

Ramesh Kumar Pokharel

List of Publications by Year in descending order

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142
papers

1,320
citations

430442

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docs citations

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times ranked

765
citing authors

#	ARTICLE	IF	CITATIONS
1	Compact and Efficient WPT System to Embedded Receiver in Biological Tissues Using Cooperative DGS Resonators. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 869-873.	2.2	5
2	A W-Band Compact Substrate Integrated Waveguide Bandpass Filter With Defected Ground Structure in CMOS Technology. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 889-893.	2.2	10
3	A W -Band 0.01 mm^2 Cavity Resonator Employing Slot-Loaded Shielded Folded Ridged Quarter-Mode in CMOS Technology. IEEE Microwave and Wireless Components Letters, 2022, 32, 113-116.	2.0	7
4	On-Chip Millimeter-Wave DGS Based Bandstop Filter in $0.18\text{-}\mu\text{m}$ CMOS Process. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 2732-2736.	2.2	5
5	Design of low phase noise $\text{K}\hat{\text{e}}\text{band}$ VCO using high quality factor resonator in $0.18 \mu\text{m}$ CMOS technology. International Journal of RF and Microwave Computer-Aided Engineering, 2022, 32, .	0.8	2
6	Design of 50-GHz Low Phase Noise VCO Employing Two-Branched DGS Resonator in $0.18\text{-}\mu\text{m}$ CMOS Technology. IEEE Microwave and Wireless Components Letters, 2022, , 1-4.	2.0	0
7	Ku -Band Low Phase Noise VCO Using High-Quality Factor Transformer in $0.18\text{-}\mu\text{m}$ CMOS Technology. IEEE Microwave and Wireless Components Letters, 2022, 32, 1207-1210.	2.0	3
8	Design Methodology of Wide Tuning Range DGS-based VCO for K-band Applications in $0.18\text{-}\mu\text{m}$ CMOS Technology. , 2022, , .		1
9	Stacked Metasurfaces for Misalignment Improvement of WPT System Using Spiral Resonators. , 2022, , .		2
10	A 100GHz Bandpass Filter Employing Shielded Folded Ridged Quarter-Mode SIW Resonator in CMOS Technology. , 2022, , .		0
11	Design of Compact and High Q-Factor W-Band Cavity in $0.18\text{-}\mu\text{m}$ CMOS Technology. , 2022, , .		1
12	Dual-Band VCO Using High Quality Factor Two Orthogonally Located Inductors in $0.18\text{-}\mu\text{m}$ CMOS Technology. IEEE Microwave and Wireless Components Letters, 2022, , 1-4.	2.0	1
13	High PAE CMOS Power Amplifier With 44.4% FBW Using Superimposed Dual-Band Configuration and DGS Inductors. IEEE Microwave and Wireless Components Letters, 2022, 32, 1423-1426.	2.0	5
14	Simultaneous Wireless Power and Information Transfer Using Coupled Co-Existing Defected Ground Structure Resonators. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 632-636.	2.2	11
15	Wireless power transfer system rigid to tissue characteristics using metamaterial inspired geometry for biomedical implant applications. Scientific Reports, 2021, 11, 5868.	1.6	38
16	X -Band Feedback Type Miniaturized Oscillator Design With Low Phase Noise Based on Eighth Mode SIW Bandpass Filter. IEEE Microwave and Wireless Components Letters, 2021, 31, 485-488.	2.0	16
17	Design of Three Layers-Stacked Metasurface and Its Application to Compact Dual-band WPT System. , 2021, , .		1
18	Design of Low Phase Noise VCO Considering C/L Ratio of LC Resonator in $0.18\text{-}\mu\text{m}$ CMOS Technology. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 3513-3517.	2.2	6

