Mojtaba Joodaki

List of Publications by Year
in descending order

75 papers	429 citations	933447 10 h-index	888059 17 g-index
76 all docs	76 docs citations	76 times ranked	393 citing authors

#	Article	IF	Citations
1	Design and fabrication of a 2D-isotropic flexible ultra-thin metasurface for ambient electromagnetic energy harvesting. AIP Advances, 2019, 9, .	1.3	34
2	Two-Dimensional Displacement Sensor Based on CPW Line Loaded by Defected Ground Structure With Two Separated Transmission Zeroes. IEEE Sensors Journal, 2017, 17, 994-999.	4.7	31
3	Analysis, Design, and Implementation of a New Extremely Ultrathin 2-D-Isotropic Flexible Energy Harvester Using Symmetric Patch FSS. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 2108-2115.	4.6	24
4	Coplanar Waveguide (CPW) Loaded With an Electromagnetic Bandgap (EBG) Structure: Modeling and Application to Displacement Sensor. IEEE Sensors Journal, 2016, 16, 3034-3040.	4.7	22
5	UV and IR cut-off filters based on plasmonic crossed-shaped nano-antennas for solar cell applications. Optics Communications, 2019, 433, 275-282.	2.1	20
6	Shielding Effectiveness Estimation of a Metallic Enclosure With an Aperture Using S-Parameter Analysis: Analytic Validation and Experiment. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 537-540.	2.2	19
7	Systematic design of hybrid high power microwave amplifiers using large gate periphery GaN HEMTs. AEU - International Journal of Electronics and Communications, 2018, 84, 225-233.	2.9	17
8	Uprising nano memories: Latest advances in monolithic three dimensional (3D) integrated Flash memories. Microelectronic Engineering, 2016, 164, 75-87.	2.4	14
9	Probe-induced resistive switching memory based on organic-inorganic lead halide perovskite materials. Organic Electronics, 2019, 69, 106-113.	2.6	13
10	An enhanced quasi-monolithic integration technology for microwave and millimeter wave applications. IEEE Transactions on Advanced Packaging, 2003, 26, 402-409.	1.6	10
11	Small-Signal Characterization of SiGe-HBT<tex>f_T</tex>-Doubler up to 120 GHz. IEEE Transactions on Electron Devices, 2005, 52, 2108-2111.	3.0	10
12	Investigation of the tensile strain influence on flicker noise of organic solar cells under dark condition. Organic Electronics, 2018, 59, 230-235.	2.6	10
13	A new compact dual-band perfect absorption ultrathin planar metasurface energy harvester in X- and V-bands with a wide incident angle. AIP Advances, 2020, 10, 085007.	1.3	10
14	Thermal analysis of microwave GaN-HEMTs in conventional and flip-chip assemblies. International Journal of RF and Microwave Computer-Aided Engineering, 2018, 28, e21513.	1.2	9
15	Realization of a broadband hybrid X-band power amplifier based on f-doubler technique. AEU - International Journal of Electronics and Communications, 2019, 104, 119-127.	2.9	9
16	Radio Frequency Devices. Lecture Notes in Electrical Engineering, 2013, , 159-170.	0.4	9
17	Quasi-monolithic integration of high-power GaN-based HEMTs for high-frequency applications. Semiconductor Science and Technology, 2007, 22, 1245-1248.	2.0	8
18	An Angular Displacement Sensor With a Curved Two-Metal-Layer CPW Loaded by an EBG Structure. IEEE Sensors Journal, 2018, 18, 2335-2341.	4.7	8

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19	A fast method for estimating shielding effectiveness of an enclosure with apertures. , 2014, , .		7
20	Using Aperture Impedance for Shielding Effectiveness Estimation of a Metallic Enclosure With Multiple Apertures on Different Walls Considering Higher Order Modes. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 629-637.	2.2	7
21	Extracting voltage-dependent series resistance of single diode model for organic solar cells. SN Applied Sciences, 2019, 1, 1.	2.9	7
22	Realization of a Low-Cost Displacement Sensor on PCB With Two-Metal-Layer Coplanar Waveguide Loaded by an EBG Structure. IEEE Sensors Journal, 2017, 17, 4797-4804.	4.7	6
23	Application of a Scanning Thermal Nano-Probe for Thermal Imaging of High Frequency Active devices. Japanese Journal of Applied Physics, 2005, 44, 6823-6825.	1.5	5
24	Application of neural networks for extraction of distance and reflectance in pulsed laser radar. Measurement: Journal of the International Measurement Confederation, 2007, 40, 724-736.	5.0	5
25	An extended drain current conductance extraction method and its application to DRAM support and array devices. Solid-State Electronics, 2009, 53, 1020-1031.	1.4	5
26	Selected Advances in Nanoelectronic Devices. Lecture Notes in Electrical Engineering, 2013, , .	0.4	5
27	A network of ports to estimate shielding effectiveness of an enclosure with apertures. , 2016, , .		5
28	Investigation of Electrical Characteristics Dependency of Roll-to-Roll Printed Solar Cells With Silver Electrodes on Mechanical Tensile Strain. IEEE Transactions on Device and Materials Reliability, 2019, 19, 718-722.	2.0	5
29	Shielding Effectiveness Measurement for Extremely Small Dimension Enclosures. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 1740-1745.	2.2	5
30	Simulation and measurement of thermal stress in quasi-monolithic integration technology (QMIT). , 0, , .		4
31	Heat transfer and thermal stress analysis in the new generation quasi-monolithic integration technology (QMIT). , 0, , .		4
32	Thermomechanical stress analysis and measurement in quasi-monolithic integration technology (QMIT). IEEE Transactions on Device and Materials Reliability, 2005, 5, 581-594.	2.0	4
33	An 8.8–9.8 GHz 100W hybrid solid state power amplifier for high power applications. , 2014, , .		4
34	On the extraction of the external drain and source resistors and effective channel length in Si-MOSFET. Solid-State Electronics, 2015, 111, 1-6.	1.4	4
35	Thermal analysis of organic solar cells using an enhanced opto-thermal model. Organic Electronics, 2015, 25, 184-192.	2.6	4
36	Design and fabrication of hybrid 30-watt X-band GaN-based amplifier. , 2016, , .		4

