

# Ramesh Kumar Pokharel

## List of Publications by Year in descending order

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142  
papers

1,320  
citations

430442

18  
h-index

476904

29  
g-index

145  
all docs

145  
docs citations

145  
times ranked

765  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Energy Harvesting Circuit on a One-Sided Directional Flexible Antenna. IEEE Microwave and Wireless Components Letters, 2013, 23, 164-166.	2.0	95
3	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
4	Compact Size On-Chip 60 GHz H-Shaped Resonator BPF. IEEE Microwave and Wireless Components Letters, 2016, 26, 681-683.	2.0	44
5	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
6	Wireless power transfer system rigid to tissue characteristics using metamaterial inspired geometry for biomedical implant applications. Scientific Reports, 2021, 11, 5868.	1.6	38
7	Ultracompact 60-GHz CMOS BPF Employing Broadside-Coupled Open-Loop Resonators. IEEE Microwave and Wireless Components Letters, 2017, 27, 818-820.	2.0	37
8	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
9	Compact frequency reconfigurable filtennas using varactor loaded $T$ -shaped and $H$ -shaped resonators for cognitive radio applications. IET Microwaves, Antennas and Propagation, 2016, 10, 991-1001.	0.7	32
10	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
11	Compact Wireless Power Transfer System Using Defected Ground Bandstop Filters. IEEE Microwave and Wireless Components Letters, 2016, 26, 849-851.	2.0	25
12	Design and Application of Virtual Inductance of Square-Shaped Defected Ground Structure in 0.18- $\mu\text{m}$ CMOS Technology. IEEE Journal of the Electron Devices Society, 2017, 5, 299-305.	1.2	25
13	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
14	22-GHz-Band Oscillator Using Integrated H-Shape Defected Ground Structure Resonator in 0.18- $\mu\text{m}$ CMOS Technology. IEEE Microwave and Wireless Components Letters, 2018, 28, 233-235.	2.0	22
15	Applications of Time-Domain Numerical Electromagnetic Code to Lightning Surge Analysis. IEEE Transactions on Electromagnetic Compatibility, 2007, 49, 623-631.	1.4	21
16	Separation-Misalignment Insensitive WPT System Using Two-Plane Printed Inductors. IEEE Microwave and Wireless Components Letters, 2019, 29, 683-686.	2.0	21
17	Independent Matching Dual-Band Compact Quarter-Wave Half-Slot Antenna for Millimeter-Wave Applications. IEEE Access, 2019, 7, 130782-130790.	2.6	21
18	High Efficiency and Small Group Delay Variations 0.18- $\mu\text{m}$ CMOS UWB Power Amplifier. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 592-596.	2.2	20

#	ARTICLE	IF	CITATIONS
19	A CMOS class-E power amplifier of 40-% PAE at 5 GHz for constant envelope modulation system. , 2013, , .		18
20	Dual-band Rectenna Using Voltage Doubler Rectifier and Four-Section Matching Network. , 2018, , .		18
21	Design of Low-Loss Coplanar Transmission Lines Using Distributed Loading for Millimeter-Wave Power Divider/Combiner Applications in $0.18\text{-}\mu\text{m}$ CMOS Technology. IEEE Transactions on Microwave Theory and Techniques. 2018. 66. 5221-5229.	2.9	17
22	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
23	$X$ -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
24	Strong resonant coupling for short-range wireless power transfer applications using defected ground structures. , 2015, , .		15
25	Asymmetric wireless power transfer systems using coupled DGS resonators. IEICE Electronics Express, 2016, 13, 20160591-20160591.	0.3	15
26	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
27	Monolithic fabrication of film bulk acoustic resonators above integrated circuit by adhesive-bonding-based film transfer. , 2012, , .		14
28	Utilization of Multi-Resonant Defected Ground Structure Resonators in the Oscillator Feedback for Phase Noise Reduction of K-Band VCOs in $0.18\text{-}\mu\text{m}$ CMOS Technology. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 1115-1125.	3.5	14
29	Development of an electrically small one-sided directional antenna with matching circuit. , 2008, , .		13
30	Small size 60 GHz CMOS Antenna-on-Chip: Gain and efficiency enhancement using asymmetric Artificial Magnetic Conductor. , 2014, , .		13
31	A $\sim 192.7\text{-dBc/Hz}$ FoM $K_{U}$ -Band VCO Using a DGS Resonator With a High-Band Transmission Pole in $0.18\text{-}\mu\text{m}$ CMOS Technology. IEEE Microwave and Wireless Components Letters, 2019, 29, 814-817.	2.0	13
32	Performance optimization of a 60 GHz Antenna-on-Chip over an Artificial Magnetic Conductor. , 2012, , .		12
33	A 5-GHz fully integrated CMOS class-E power amplifier using self-biasing technique with cascaded class-D drivers. , 2012, , .		12
34	Simple design approach for asymmetric resonant inductive coupled WPT systems using J-inverters. , 2016, , .		11
35	Triple-Band Near-Field Wireless Power Transfer System Using Coupled Defected Ground Structure Band Stop Filters. , 2019, , .		11
36	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