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19	A Multiband VCO Using a Switched Series Resonance for Fine Frequency Tuning Sensitivity and Phase Noise Improvement. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2021, 29, 2163-2171.	2.1	5
20	Analysis and design of diode physical limit bandwidth efficient rectification circuit for maximum flat efficiency, wide impedance, and efficiency bandwidths. Scientific Reports, 2021, 11, 19941.	1.6	10
21	Efficient and Compact Dual-band Wireless Power Transfer System through Biological Tissues Using Dual-Reference DGS Resonators. , 2021, , .		6
22	A multimode metamaterial for a compact and robust dualband wireless power transfer system. Scientific Reports, 2021, 11, 22125.	1.6	8
23	Analysis and Implementation of High-Q CT Inductor for Compact and Wide- Tuning Range Ku-Band VCO. IEEE Microwave and Wireless Components Letters, 2020, 30, 802-805.	2.0	15
24	Improvement of Magnetic Field for Near-Field WPT System Using Two Concentric Open-Loop Spiral Resonators. IEEE Microwave and Wireless Components Letters, 2020, 30, 993-996.	2.0	9
25	Dual-Band CPW rectenna for low input power energy harvesting applications. IET Circuits, Devices and Systems, 2020, 14, 892-897.	0.9	10
26	High Isolation Simultaneous Wireless Power and Information Transfer System Using Coexisting DGS resonators and Figure-8 Inductors. , 2020, , .		4
27	Utilization of Multi-Resonant Defected Ground Structure Resonators in the Oscillator Feedback for Phase Noise Reduction of K-Band VCOs in 0.18- μm CMOS Technology. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 1115-1125.	3.5	14
28	Dual-Band Defected Ground Structure Resonators Wireless Power Transfer System Connected to Voltage-Doubler Circuit. , 2019, , .		0
29	Separation-Misalignment Insensitive WPT System Using Two-Plane Printed Inductors. IEEE Microwave and Wireless Components Letters, 2019, 29, 683-686.	2.0	21
30	45% RF-to-DC Conversion Efficiency Wireless Power Transfer System Through Biological Tissues Using Complex Conjugate Impedance Matching Taking Account of Tissue's Properties. , 2019, , .		4
31	Triple-Band Near-Field Wireless Power Transfer System Using Coupled Defected Ground Structure Band Stop Filters. , 2019, , .		11
32	Independent Matching Dual-Band Compact Quarter-Wave Half-Slot Antenna for Millimeter-Wave Applications. IEEE Access, 2019, 7, 130782-130790.	2.6	21
33	Analysis and Application of Dual Series Resonances for Low Phase Noise K-Band VCO Design in 0.18- $\frac{1}{4}\mu\text{m}$ CMOS Technology. , 2019, , .		3
34	Wireless Power Transfer Using DGSs. Energy Systems in Electrical Engineering, 2019, , 33-72.	0.5	1
35	Compact Size Wireless Power Transfer Using Defected Ground Structures. Energy Systems in Electrical Engineering, 2019, , .	0.5	3
36	Experimental Study of the Effect of Interconnects on Phase Noise of K-Band VCO in 0.18 μm CMOS Technology. , 2019, , .		0

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37	A ~ 192.7 -dBc/Hz FoM K_{U} -Band VCO Using a DGS Resonator With a High-Band Transmission Pole in 0.18- μ m CMOS Technology. IEEE Microwave and Wireless Components Letters, 2019, 29, 814-817.	2.0	13
38	High Efficiency and Small Group Delay Variations 0.18- μ m CMOS UWB Power Amplifier. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 592-596.	2.2	20
39	Design and Implementation of Dual-Mode Inductors for Dual-Band Wireless Power Transfer Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 1287-1291.	2.2	16
40	Design Methods. Energy Systems in Electrical Engineering, 2019, , 73-86.	0.5	1
41	Design of compact frequency agile filter-antenna using reconfigurable ring resonator bandpass filter for future cognitive radios. International Journal of Microwave and Wireless Technologies, 2018, 10, 487-496.	1.5	8
42	A K-Band VCO Employing High Active Q-factor Defected Ground Structure Resonator in 0.18 μ m CMOS Technology. , 2018, , .		7
43	Dual Band VCO Based on a High-Quality Factor Switched Interdigital Resonator for the Ku Band Using 180-nm CMOS Technology. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1874-1878.	2.2	23
44	22-GHz-Band Oscillator Using Integrated H-Shape Defected Ground Structure Resonator in 0.18- μ m CMOS Technology. IEEE Microwave and Wireless Components Letters, 2018, 28, 233-235.	2.0	22
45	Dual-band Rectenna Using Voltage Doubler Rectifier and Four-Section Matching Network. , 2018, , .		18
46	High FOM Dual Band Wireless Power Transfer using Bow-tie Defected Ground Structure Resonators. , 2018, , .		8
47	Compact Dual-Band Wireless Power Transfer Using Overlapped Single Loop Defected Ground Structure. , 2018, , .		10
48	70 % Improvement in Q-Factor of Spiral Inductor and its Application in Switched K-Band VCO Using 0.18 μ m CMOS Technology. , 2018, , .		5
49	Design of Multi-layers DGS Resonator for Phase Noise Improvement of K-Band VCOs in 0.18 μ m CMOS Technology. , 2018, , .		1
50	Design of Low-Loss Coplanar Transmission Lines Using Distributed Loading for Millimeter-Wave Power Divider/Combiner Applications in 0.18- μ m CMOS Technology. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 5221-5229.	2.9	17
51	Dual Resonance Circuits by Defected Ground Structure Resonators for Low Phase Noise K-Band CMOS VCO. , 2018, , .		0
52	Compact 24GHz half-slot antenna for energy combining. , 2018, , .		0
53	Ultracompact CMOS 60-GHz Tapped-Line Combine BPF With Two Transmission Zeros Using Defected Ground Structures. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2018, 8, 1642-1649.	1.4	10
54	Design Approach for Efficient Wireless Power Transfer Systems During Lateral Misalignment. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 4170-4177.	2.9	27

