

Bruno Neri

List of Publications by Year in descending order

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114
papers

1,869
citations

331670

21
h-index

315739

38
g-index

115
all docs

115
docs citations

115
times ranked

1239
citing authors

#	ARTICLE	IF	CITATIONS
1	The Consciousness State of Traditional Nidra Yoga/Modern Yoga Nidra: Phenomenological Characterization and Preliminary Insights from an EEG Study. <i>International Journal of Yoga Therapy</i> , 2021, 31, .	0.7	4
2	Analysis and Design of Integrated Blocks for a 6.25 GHz Spacefibre PLL. <i>Sensors</i> , 2020, 20, 4013.	3.8	7
3	Microwave Circuit Conditional Stability: Two-Parameter Criteria. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020, 67, 2913-2917.	3.0	3
4	Analysis and Simulation of a PLL Architecture Towards a Fully Integrated 65Ånm Solution for the New Spacefibre Standard. <i>Lecture Notes in Electrical Engineering</i> , 2020, , 451-462.	0.4	0
5	On the Relationships Between Input and Output Stability in Two-Ports. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2019, 66, 2489-2495.	5.4	9
6	How Breath-Control Can Change Your Life: A Systematic Review on Psycho-Physiological Correlates of Slow Breathing. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 353.	2.0	294
7	Wideband mmWave Antenna for Wireless Network-On-Chip/Network-On-Board Communications. <i>Lecture Notes in Electrical Engineering</i> , 2018, , 132-137.	0.4	0
8	Exploiting mm-Wave Communications to Boost the Performance of Industrial Wireless Networks. <i>IEEE Transactions on Industrial Informatics</i> , 2017, 13, 1460-1470.	11.3	31
9	Radar Sensor Signal Acquisition and Multidimensional FFT Processing for Surveillance Applications in Transport Systems. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2017, 66, 604-615.	4.7	63
10	Design Exploration of mm-Wave Integrated Transceivers for Short-Range Mobile Communications Towards 5G. <i>Journal of Circuits, Systems and Computers</i> , 2017, 26, 1750069.	1.5	9
11	System-level modelling/analysis and LNA design in low-cost automotive technology of a V2X wireless transceiver. , 2017, , .		3
12	System-Level Analysis for Integrated Power Amplifier Design in mmWave Consumer Wireless Communications. <i>Lecture Notes in Electrical Engineering</i> , 2017, , 167-174.	0.4	2
13	A Short Term Simulator for Vessel Manoeuvres Prediction. <i>Lecture Notes in Electrical Engineering</i> , 2017, , 59-65.	0.4	0
14	Design exploration for millimeter-wave short-range industrial wireless communications. , 2016, , .		3
15	Real-time FPGA-based radar imaging for smart mobility systems. <i>Proceedings of SPIE</i> , 2016, , .	0.8	2
16	Design of compact and low-power X-band Radar for mobility surveillance applications. <i>Computers and Electrical Engineering</i> , 2016, 56, 46-63.	4.8	9
17	Radar sensor signal acquisition and 3D FFT processing for smart mobility surveillance systems. , 2016, , .		10
18	mm-wave integrated wireless transceiver: enabling technology for high bandwidth short-range networking in cyber physical systems. <i>Microsystem Technologies</i> , 2016, 22, 1893-1903.	2.0	8