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37	Development of dual band miniaturized slot antenna with 2-stage bandpass filter. , 2011, , .		10
38	Performance Analysis of Multicode OCDM Networks Supporting Elastic Transmission With QoS Differentiation. IEEE Transactions on Communications, 2016, 64, 741-752.	4.9	10
39	Compact Dual-Band Wireless Power Transfer Using Overlapped Single Loop Defected Ground Structure. , 2018, , .		10
40	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
41	Dual-band CPW rectenna for low input power energy harvesting applications. IET Circuits, Devices and Systems, 2020, 14, 892-897.	0.9	10
42	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
43	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
44	K band low power voltage controlled oscillator using 180 nm CMOS technology with a new high quality inductor. , 2016, , .		9
45	A 60-GHz on-chip tapered slot Vivaldi antenna with improved radiation characteristics. , 2016, , .		9
46	A CMOS Ultrawideband Pulse Generator for 3-5 GHz Applications. IEEE Microwave and Wireless Components Letters, 2017, 27, 584-586.	2.0	9
47	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
48	Compact size high gain AoC using rectangular AMC in CMOS for 60 GHz millimeter wave applications. , 2013, , .		8
49	5.0 to 10.6 GHz 0.18 $\mu\text{m}$ CMOS power amplifier with excellent group delay for UWB applications. , 2015, , .		8
50	A new compact wireless power transfer system using C-shaped printed resonators. , 2016, , .		8
51	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
52	High FOM Dual Band Wireless Power Transfer using Bow-tie Defected Ground Structure Resonators. , 2018, , .		8
53	A multimode metamaterial for a compact and robust dualband wireless power transfer system. Scientific Reports, 2021, 11, 22125.	1.6	8
54	A K-Band VCO Employing High Active Q-factor Defected Ground Structure Resonator in 0.18 $\mu\text{m}$ CMOS Technology. , 2018, , .		7

#	ARTICLE	IF	CITATIONS
55	WPT, Recent Techniques for Improving System Efficiency. , 0, , .		7
56	A <i>W</i> -Band 0.01 mm <sup>2</sup> 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
57	A 1.9 GHz low phase noise complementary cross-coupled FBAR-VCO in 0.18 $\mu$ m CMOS technology. , 2014, , .		6
58	Design of class-C FBAR-based oscillator for low power applications. , 2015, , .		6
59	Design of miniaturized reconfigurable slot antenna using varactor diodes for cognitive radio systems. , 2016, , .		6
60	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
61	Design of Low Phase Noise VCO Considering C/L Ratio of LC Resonator in 0.18- $\mu$ m CMOS Technology. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 3513-3517.	2.2	6
62	Efficient and Compact Dual-band Wireless Power Transfer System through Biological Tissues Using Dual-Reference DGS Resonators. , 2021, , .		6
63	A third order delta-sigma modulator employing shared opamp technique for WCDMA on 0.18 $\mu$ m CMOS. IEICE Electronics Express, 2011, 8, 1204-1209.	0.3	5
64	A design technique for a high-speed SAR ADC using non-binary search algorithm and redundancy. , 2013, , .		5
65	70 % Improvement in Q-Factor of Spiral Inductor and its Application in Switched K-Band VCO Using 0.18 $\mu$ m CMOS Technology. , 2018, , .		5
66	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
67	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
68	On-Chip Millimeter-Wave DGS Based Bandstop Filter in 0.18- $\mu$ m CMOS Process. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 2732-2736.	2.2	5
69	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
70	A low-glitch and small-logic-area Fibonacci Series DAC. , 2011, , .		4
71	Development of a rectenna for batteryless electronic paper. , 2013, , .		4
72	Miniaturized 60 GHz triangular CMOS Antenna-on-Chip using asymmetric artificial magnetic conductor. , 2015, , .		4