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55	A CMOS Ultrawideband Pulse Generator for 3–5 GHz Applications. IEEE Microwave and Wireless Components Letters, 2017, 27, 584-586.	2.0	9
56	Dual-Band Defected Ground Structures Wireless Power Transfer System With Independent External and Inter-Resonator Coupling. IEEE Transactions on Circuits and Systems II: Express Briefs, 2017, 64, 1372-1376.	2.2	43
57	Ultracompact 60-GHz CMOS BPF Employing Broadside-Coupled Open-Loop Resonators. IEEE Microwave and Wireless Components Letters, 2017, 27, 818-820.	2.0	37
58	Design and Application of Virtual Inductance of Square-Shaped Defected Ground Structure in 0.18- μm CMOS Technology. IEEE Journal of the Electron Devices Society, 2017, 5, 299-305.	1.2	25
59	A Novel Technique for Compact Size Wireless Power Transfer Applications Using Defected Ground Structures. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 591-599.	2.9	70
60	Design and fabrication of a Bi-directional mode-division multiplexer (BMDM) for optical interconnects. , 2017, , .		1
61	Study of phase noise improvement of K-band VCO using additional series resonance realized by DGS resonator on CMOS technology. , 2017, , .		2
62	Analysis of near field wireless power transfer using bow-tie defected ground structure. , 2017, , .		4
63	Ku-band oscillator using integrated defected ground structure resonator in 0.18 μm CMOS technology. , 2017, , .		4
64	Class-C architecture for cross-coupled FBAR oscillator to further improve phase noise. IEICE Electronics Express, 2017, 14, 20170056-20170056.	0.3	1
65	A 1.9GHz Low-Phase-Noise Complementary Cross-Coupled FBAR-VCO without Additional Voltage Headroom in 0.18 μm CMOS Technology. IEICE Transactions on Electronics, 2017, E100.C, 363-369.	0.3	1
66	Miniaturized low loss 60 GHz CMOS mixed coupled BPF with patterned ground shield. Microwave and Optical Technology Letters, 2016, 58, 697-699.	0.9	2
67	A high-efficiency good linearity 21 to 26.5 GHz fully integrated power amplifier using 0.18 μm CMOS technology. , 2016, , .		2
68	A new compact wireless power transfer system using C-shaped printed resonators. , 2016, , .		8
69	K band low power voltage controlled oscillator using 180 nm CMOS technology with a new high quality inductor. , 2016, , .		9
70	Low phase noise high switching ring VCO with quadrature output. , 2016, , .		4
71	Simple design approach for asymmetric resonant inductive coupled WPT systems using J-inverters. , 2016, , .		11
72	Compact frequency tunable filtenna with wide continuous tuning range using capacitively loaded folded arms open loop resonator for interweave cognitive radio applications. , 2016, , .		1