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19	Low Cost FMCW Radar Design and Implementation for Harbour Surveillance Applications. Lecture Notes in Electrical Engineering, 2016, , 139-144.	0.4	2
20	A Ship Motion Short-Term Time Domain Simulator and Its Application to Costa Concordia Emergency Manoeuvres Just Before the January 2012 Accident. Simulation Foundations, Methods and Applications, 2016, , 57-71.	0.1	0
21	The disaster of Costa Concordia cruise ship: An accurate reconstruction based on Black Box and automation system data. , 2015, , .		2
22	mm-wave integrated wireless transceivers: Enabling technology for high bandwidth connections in IoT. , 2015, , .		3
23	Gbps wireless transceivers for high bandwidth interconnections in distributed cyber physical systems. , 2015, , .		1
24	Design of a 2 Gb/s transceiver at 60 GHz with integrated antenna in bulk CMOS technology. , 2014, , .		3
25	X-band compact low cost multi-channel radar prototype for short range high resolution 3D-InISAR. , 2014, , .		9
26	A Ship Motion Short Term Time Domain Simulator And Its Application To Costa Concordia Emergency Manoeuvres Just Before The January 2012 Accident. , 2014, , .		2
27	Wireless Sensing Based on RFID and Capacitive Technologies for Safety in Marble Industry Process Control. Journal of Computer Networks and Communications, 2013, 2013, 1-19.	1.6	0
28	Privacy and Security in Wireless Sensor Networks: Protocols, Algorithms, and Efficient Architectures. Journal of Computer Networks and Communications, 2013, 2013, 1-3.	1.6	1
29	INTEGRATED 60 GHZ ANTENNA, LNA AND FAST ADC ARCHITECTURE FOR EMBEDDED SYSTEMS WITH WIRELESS GBIT CONNECTIVITY. Journal of Circuits, Systems and Computers, 2012, 21, 1250047.	1.5	7
30	Advances in technologies, architectures, and applications of highly-integrated low-power radars. IEEE Aerospace and Electronic Systems Magazine, 2012, 27, 25-36.	1.3	16
31	Feasibility study and on-chip antenna for fully integrated μRFID tag at 60 GHz in 65 nm CMOS SOI. , 2011, , .		10
32	Design of a Low Noise Amplifier with integrated antenna for 60 GHz wireless communications. , 2011, , .		3
33	IEEE 1451 Sensor Interfacing and Data Fusion in Embedded Systems. Lecture Notes in Electrical Engineering, 2011, , 59-73.	0.4	0
34	Capacitive sensors for process control in industrial marble machines. , 2009, , .		2
35	Experimental analysis towards the application of RFID technologies in industrial marble machines. , 2009, , .		3
36	System-on-chip microwave radiometer for thermal remote sensing and its application to the forest fire detection. , 2008, , .		17

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37	Feasibility Study and Design of a Wearable System-on-a-Chip Pulse Radar for Contactless Cardiopulmonary Monitoring. International Journal of Telemedicine and Applications, 2008, 2008, 1-10.	2.0	24
38	Wearable System-on-a-Chip Radiometer for Remote Temperature Sensing and its Application to the Safeguard of Emergency Operators. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5716-9.	0.5	3
39	Gemcitabine plus docetaxel as first-line biweekly therapy in locally advanced and/or metastatic urothelial carcinoma: a phase II study. Anti-Cancer Drugs, 2007, 18, 1207-1211.	1.4	9
40	A Novel LNA Topology with Transformer-based Input Integrated Matching and its 60-GHz Millimeter-wave CMOS 65-nm Design. , 2007, , .		10
41	Feasibility study of a low-cost system-on-a-chip UWB pulse radar on silicon for the heart monitoring. , 2007, , .		13
42	Feasibility study and design of a low-cost system-on-a-chip microwave radiometer on silicon. , 2007, , .		4
43	Wearable System-on-a-Chip Pulse Radar Sensors for the Health Care: System Overview. , 2007, , .		8
44	Advanced Model and RF-CMOS Design of the Boot-Strapped Inductor. , 2007, , .		4
45	Wearable System-on-a-Chip UWB Radar for Health Care and its Application to the Safety Improvement of Emergency Operators. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2651-4.	0.5	26
46	Modified CMOS boot-strapped inductor. International Journal of Circuit Theory and Applications, 2007, 35, 391-404.	2.0	6
47	RF Switch on Standard SiGe-CMOS Technology for System-on-a-chip Radio Transceivers. Bipolar/BiCMOS Circuits and Technology Meeting, IEEE Proceedings of the, 2006, , .	0.0	2
48	5-GHz WLAN Standards Compliant Image Reject Radio Receiver on Low-cost SiGe-CMOS Technology. , 2006, , .		0
49	Modeling and Design of the CMOS Boot-Strapped Inductor for 5-6 GHz Applications. , 2006, , .		3
50	54 dB Image Rejection Fully Integrated Receiver for Multi-standard 5-GHz WLANs. , 2006, , .		0
51	High-Performance VCO for 5-GHz WLANs in 0.35 μm CMOS Standard Technology. , 2006, , .		1
52	Low-Power RF Transceiver for IEEE 802.15.4 (ZigBee) Standard Applications. , 2006, , .		6
53	Wide-Band Frequency-Independent Equivalent Circuit Model for Integrated Spiral Inductors in (Bi)CMOS Technology. , 2006, , .		2
54	Single-chip RF Front-end with T/R Switch on Standard Silicon Technology for 5-GHz WLANs. , 2006, , .		2