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37	High efficiency 8.8â€“9.6 GHz class J power amplifier. , 2016, , .		4
38	Experimental investigation of tensile mechanical strain influence on the dark current of organic solar cells. Organic Electronics, 2018, 54, 192-196.	2.6	4
39	Odd-Mode Instability Analysis of f _T-Doubler Hybrid Power Amplifiers Based on GaN-HEMT. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1193-1197.	3.0	4
40	Optimization of thermal resistance in quasi monolithic integration technology (QMIT) structure. , 0, , .		3
41	Using neural networks for high resolution distance measurements in pulsed laser radar. , 0, , .		3
42	A voltage-dependent channel length extraction method for MOSFETâ€™s. Solid-State Electronics, 2006, 50, 1787-1795.	1.4	3
43	Efficiency enhancement by employing the transistor nonlinear capacitors effects in a 6W hybrid X-band Class-J power amplifier. International Journal of RF and Microwave Computer-Aided Engineering, 2018, 28, e21187.	1.2	3
44	An extremely ultrathin flexible Huygensâ€™s transformer. AIP Advances, 2020, 10, 105201.	1.3	3
45	Decreasing the Loading Effect of the TVS Diode Using a Transmission Line for RF and Microwave Applications. IEEE Letters on EMC Practice and Applications, 2021, 3, 29-33.	1.1	3
46	A systematic approach to a reliable neural model for pHEMT using different numbers of training data. , 0, , .		2
47	Thermal imaging of microwave power GaAs-FET with scanning thermal nanoprobe. , 2002, , .		2
48	Interconnects Analyses in Quasi-Monolithic Integration Technology (QMIT). , 2006, , .		2
49	Technological requirements for a self-aligned lateral SiGe HBT with the SiGe layer formed by Ge ion implantation in Si including theoretical performance. , 2006, , .		2
50	A radiated EMI measurement setup for un-buffered DRAM PCBs. , 2014, , .		2
51	A wide differential passband filter with common-mode suppression property based on left handed metamaterial transmission line. , 2016, , .		2
52	Shielding effectiveness estimation of an enclosure with an arbitrary shape aperture. , 2017, , .		2
53	Microstrip differential passband filter with high commonâ€mode suppression using periodically loaded stubs and coupled resonators. Journal of Engineering, 2018, 2018, 242-247.	1.1	2
54	A Distributed Power Amplifier Design with a High Power Gain. , 2020, , .		2

#	Article	IF	Citations
55	Static thermal design of quasi monolithic integration technology (QMIT). , 0, , .		1
56	Static thermal design of quasi monolithic technology (QMT) for realization of power microwave and millimeter wave circuits. , 0, , .		1
57	New generation quasi-monolithic integration technology (QMIT). , 0, , .		1
58	Reliable neural modeling of pHEMT from a smaller number of measurement data. , 2002, , .		1
59	Heat transfer improvement in quasi-monolithic integration technology. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2005, 4, 033011.	0.9	1
60	Future Prospect of Nanoelectronic Devices. Lecture Notes in Electrical Engineering, 2013, , 171-279.	0.4	1
61	A computational study of solvent effects on polymer photovoltaics considering the field dependendent series resistance. , 2014, , .		1
62	In-depth analysis of solvent effects on bulk heterojunction solar cell performance. Proceedings of SPIE, 2014, , .	0.8	1
63	Using a network of ports for shielding effectiveness optimization of an enclosure with arbitrary shape apertures. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2018, 31, e2334.	1.9	1
64	Design of X-band Power Amplifier Based on the Partitioning Design Approach. , 2018, , .		1
65	Performance dependence of self-aligned dual-gate poly-Si TFTs on localized defective regions. Semiconductor Science and Technology, 2020, 35, 085027.	2.0	1
66	High onâ€“off current ratio titanium oxynitride write-once-read-many-times memory. Semiconductor Science and Technology, 2021, 36, 06LT01.	2.0	1
67	Memory Devices. Lecture Notes in Electrical Engineering, 2013, , 29-157.	0.4	1
68	Tensile Mechanical Strain Effects on the Electrical Characteristics of Roll-to-Roll Printed OSC. IEEE Journal of Photovoltaics, 2022, 12, 737-743.	2.5	1
69	<title>Using a neural networks algorithm for high-resolution imaging in pulsed laser radar</title>. , 2001, , .		0
70	<title>Using scanning probe microscopy and nanomoter surface profiler of DEKTAK for determination of thermal stress in quasi-monolithic integration technology (QMIT)</title>. , 2001, , .		0
71	Neural Method for Two Dimensional (2D) High Contrast Imaging in Pulsed Laser Radar. , 2001, , .		0
72	Electromagnetic modeling of an enclosure with an aperture excited by an external thin wire. , 2017, , .		0

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73	An approach for one dimensional periodic arbitrary lithography based on Fourier series. Engineering Science and Technology, an International Journal, 2021, 24, 343-347.	3.2	0
74	Logic Devices. Lecture Notes in Electrical Engineering, 2013, , 5-28.	0.4	0
75	Design and Implementation of SIW Cavity Oscillators for Humidity Sensing Applications. , 2020, , .		0