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73	New compact tunable filter-antenna using varactor loaded ring resonator for cognitive radio front end system. , 2016, , .		2
74	Compact Wireless Power Transfer System Using Defected Ground Bandstop Filters. IEEE Microwave and Wireless Components Letters, 2016, 26, 849-851.	2.0	25
75	Design of miniaturized reconfigurable slot antenna using varactor diodes for cognitive radio systems. , 2016, , .		6
76	Compact Size On-Chip 60 GHz H-Shaped Resonator BPF. IEEE Microwave and Wireless Components Letters, 2016, 26, 681-683.	2.0	44
77	Asymmetric wireless power transfer systems using coupled DGS resonators. IEICE Electronics Express, 2016, 13, 20160591-20160591.	0.3	15
78	Radiation performance enhancement of a 60 GHz CMOS Quasi-Yagi antenna. , 2016, , .		3
79	Compact frequency reconfigurable filtennas using varactor loaded <i>T</i> shaped and <i>H</i> shaped resonators for cognitive radio applications. IET Microwaves, Antennas and Propagation, 2016, 10, 991-1001.	0.7	32
80	A 60-GHz on-chip tapered slot Vivaldi antenna with improved radiation characteristics. , 2016, , .		9
81	Compact coplanar stripline-fed folded strip dipole antenna for millimeter energy combining. , 2016, , .		3
82	Design of frequency tunable CPW-Fed UWB antenna using varactor diodes for cognitive radio and future software defined radio. , 2016, , .		2
83	Compact Modeling of Phase-Locked Loop Frequency Synthesizer for Transient Phase Noise and Jitter Simulation. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2016, 35, 166-170.	1.9	6
84	Performance Analysis of Multicode OCDM Networks Supporting Elastic Transmission With QoS Differentiation. IEEE Transactions on Communications, 2016, 64, 741-752.	4.9	10
85	Compact Mode-Division De(multiplexer) with Anti-Reflection Grating for Optical Interconnects. , 2016, , .		1
86	Performance enhancement of 0.18 μ m CMOS on chip bandpass filters using H-shaped parasitic element. , 2015, , .		1
87	Comparative design of extremely low phase noise oscillator in Class-B and Class-C by integrating film bulk acoustic resonator (FBAR) on CMOS wafer for low power applications. , 2015, , .		2
88	Novel compact tunable bandpass filter using capacitively loaded H-shaped resonator. , 2015, , .		0
89	Design of class-C FBAR-based oscillator for low power applications. , 2015, , .		6
90	A high efficiency 3 \times 7 GHz class AB CMOS power amplifier for WBAN applications. , 2015, , .		3

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91	Miniaturized 60 GHz triangular CMOS Antenna-on-Chip using asymmetric artificial magnetic conductor. , 2015, , .		4
92	Strong resonant coupling for short-range wireless power transfer applications using defected ground structures. , 2015, , .		15
93	5.0 to 10.6 GHz 0.18 μm CMOS power amplifier with excellent group delay for UWB applications. , 2015, , .		8
94	Novel compact UWB monopole RDRA for cognitive radio spectrum sensing applications. , 2014, , .		3
95	A 1.9 GHz low phase noise complementary cross-coupled FBAR-VCO in 0.18 μm CMOS technology. , 2014, , .		6
96	Small size 60 GHz CMOS Antenna-on-Chip: Gain and efficiency enhancement using asymmetric Artificial Magnetic Conductor. , 2014, , .		13
97	High efficient impedance matching circuit of power amplifier combined with antenna. , 2014, , .		3
98	A design methodology for SAR ADC optimal redundancy bit. IEICE Electronics Express, 2014, 11, 20140218-20140218.	0.3	1
99	A 10-bit 50MS/s 350 μW Small Die Area Capacitive Digital-to-Analog Converter for Bluetooth Applications. IEJ Transactions on Electronics, Information and Systems, 2014, 134, 328-329.	0.1	2
100	A low power 2.4 GHz LNA operated in subthreshold region. , 2014, , .		0
101	A highly attenuative CMOS LNA at 5-6 GHz using negative G_{M_M} circuit for UWB applications. Microwave and Optical Technology Letters, 2013, 55, 894-899.	0.9	2
102	A design technique for a high-speed SAR ADC using non-binary search algorithm and redundancy. , 2013, , .		5
103	Energy Harvesting Circuit on a One-Sided Directional Flexible Antenna. IEEE Microwave and Wireless Components Letters, 2013, 23, 164-166.	2.0	95
104	A CMOS class-E power amplifier of 40-% PAE at 5 GHz for constant envelope modulation system. , 2013, , .		18
105	Development of a rectenna for batteryless electronic paper. , 2013, , .		4
106	Compact size high gain AoC using rectangular AMC in CMOS for 60 GHz millimeter wave applications. , 2013, , .		8
107	The methods of maintaining Low frequency stability in FBAR based cross-coupled VCO design. IEICE Electronics Express, 2013, 10, 20130296-20130296.	0.3	3
108	A low phase noise FBAR based multiband VCO design. IEICE Electronics Express, 2013, 10, 20130425-20130425.	0.3	2