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55	Single-chip RF Front-end with T/R Switch on Standard Silicon Technology for 5-GHz WLANs. , 2006, , .		1
56	Magnetic field stabilization for magnetically shielded volumes by external field coils. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 554, 527-539.	1.6	20
57	DEDICATED INSTRUMENTATION FOR HIGH SENSITIVITY, LOW FREQUENCY NOISE MEASUREMENT SYSTEMS. Fluctuation and Noise Letters, 2004, 04, L385-L402.	1.5	30
58	Theory and experiment of suppressed shot noise in stress-induced leakage currents. IEEE Transactions on Electron Devices, 2003, 50, 1363-1369.	3.0	26
59	Base coupled differential amplifier: a new topology for RF integrated LNA. International Journal of Circuit Theory and Applications, 2003, 31, 351-360.	2.0	5
60	Low-frequency noise measurements: applications, methodologies and instrumentation. , 2003, , .		7
61	Low frequency current noise in unstressed/stressed thin oxide metal-oxide-semiconductor capacitors. Solid-State Electronics, 2002, 46, 1807-1813.	1.4	7
62	Current noise at the oxide hard-breakdown. Microelectronic Engineering, 2001, 59, 43-47.	2.4	5
63	Low frequency noise evolution during lifetime tests of lines and vias subjected to electromigration. Microelectronics Reliability, 2000, 40, 1323-1327.	1.7	7
64	Shot noise partial suppression in the SILO regime. Microelectronics Reliability, 2000, 40, 1605-1608.	1.7	10
65	Temperature controlled oven for low noise measurement systems [for electromigration characterization]. IEEE Transactions on Instrumentation and Measurement, 2000, 49, 546-549.	4.7	4
66	Low-frequency noise measurements as a characterization tool for degradation phenomena in solid-state devices. Journal Physics D: Applied Physics, 2000, 33, R199-R216.	2.8	74
67	Suppressed shot noise in trap-assisted tunneling of metal-oxide-semiconductor capacitors. Applied Physics Letters, 2000, 77, 2876-2878.	3.3	21
68	Pre-breakdown in thin SiO ₂ films. IEEE Electron Device Letters, 2000, 21, 319-321.	3.9	22
69	Transients during pre-breakdown and hard breakdown of thin gate oxides in metal-oxide-semiconductor capacitors. Materials Science in Semiconductor Processing, 1999, 2, 359-367.	4.0	4
70	Long term noise measurements and median time to failure test for the characterization of electromigration in metal lines. Microelectronics Reliability, 1999, 39, 1691-1696.	1.7	7
71	Origin of the substrate current after soft-breakdown in thin oxide n-MOSFETs. , 1999, , .		2
72	High-quality active inductors. Electronics Letters, 1999, 35, 1727.	1.0	20

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73	Long term noise measurements to characterize electromigration in metal lines of ICs. , 1999, , .		3
74	Ultra low-noise current sources. IEEE Transactions on Instrumentation and Measurement, 1998, 47, 78-81.	4.7	21
75	True constant temperature measurement system for lifetime tests of metallic interconnections of IC's. IEEE Transactions on Instrumentation and Measurement, 1998, 47, 1187-1190.	4.7	1
76	Electrical and thermal transient during dielectric breakdown of thin oxides in metal-SiO ₂ -silicon capacitors. Journal of Applied Physics, 1998, 84, 472-479.	2.5	62
77	Characterization of Al-Si-Cu metal lines by means of tem analysis and the sarf technique. Microelectronics Reliability, 1997, 37, 1079-1085.	1.7	6
78	Noise and fluctuations in submicrometric Al-Si interconnect lines. IEEE Transactions on Electron Devices, 1997, 44, 1454-1459.	3.0	38
79	Ultralow-noise PC-Based measurement system for the characterization of the metallizations of integrated circuits. IEEE Transactions on Instrumentation and Measurement, 1997, 46, 789-793.	4.7	21
80	Ultralow-noise programmable voltage source. IEEE Transactions on Instrumentation and Measurement, 1997, 46, 1256-1261.	4.7	18
81	Comments on the utilization of noise measurements for the characterization of electromigration in metal lines. Microelectronics Reliability, 1997, 37, 1607-1610.	1.7	1
82	Electromigration in Al based stripes: Low frequency noise measurements and MTF tests. Microelectronics Reliability, 1996, 36, 1045-1050.	1.7	10
83	Copper interconnection lines: SARF characterization and lifetime test. Microelectronics Reliability, 1996, 36, 1747-1750.	1.7	2
84	Wafer level measurement system for sarf characterization of metal lines. Microelectronics Reliability, 1996, 36, 1851-1854.	1.7	8
85	Vapour and gas sensing by noise measurements on polymeric balanced bridge microstructures. Sensors and Actuators B: Chemical, 1995, 25, 429-432.	7.8	23
86	Dielectric breakdown and reliability of MOS microstructures: Traditional characterization and low-frequency noise measurements. Microelectronics Reliability, 1995, 35, 529-537.	1.7	12
87	Low-frequency resistance fluctuation measurements on conducting polymer thin-film resistors. Journal of Applied Physics, 1994, 76, 3640-3644.	2.5	17
88	Modulation of human lymphoblastoid interferon activity by melatonin in metastatic renal cell carcinoma. A phase II study. Cancer, 1994, 73, 3015-3019.	4.1	41
89	Gas and vapour effects on the resistance fluctuation spectra of conducting polymer thin-film resistors. Sensors and Actuators B: Chemical, 1994, 19, 421-425.	7.8	36
90	Dependence of electromigration noise on geometrical and structural characteristics in aluminum-based resistors. IEEE Transactions on Electron Devices, 1994, 41, 2173-2175.	3.0	10

