

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	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
2	Electromigration in thin-film interconnection lines: models, methods and results. <i>Materials Science and Engineering Reports</i> , 1991, 7, 143-220.	5.8	131
3	Low-frequency noise in silicon-gate metal-oxide-silicon capacitors before oxide breakdown. <i>Applied Physics Letters</i> , 1987, 51, 2167-2169.	3.3	128
4	Electromigration and low-frequency resistance fluctuations in aluminum thin-film interconnections. <i>IEEE Transactions on Electron Devices</i> , 1987, 34, 2317-2322.	3.0	83
5	Low-frequency noise measurements as a characterization tool for degradation phenomena in solid-state devices. <i>Journal Physics D: Applied Physics</i> , 2000, 33, R199-R216.	2.8	74
6	Ultra low-noise preamplifier for low-frequency noise measurements in electron devices. <i>IEEE Transactions on Instrumentation and Measurement</i> , 1991, 40, 2-6.	4.7	63
7	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
8	Electrical and thermal transient during dielectric breakdown of thin oxides in metal-SiO ₂ -silicon capacitors. <i>Journal of Applied Physics</i> , 1998, 84, 472-479.	2.5	62
9	Electromigration detection by means of low-frequency noise measurements in thin-film interconnections. <i>IEEE Electron Device Letters</i> , 1985, 6, 606-608.	3.9	47
10	Modulation of human lymphoblastoid interferon activity by melatonin in metastatic renal cell carcinoma. A phase II study. <i>Cancer</i> , 1994, 73, 3015-3019.	4.1	41
11	Noise and fluctuations in submicrometric Al-Si interconnect lines. <i>IEEE Transactions on Electron Devices</i> , 1997, 44, 1454-1459.	3.0	38
12	Gas and vapour effects on the resistance fluctuation spectra of conducting polymer thin-film resistors. <i>Sensors and Actuators B: Chemical</i> , 1994, 19, 421-425.	7.8	36
13	A study of electromigration in aluminum and aluminum-silicon thin film resistors using noise technique. <i>Solid-State Electronics</i> , 1989, 32, 11-16.	1.4	35
14	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
15	DEDICATED INSTRUMENTATION FOR HIGH SENSITIVITY, LOW FREQUENCY NOISE MEASUREMENT SYSTEMS. <i>Fluctuation and Noise Letters</i> , 2004, 04, L385-L402.	1.5	30
16	Theory and experiment of suppressed shot noise in stress-induced leakage currents. <i>IEEE Transactions on Electron Devices</i> , 2003, 50, 1363-1369.	3.0	26
17	Wearable System-on-a-Chip UWB Radar for Health Care and its Application to the Safety Improvement of Emergency Operators. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 2651-4.	0.5	26
18	Feasibility Study and Design of a Wearable System-on-a-Chip Pulse Radar for Contactless Cardiopulmonary Monitoring. <i>International Journal of Telemedicine and Applications</i> , 2008, 2008, 1-10.	2.0	24

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19	Vapour and gas sensing by noise measurements on polymeric balanced bridge microstructures. Sensors and Actuators B: Chemical, 1995, 25, 429-432.	7.8	23
20	Pre-breakdown in thin SiO ₂ films. IEEE Electron Device Letters, 2000, 21, 319-321.	3.9	22
21	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
22	Ultra low-noise current sources. IEEE Transactions on Instrumentation and Measurement, 1998, 47, 78-81.	4.7	21
23	Suppressed shot noise in trap-assisted tunneling of metal-oxide-semiconductor capacitors. Applied Physics Letters, 2000, 77, 2876-2878.	3.3	21
24	Noise measurements in thin-film interconnections: A nondestructive technique to characterize electromigration. Journal of Applied Physics, 1988, 63, 1448-1451.	2.5	20
25	High-quality active inductors. Electronics Letters, 1999, 35, 1727.	1.0	20
26	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
27	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
28	Ultralow-noise programmable voltage source. IEEE Transactions on Instrumentation and Measurement, 1997, 46, 1256-1261.	4.7	18
29	Low-frequency resistance fluctuation measurements on conducting polymer thin-film resistors. Journal of Applied Physics, 1994, 76, 3640-3644.	2.5	17
30	System-on-chip microwave radiometer for thermal remote sensing and its application to the forest fire detection. , 2008, , .		17
31	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
32	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
33	Feasibility study of a low-cost system-on-a-chip UWB pulse radar on silicon for the heart monitoring. , 2007, , .		13
34	Dielectric breakdown and reliability of MOS microstructures: Traditional characterization and low-frequency noise measurements. Microelectronics Reliability, 1995, 35, 529-537.	1.7	12
35	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
36	Conductivity variations induced by water vapor adsorption in granular metal films. Journal of Applied Physics, 1987, 62, 2138-2139.	2.5	10

