converter with Dual Hybrid Energy transfer media and a Bifurcation Free Comparator <b>2010</b> ,		4
49	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</i> , <b>2010</b> , 57, 539-547	3.9	7
48	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</i> , <b>2010</b> , 41, 898	0.5	2
47	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> , <b>2010</b> , 41, 54	0.5	1
46	6.2: A 10 Bits Modified VCC Interpolation and DVO Correction by Drain Current Injection. <i>Digest of Technical Papers SID International Symposium</i> , <b>2010</b> , 41, 58	0.5	
45	One-chip electronic detection of DNA hybridization using precision impedance-based CMOS array sensor. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 26, 1373-9	11.8	30
44	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> , <b>2009</b> , 44, 509-524	5.5	62
43	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</i> , <b>2009</b> , 56, 560-564	3.5	7
42	A Synchronous Multioutput Step-Up/Down DCDC Converter With Return Current Control. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2009</b> , 56, 210-214	3.5	24
41	One-Chip Class-E Inverter Controller for Driving a Magnetron. <i>IEEE Transactions on Industrial Electronics</i> , <b>2009</b> , 56, 400-407	8.9	10
40	. <i>IEEE Journal of Solid-State Circuits</i> , <b>2009</b> , 44, 3659-3675	5.5	24
39	27.4: A 10-Bit Serial Integration-Type DAC Architecture for AMLCD Column Drivers. <i>Digest of Technical Papers SID International Symposium</i> , <b>2009</b> , 40, 379	0.5	2
38	27.2: A Buffer Amplifier with Embodied 4-Bit Interpolation for 10-Bit AMLCD Column Drivers. <i>Digest of Technical Papers SID International Symposium</i> , <b>2009</b> , 40, 371	0.5	3
37	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2008</b> , 55, 2934-2943	3.9	4
36	Design considerations of channel buffer amplifiers for low-power area-efficient column drivers in active-matrix LCDs. <i>IEEE Transactions on Consumer Electronics</i> , <b>2008</b> , 54, 648-656	4.8	7
35	Load-Independent Control of Switching DC-DC Converters With Freewheeling Current Feedback. <i>IEEE Journal of Solid-State Circuits</i> , <b>2008</b> , 43, 2798-2808	5.5	47
34	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> , <b>2008</b> , 55, 484-488	3.5	5
33	Hybrid switching amplifier using a novel two-quadrant wideband buffer for dynamic power supply applications. <i>Power Electronics Specialist Conference (PESC), IEEE</i> , <b>2008</b> ,		2

32	Power-efficient series-charge parallel-discharge charge pump circuit for LED drive. <i>Power Electronics Specialist Conference (PESC), IEEE, 2008,</i>		2
31	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, 39, 889</i>	0.5	2
30	Mixed Mode Excitation and Low Cost Control IC for Electronic Ballast. <i>IEEE Transactions on Power Electronics, 2007, 22, 871-880</i>	7.2	2
29	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, 2007, 54, 1057-1061</i>	3.5	4
28	56.4: A Cascaded-Dividing Current DAC with Fine Pitch for High-Resolution AMOLED Display Drivers. <i>Digest of Technical Papers SID International Symposium, 2007, 38, 1644-1646</i>	0.5	9
27	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, 38, 346-349</i>	0.5	6
26	P-43: A Multi-Chip Reference Current Generating Circuit for Current-Mode Column Driver ICs. <i>Digest of Technical Papers SID International Symposium, 2007, 38, 350-352</i>	0.5	
25	A Single-Inductor Switching DCDC Converter With Five Outputs and Ordered Power-Distributive Control. <i>IEEE Journal of Solid-State Circuits, 2007, 42, 2706-2714</i>	5.5	134
24	A 2 W CMOS Hybrid Switching Amplitude Modulator for EDGE Polar Transmitters. <i>IEEE Journal of Solid-State Circuits, 2007, 42, 2666-2676</i>	5.5	57
23	Voltage-Clamped Class-E Inverter With Harmonic Tuning Network for Magnetron Drive. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2006, 53, 1456-1460</i>		6
22	P-38: Low-Power High-Slew-Rate CMOS Buffer Amplifier for Flat Panel Display Drivers. <i>Digest of Technical Papers SID International Symposium, 2006, 37, 336</i>	0.5	0
21	P-40: A Novel Data Driving Method and Circuits for AMOLED Displays. <i>Digest of Technical Papers SID International Symposium, 2006, 37, 343</i>	0.5	7
20	P-45: A Fast Driving Circuit for AMOLED Displays Using Current Feedback. <i>Digest of Technical Papers SID International Symposium, 2006, 37, 363</i>	0.5	9
19	A 14-b linear capacitor self-trimming pipelined ADC. <i>IEEE Journal of Solid-State Circuits, 2004, 39, 2046-2051</i>	9.5	19
18	Class D audio power amplifier with fine hysteresis control. <i>Electronics Letters, 2002, 38, 1302</i>	1.1	12
17	A new soft recovery PWM quasi-resonant converter with a folding snubber network. <i>IEEE Transactions on Industrial Electronics, 2002, 49, 456-461</i>	8.9	6
16	A primary-side-assisted zero-voltage and zero-current switching DC-DC converter. <i>International Journal of Electronics, 2002, 89, 77-89</i>	1.2	2
15	A zero-voltage and zero-current switching full bridge DC-DC converter with transformer isolation. <i>IEEE Transactions on Power Electronics, 2001, 16, 573-580</i>	7.2	69

14	Zero-voltage and zero-current switching full bridge DC-DC converter for arc welding machines. <i>Electronics Letters</i> , <b>1999</b> , 35, 1043	1.1	14
13	Fast switching gate driver for self resonant inverters applicable to electronic ballasts. <i>Electronics Letters</i> , <b>1998</b> , 34, 826	1.1	3
12	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> , <b>1998</b> , 13, 323-336	7.2	29
11	Low-loss quasi-parallel resonant DC link inverter with advanced PWM capability. <i>International Journal of Electronics</i> , <b>1996</b> , 81, 219-234	1.2	3
10	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> , <b>1996</b> , 81, 321-336	1.2	2
9	. <i>IEEE Transactions on Industrial Electronics</i> , <b>1992</b> , 39, 444-452	8.9	10
8	. <i>IEEE Transactions on Industry Applications</i> , <b>1991</b> , 27, 52-62	4.3	12
7	A series-parallel compensated uninterruptible power supply with sinusoidal input current and sinusoidal output voltage		1
6	A new high-efficiency and super-fidelity analog audio amplifier with the aid of digital switching amplifier: class K amplifier		2
5	ZVZCS full-bridge PWM DC/DC converter using a novel LCD energy-recovery snubber		2
4	A control IC for electronic ballast with mixed-mode excitation		4
3	Analog-digital switching mixed mode low ripple-high efficiency Li-ion battery charger		3
2	High power factor correction circuit using valley charge-pumping for low cost electronic ballasts		1
1	An integrated CMOS DC-DC converter for battery-operated systems		9