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109	Low Phase Noise 14-Bit Digitally Controlled CMOS Quadrature Ring Oscillator. IEICE Transactions on Electronics, 2013, E96.C, 262-269.	0.3	0
110	Design and analysis of a compact size planar antenna for UWB applications. , 2012, , .		2
111	Monolithic fabrication of film bulk acoustic resonators above integrated circuit by adhesive-bonding-based film transfer. , 2012, , .		14
112	Development of 2.4GHz one-sided directional slot antenna with 2-stage bandpass filter. , 2012, , .		0
113	A novel high-precision DAC utilizing tribonacci series. IEICE Electronics Express, 2012, 9, 515-521.	0.3	1
114	A small die area and high linearity 10-bit capacitive three-level DAC. , 2012, , .		3
115	Improving linearity of a 5.2 GHz low power mixer in 0.18µm CMOS process by using Derivative Superposition method. , 2012, , .		0
116	Performance optimization of a 60 GHz Antenna-on-Chip over an Artificial Magnetic Conductor. , 2012, , .		12
117	A 5-GHz fully integrated CMOS class-E power amplifier using self-biasing technique with cascaded class-D drivers. , 2012, , .		12
118	Feedforward charge injection technique in a continuous time delta-sigma modulator. , 2012, , .		0
119	Development of low phase noise digitally controlled CMOS ring oscillator with quadrature outputs. Microwave and Optical Technology Letters, 2012, 54, 1479-1483.	0.9	1
120	Low Group Delay 3.1–10.6 GHz CMOS Power Amplifier for UWB Applications. IEEE Microwave and Wireless Components Letters, 2012, 22, 41-43.	2.0	36
121	3.6 GHz highly monotonic digitally controlled oscillator for all-digital phase locked loop. , 2011, , .		0
122	Development of 900MHz band one-sided directional antenna on flexible substrate. , 2011, , .		3
123	Digitally controlled ring oscillator using fraction-based series optimization for inductorless reconfigurable all-digital PLL. , 2011, , .		3
124	A low-glitch and small-logic-area Fibonacci Series DAC. , 2011, , .		4
125	A third order delta-sigma modulator employing shared opamp technique for WCDMA on 0.18µm CMOS. IEICE Electronics Express, 2011, 8, 1204-1209.	0.3	5
126	A compact low power ultra wideband impulse generator on 0.18µm CMOS technology. Microwave and Optical Technology Letters, 2011, 53, 1128-1131.	0.9	0

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127	Low-Phase-Noise, High Switching Speed Digitally Controlled Ring Oscillator in 0.18 μm Complementary Metal Oxide Semiconductor. Japanese Journal of Applied Physics, 2011, 50, 04DE10.	0.8	3
128	Development of dual band miniaturized slot antenna with 2-stage bandpass filter. , 2011, , .		10
129	Design and evaluation of a \sim 117 dBc/Hz phase noise voltage-controlled oscillator using on-chip CPW resonator for 5 GHz-band WLAN. Microwave and Optical Technology Letters, 2010, 52, 763-766.	0.9	2
130	Development of electrically small antenna with impedance matching circuit for 2.4GHz band sensor node. , 2010, , .		0
131	Design of high linearity low flicker noise 5.2 GHz down-conversion mixer for direct conversion receiver. , 2010, , .		2
132	Design of the low-noise LC oscillator with the digital frequency tuning based on the composite resonator. , 2010, , .		0
133	An UWB bandpass filter with large notch suppression. , 2009, , .		0
134	Low Noise Wide Tuning Range Quadrature Ring Oscillator for Multi-Standard Transceiver. IEEE Microwave and Wireless Components Letters, 2009, 19, 470-472.	2.0	99
135	Development of an electrically small one-sided directional antenna with matching circuit. , 2008, , .		13
136	Design of digitally controlled LC oscillator with wide tuning range in 0.18 μm TSMC CMOS technology. , 2008, , .		3
137	Applications of Time-Domain Numerical Electromagnetic Code to Lightning Surge Analysis. IEEE Transactions on Electromagnetic Compatibility, 2007, 49, 623-631.	1.4	21
138	Development of a Single-chip Power Amplifier with Transmission Line Based Impedance Matching Circuit. , 2006, , .		0
139	Improvement of spurious responses of coupled-line BPFs using interdigital-type resonators. Microwave and Optical Technology Letters, 2005, 44, 126-130.	0.9	1
140	Out-of-band improvement by BPFs with multiple attenuation poles using a condition of variable coupling length of a parallel partially coupled-line section. Microwave and Optical Technology Letters, 2005, 47, 4-9.	0.9	0
141	WPT, Recent Techniques for Improving System Efficiency. , 0, , .		7
142	Frequency-reconfigurable dielectric resonator antenna using metasurface. International Journal of Microwave and Wireless Technologies, 0, , 1-7.	1.5	2