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37	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
38	Electromigration in Al based stripes: Low frequency noise measurements and MTF tests. Microelectronics Reliability, 1996, 36, 1045-1050.	1.7	10
39	Shot noise partial suppression in the SILO regime. Microelectronics Reliability, 2000, 40, 1605-1608.	1.7	10
40	A novel fully integrated antenna switch for wireless systems. , 0, , .		10
41	A Novel LNA Topology with Transformer-based Input Integrated Matching and its 60-GHz Millimeter-wave CMOS 65-nm Design. , 2007, , .		10
42	Feasibility study and on-chip antenna for fully integrated μRFID tag at 60 GHz in 65 nm CMOS SOL. , 2011, , .		10
43	Radar sensor signal acquisition and 3D FFT processing for smart mobility surveillance systems. , 2016, , .		10
44	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
45	X-band compact low cost multi-channel radar prototype for short range high resolution 3D-InSAR. , 2014, , .		9
46	Design of compact and low-power X-band Radar for mobility surveillance applications. Computers and Electrical Engineering, 2016, 56, 46-63.	4.8	9
47	Design Exploration of mm-Wave Integrated Transceivers for Short-Range Mobile Communications Towards 5G. Journal of Circuits, Systems and Computers, 2017, 26, 1750069.	1.5	9
48	On the Relationships Between Input and Output Stability in Two-Ports. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 2489-2495.	5.4	9
49	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
50	Wafer level measurement system for sarf characterization of metal lines. Microelectronics Reliability, 1996, 36, 1851-1854.	1.7	8
51	Wearable System-on-a-Chip Pulse Radar Sensors for the Health Care: System Overview. , 2007, , .		8
52	mm-wave integrated wireless transceiver: enabling technology for high bandwidth short-range networking in cyber physical systems. Microsystem Technologies, 2016, 22, 1893-1903.	2.0	8
53	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
54	Low frequency noise evolution during lifetime tests of lines and vias subjected to electromigration. Microelectronics Reliability, 2000, 40, 1323-1327.	1.7	7

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55	Low frequency current noise in unstressed/stressed thin oxide metal-oxide-semiconductor capacitors. Solid-State Electronics, 2002, 46, 1807-1813.	1.4	7
56	Low-frequency noise measurements: applications, methodologies and instrumentation. , 2003, , .		7
57	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
58	Analysis and Design of Integrated Blocks for a 6.25 GHz Spacefibre PLL. Sensors, 2020, 20, 4013.	3.8	7
59	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
60	Low-Power RF Transceiver for IEEE 802.15.4 (ZigBee) Standard Applications. , 2006, , .		6
61	Modified CMOS boot-strapped inductor. International Journal of Circuit Theory and Applications, 2007, 35, 391-404.	2.0	6
62	Current noise at the oxide hard-breakdown. Microelectronic Engineering, 2001, 59, 43-47.	2.4	5
63	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
64	Fully integrated low-noise-amplifier with high quality factor L-C filter for 1.8 GHz wireless applications. , 0, , .		4
65	Ultra low noise current sources. , 0, , .		4
66	Transients during pre-breakdown and hard breakdown of thin gate oxides in metalâ€“SiO2â€“Si capacitors. Materials Science in Semiconductor Processing, 1999, 2, 359-367.	4.0	4
67	Temperature controlled oven for low noise measurement systems [for electromigration characterization]. IEEE Transactions on Instrumentation and Measurement, 2000, 49, 546-549.	4.7	4
68	Feasibility study and design of a low-cost system-on-a-chip microwave radiometer on silicon. , 2007, , .		4
69	Advanced Model and RF-CMOS Design of the Boot-Strapped Inductor. , 2007, , .		4
70	The Consciousness State of Traditional NidrÃ¢ Yoga/Modern Yoga Nidra: Phenomenological Characterization and Preliminary Insights from an EEG Study. International Journal of Yoga Therapy, 2021, 31, .	0.7	4
71	Single chip 1.8 GHz band pass LNA with temperature self-compensation. , 0, , .		4
72	Design and simulation of active spiral inductors for RF integrated circuits. , 0, , .		3