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73	Low phase noise high switching ring VCO with quadrature output. , 2016, , .		4
74	Analysis of near field wireless power transfer using bow-tie defected ground structure. , 2017, , .		4
75	Ku-band oscillator using integrated defected ground structure resonator in 0.18 $\mu$ m CMOS technology. , 2017, , .		4
76	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
77	High Isolation Simultaneous Wireless Power and Information Transfer System Using Coexisting DGS resonators and Figure-8 Inductors. , 2020, , .		4
78	Design of digitally controlled LC oscillator with wide tuning range in 0.18 $\mu$ m TSMC CMOS technology. , 2008, , .		3
79	Development of 900MHz band one-sided directional antenna on flexible substrate. , 2011, , .		3
80	Digitally controlled ring oscillator using fraction-based series optimization for inductorless reconfigurable all-digital PLL. , 2011, , .		3
81	Low-Phase-Noise, High Switching Speed Digitally Controlled Ring Oscillator in 0.18 $\mu$ m Complementary Metal Oxide Semiconductor. Japanese Journal of Applied Physics, 2011, 50, 04DE10.	0.8	3
82	A small die area and high linearity 10-bit capacitive three-level DAC. , 2012, , .		3
83	The methods of maintaining Low frequency stability in FBAR based cross-coupled VCO design. IEICE Electronics Express, 2013, 10, 20130296-20130296.	0.3	3
84	Novel compact UWB monopole RDRA for cognitive radio spectrum sensing applications. , 2014, , .		3
85	High efficient impedance matching circuit of power amplifier combined with antenna. , 2014, , .		3
86	A high efficiency 3 $\mu$ W class AB CMOS power amplifier for WBAN applications. , 2015, , .		3
87	Radiation performance enhancement of a 60 GHz CMOS Quasi-Yagi antenna. , 2016, , .		3
88	Compact coplanar stripline-fed folded strip dipole antenna for millimeter energy combining. , 2016, , .		3
89	Analysis and Application of Dual Series Resonances for Low Phase Noise K-Band VCO Design in 0.18- $\mu$ m CMOS Technology. , 2019, , .		3
90	Compact Size Wireless Power Transfer Using Defected Ground Structures. Energy Systems in Electrical Engineering, 2019, , .	0.5	3

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91	$\lambda/4$ -Band Low Phase Noise VCO Using High-Quality Factor Transformer in 0.18- $\lambda/4$ m CMOS Technology. IEEE Microwave and Wireless Components Letters, 2022, 32, 1207-1210.	2.0	3
92	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
93	Design of high linearity low flicker noise 5.2 GHz down-conversion mixer for direct conversion receiver. , 2010, , .		2
94	Design and analysis of a compact size planar antenna for UWB applications. , 2012, , .		2
95	A highly attenuative CMOS LNA at 5 $\times$ 6 GHz using negative $G_{M<sub>M</sub>}$ circuit for UWB applications. Microwave and Optical Technology Letters, 2013, 55, 894-899.	0.9	2
96	A low phase noise FBAR based multiband VCO design. IEICE Electronics Express, 2013, 10, 20130425-20130425.	0.3	2
97	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
98	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
99	A high-efficiency good linearity 21 to 26.5 GHz fully integrated power amplifier using 0.18 $\lambda/4$ m CMOS technology. , 2016, , .		2
100	New compact tunable filter-antenna using varactor loaded ring resonator for cognitive radio front end system. , 2016, , .		2
101	Design of frequency tunable CPW-Fed UWB antenna using varactor diodes for cognitive radio and future software defined radio. , 2016, , .		2
102	Study of phase noise improvement of K-band VCO using additional series resonance realized by DGS resonator on CMOS technology. , 2017, , .		2
103	Frequency-reconfigurable dielectric resonator antenna using metasurface. International Journal of Microwave and Wireless Technologies, 0, , 1-7.	1.5	2
104	A 10-bit 50MS/s 350 $\mu$ W 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
105	Design of low phase noise K $\times$ band $\lambda/4$ VCO using high quality factor resonator in 0.18 $\lambda/4$ m CMOS technology. International Journal of RF and Microwave Computer-Aided Engineering, 2022, 32, .	0.8	2
106	Stacked Metasurfaces for Misalignment Improvement of WPT System Using Spiral Resonators. , 2022, , .		2
107	Improvement of spurious responses of coupled-line BPFs using interdigital-type resonators. Microwave and Optical Technology Letters, 2005, 44, 126-130.	0.9	1
108	A novel high-precision DAC utilizing tribonacci series. IEICE Electronics Express, 2012, 9, 515-521.	0.3	1