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91	Thermally regulated low-noise, wideband, I/V converter, using Peltier heat pumps. IEEE Transactions on Instrumentation and Measurement, 1994, 43, 900-905.	4.7	15
92	Low frequency electromigration noise and film microstructure in Al/Si stripes: Electrical measurements and TEM analysis. Journal of Electronic Materials, 1993, 22, 1323-1326.	2.2	8
93	Low-frequency noise measurements as a complementary tool in the investigation of integrated circuit reliability. Microelectronics Reliability, 1992, 32, 1627-1631.	1.7	2
94	Electromigration in thin-film interconnection lines: models, methods and results. Materials Science and Engineering Reports, 1991, 7, 143-220.	5.8	131
95	Variations of temperature coefficient and noise in thin Al and Al/Si resistors subjected to high current density. Journal of Electronic Materials, 1991, 20, 559-565.	2.2	11
96	Ultra low-noise preamplifier for low-frequency noise measurements in electron devices. IEEE Transactions on Instrumentation and Measurement, 1991, 40, 2-6.	4.7	63
97	Correlated fluctuations and noise spectra of tunneling and substrate currents before breakdown in thin-oxide MOS devices. IEEE Transactions on Electron Devices, 1990, 37, 2411-2413.	3.0	19
98	A study of electromigration in aluminum and aluminum-silicon thin film resistors using noise technique. Solid-State Electronics, 1989, 32, 11-16.	1.4	35
99	Noise measurements in thin-film interconnections: A nondestructive technique to characterize electromigration. Journal of Applied Physics, 1988, 63, 1448-1451.	2.5	20
100	Low-frequency noise in silicon-gate metal-oxide-silicon capacitors before oxide breakdown. Applied Physics Letters, 1987, 51, 2167-2169.	3.3	128
101	Conductivity variations induced by water vapor adsorption in granular metal films. Journal of Applied Physics, 1987, 62, 2138-2139.	2.5	10
102	Electromigration and low-frequency resistance fluctuations in aluminum thin-film interconnections. IEEE Transactions on Electron Devices, 1987, 34, 2317-2322.	3.0	83
103	Electromigration detection by means of low-frequency noise measurements in thin-film interconnections. IEEE Electron Device Letters, 1985, 6, 606-608.	3.9	47
104	Fully integrated low-noise-amplifier with high quality factor L-C filter for 1.8 GHz wireless applications. , 0, , .		4
105	Ultra low noise current sources. , 0, , .		4
106	Design and simulation of active spiral inductors for RF integrated circuits. , 0, , .		3
107	A single-chip 1.8 GHz image reject RF receiver front-end with boot-strapped inductors. , 0, , .		1
108	A new differential LNA topology for wireless applications. , 0, , .		2

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109	A novel fully integrated antenna switch for wireless systems. , 0, , .		10
110	Fully integrated heterodyne RF receiver for ISM band applications. , 0, , .		1
111	Fully integrated RF front-end for WLAN: a new step toward single-chip transceivers. , 0, , .		0
112	Single-chip heterodyne receiver for 5-6 GHz WLAN with high image rejection. , 0, , .		0
113	A novel fully integrated antenna switch for 5-6 GHz wireless LAN systems. , 0, , .		0
114	Single chip 1.8 GHz band pass LNA with temperature self-compensation. , 0, , .		4