#	ARTICLE	IF	CITATIONS
73	Long term noise measurements to characterize electromigration in metal lines of ICs. , 1999, , .		3
74	Modeling and Design of the CMOS Boot-Strapped Inductor for 5-6 GHz Applications. , 2006, , .		3
75	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
76	Experimental analysis towards the application of RFID technologies in industrial marble machines. , 2009, , .		3
77	Design of a Low Noise Amplifier with integrated antenna for 60 GHz wireless communications. , 2011, , .		3
78	Design of a 2 Gb/s transceiver at 60 GHz with integrated antenna in bulk CMOS technology. , 2014, , .		3
79	mm-wave integrated wireless transceivers: Enabling technology for high bandwidth connections in IoT. , 2015, , .		3
80	Design exploration for millimeter-wave short-range industrial wireless communications. , 2016, , .		3
81	System-level modelling/analysis and LNA design in low-cost automotive technology of a V2X wireless transceiver. , 2017, , .		3
82	Microwave Circuit Conditional Stability: Two-Parameter Criteria. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2913-2917.	3.0	3
83	Low-frequency noise measurements as a complementary tool in the investigation of integrated circuit reliability. Microelectronics Reliability, 1992, 32, 1627-1631.	1.7	2
84	Copper interconnection lines: SARF characterization and lifetime test. Microelectronics Reliability, 1996, 36, 1747-1750.	1.7	2
85	Origin of the substrate current after soft-breakdown in thin oxide n-MOSFETs. , 1999, , .		2
86	A new differential LNA topology for wireless applications. , 0, , .		2
87	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
88	Wide-Band Frequency-Independent Equivalent Circuit Model for Integrated Spiral Inductors in (Bi)CMOS Technology. , 2006, , .		2
89	Single-chip RF Front-end with T/R Switch on Standard Silicon Technology for 5-GHz WLANs. , 2006, , .		2
90	Capacitive sensors for process control in industrial marble machines. , 2009, , .		2

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91	The disaster of Costa Concordia cruise ship: An accurate reconstruction based on Black Box and automation system data. , 2015, , .		2
92	Real-time FPGA-based radar imaging for smart mobility systems. Proceedings of SPIE, 2016, , .	0.8	2
93	Low Cost FMCW Radar Design and Implementation for Harbour Surveillance Applications. Lecture Notes in Electrical Engineering, 2016, , 139-144.	0.4	2
94	System-Level Analysis for Integrated Power Amplifier Design in mmWave Consumer Wireless Communications. Lecture Notes in Electrical Engineering, 2017, , 167-174.	0.4	2
95	A Ship Motion Short Term Time Domain Simulator And Its Application To Costa Concordia Emergency Manoeuvres Just Before The January 2012 Accident. , 2014, , .		2
96	Comments on the utilization of noise measurements for the characterization of electromigration in metal lines. Microelectronics Reliability, 1997, 37, 1607-1610.	1.7	1
97	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
98	A single-chip 1.8 GHz image reject RF receiver front-end with boot-strapped inductors. , 0, , .		1
99	Fully integrated heterodyne RF receiver for ISM band applications. , 0, , .		1
100	High-Performance VCO for 5-GHz WLANs in 0.35 μm CMOS Standard Technology. , 2006, , .		1
101	Single-chip RF Front-end with T/R Switch on Standard Silicon Technology for 5-GHz WLANs. , 2006, , .		1
102	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
103	Gbps wireless transceivers for high bandwidth interconnections in distributed cyber physical systems. , 2015, , .		1
104	Fully integrated RF front-end for WLAN: a new step toward single-chip transceivers. , 0, , .		0
105	Single-chip heterodyne receiver for 5-6 GHz WLAN with high image rejection. , 0, , .		0
106	A novel fully integrated antenna switch for 5-6 GHz wireless LAN systems. , 0, , .		0
107	5-GHz WLAN Standards Compliant Image Reject Radio Receiver on Low-cost SiGe-CMOS Technology. , 2006, , .		0
108	54 dB Image Rejection Fully Integrated Receiver for Multi-standard 5-GHz WLANs. , 2006, , .		0

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109	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
110	IEEE 1451 Sensor Interfacing and Data Fusion in Embedded Systems. Lecture Notes in Electrical Engineering, 2011, , 59-73.	0.4	0
111	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
112	A Short Term Simulator for Vessel Manoeuvres Prediction. Lecture Notes in Electrical Engineering, 2017, , 59-65.	0.4	0
113	Wideband mmWave Antenna for Wireless Network-On-Chip/Network-On-Board Communications. Lecture Notes in Electrical Engineering, 2018, , 132-137.	0.4	0
114	Analysis and Simulation of a PLL Architecture Towards a Fully Integrated 65Ånm Solution for the New Spacefibre Standard. Lecture Notes in Electrical Engineering, 2020, , 451-462.	0.4	0