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109	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
110	A design methodology for SAR ADC optimal redundancy bit. IEICE Electronics Express, 2014, 11, 20140218-20140218.	0.3	1
111	Performance enhancement of 0.18 $\mu$ m CMOS on chip bandpass filters using H-shaped parasitic element. , 2015, , .		1
112	Compact frequency tunable filtenna with wide continuous tuning range using capacitively loaded folded arms open loop resonator for interweave cognitive radio applications. , 2016, , .		1
113	Design and fabrication of a Bi-directional mode-division multiplexer (BMDM) for optical interconnects. , 2017, , .		1
114	Class-C architecture for cross-coupled FBAR oscillator to further improve phase noise. IEICE Electronics Express, 2017, 14, 20170056-20170056.	0.3	1
115	Design of Multi-layers DGS Resonator for Phase Noise Improvement of K-Band VCOs in 0.18 $\mu$ m CMOS Technology. , 2018, , .		1
116	Wireless Power Transfer Using DGSs. Energy Systems in Electrical Engineering, 2019, , 33-72.	0.5	1
117	Design of Three Layers-Stacked Metasurface and Its Application to Compact Dual-band WPT System. , 2021, , .		1
118	Design Methods. Energy Systems in Electrical Engineering, 2019, , 73-86.	0.5	1
119	Compact Mode-Division De(multiplexer) with Anti-Reflection Grating for Optical Interconnects. , 2016, , .		1
120	A 1.9GHz Low-Phase-Noise Complementary Cross-Coupled FBAR-VCO without Additional Voltage Headroom in 0.18 $\mu$ m CMOS Technology. IEICE Transactions on Electronics, 2017, E100.C, 363-369.	0.3	1
121	Design Methodology of Wide Tuning Range DGS-based VCO for K-band Applications in 0.18- $\mu$ m CMOS Technology. , 2022, , .		1
122	Design of Compact and High Q-Factor W-Band Cavity in 0.18- $\mu$ m CMOS Technology. , 2022, , .		1
123	Dual-Band VCO Using High Quality Factor Two Orthogonally Located Inductors in 0.18- $\mu$ m CMOS Technology. IEEE Microwave and Wireless Components Letters, 2022, , 1-4.	2.0	1
124	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
125	Development of a Single-chip Power Amplifier with Transmission Line Based Impedance Matching Circuit. , 2006, , .		0
126	An UWB bandpass filter with large notch suppression. , 2009, , .		0



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127	Development of electrically small antenna with impedance matching circuit for 2.4GHz band sensor node. , 2010, , .		0
128	Design of the low-noise LC oscillator with the digital frequency tuning based on the composite resonator. , 2010, , .		0
129	3.6 GHz highly monotonic digitally controlled oscillator for all-digital phase locked loop. , 2011, , .		0
130	A compact low power ultra wideband impulse generator on 0.18 $\mu\text{m}$ CMOS technology. Microwave and Optical Technology Letters, 2011, 53, 1128-1131.	0.9	0
131	Development of 2.4GHz one-sided directional slot antenna with 2-stage bandpass filter. , 2012, , .		0
132	Improving linearity of a 5.2 GHz low power mixer in 0.18 $\mu\text{m}$ CMOS process by using Derivative Superposition method. , 2012, , .		0
133	Feedforward charge injection technique in a continuous time delta-sigma modulator. , 2012, , .		0
134	Novel compact tunable bandpass filter using capacitively loaded H-shaped resonator. , 2015, , .		0
135	Dual Resonance Circuits by Defected Ground Structure Resonators for Low Phase Noise K-Band CMOS VCO. , 2018, , .		0
136	Compact 24GHz half-slot antenna for energy combining. , 2018, , .		0
137	Dual-Band Defected Ground Structure Resonators Wireless Power Transfer System Connected to Voltage-Doubler Circuit. , 2019, , .		0
138	Experimental Study of the Effect of Interconnects on Phase Noise of K-Band VCO in $0.18 \mu\text{m}$ CMOS Technology. , 2019, , .		0
139	Low Phase Noise 14-Bit Digitally Controlled CMOS Quadrature Ring Oscillator. IEICE Transactions on Electronics, 2013, E96.C, 262-269.	0.3	0
140	A low power 2.4 GHz LNA operated in subthreshold region. , 2014, , .		0
141	Design of 50-GHz Low Phase Noise VCO Employing Two-Branched DGS Resonator in 0.18- $\mu\text{m}$ CMOS Technology. IEEE Microwave and Wireless Components Letters, 2022, , 1-4.	2.0	0
142	A 100GHz Bandpass Filter Employing Shielded Folded Ridged Quarter-Mode SIW Resonator in CMOS Technology. , 2022, , .		0