

Donald Gardner

List of Publications by Year in descending order

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32
papers

1,590
citations

471509

17
h-index

642732

23
g-index

32
all docs

32
docs citations

32
times ranked

1032
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of On-Chip Inductor Structures With Magnetic Films. IEEE Transactions on Magnetics, 2009, 45, 4760-4766.	2.1	286
2	A 233-MHz 80%-87% efficient four-phase DC-DC converter utilizing air-core inductors on package. IEEE Journal of Solid-State Circuits, 2005, 40, 838-845.	5.4	262
3	Mechanical stress as a function of temperature in aluminum films. IEEE Transactions on Electron Devices, 1988, 35, 2160-2169.	3.0	151
4	Mechanical stress as a function of temperature for aluminum alloy films. Journal of Applied Physics, 1990, 67, 1831-1844.	2.5	96
5	Integrated on-chip inductors using magnetic material (invited). Journal of Applied Physics, 2008, 103, .	2.5	96
6	Integrated On-Chip Inductors With Magnetic Films. IEEE Transactions on Magnetics, 2007, 43, 2615-2617.	2.1	82
7	Overcoming Early-Life Failure and Aging for Robust Systems. IEEE Design and Test of Computers, 2009, 26, 28-39.	1.0	64
8	Observations of electromigration induced void nucleation and growth in polycrystalline and near- ϵ -bamboo passivated Al lines. Journal of Applied Physics, 1995, 78, 1026-1032.	2.5	57
9	QED: Quick Error Detection tests for effective post-silicon validation. , 2010, , .		54
10	High Voltage Tolerant Linear Regulator With Fast Digital Control for Biasing of Integrated DC-DC Converters. IEEE Journal of Solid-State Circuits, 2007, 42, 66-73.	5.4	53
11	Performance Enhancement of On-Chip Inductors With Permalloy Magnetic Rings. IEEE Electron Device Letters, 2011, 32, 69-71.	3.9	46
12	Integrated RF On-Chip Inductors With Patterned Co-Zr-Ta-B Films. IEEE Transactions on Magnetics, 2012, 48, 4123-4126.	2.1	44
13	Design techniques for cross-layer resilience. , 2010, , .		41
14	Effective Post-Silicon Validation of System-on-Chips Using Quick Error Detection. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2014, 33, 1573-1590.	2.7	38
15	Integrated On-Chip Inductors with Magnetic Films. , 2006, , .		26
16	Encapsulated copper interconnection devices using sidewall barriers. Thin Solid Films, 1995, 262, 104-119.	1.8	25
17	Concurrent autonomous self-test for uncore components in system-on-chips. , 2010, , .		25
18	Microring and microdisk optical resonators using silicon nanocrystals and erbium prepared using silicon technology. Optical Materials, 2005, 27, 804-811.	3.6	21

#	ARTICLE	IF	CITATIONS
19	Sub-100 nm scale on-chip inductors with CoZrTa for GHz applications. Journal of Applied Physics, 2011, 109, .	2.5	20
20	Improved High Frequency Response and Quality Factor of On-Chip Ferromagnetic Thin Film Inductors by Laminating and Patterning Co-Zr-Ta-B Films. IEEE Transactions on Magnetics, 2013, 49, 4176-4179.	2.1	20
21	High-frequency nanostructured magnetic materials for integrated inductors. Journal of Magnetism and Magnetic Materials, 2008, 320, 2509-2512.	2.3	18
22	Observation of voids induced by mechanical stress and electromigration in passivated Al lines deposited at different purity levels. Applied Physics Letters, 1994, 64, 2424-2426.	3.3	15
23	Electrodeposited amorphous Co-P based alloy with improved thermal stability. Journal of Magnetism and Magnetic Materials, 2010, 322, 1536-1539.	2.3	11
24	Optimization of magnetic enhancement layers for high-frequency stripline micro-inductors. Journal of Magnetism and Magnetic Materials, 2010, 322, 1527-1531.	2.3	10
25	Detection of reactions and changes in thin film morphology using stress measurements. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1992, 10, 1426-1441.	2.1	8
26	Aspect ratio dependent saturation field in patterned amorphous Co-Zr-Ta-B thin films with uniaxial anisotropy. Journal of Applied Physics, 2014, 115, 17B904.	2.5	6
27	Low Voltage Buffered Bandgap Reference. , 2007, , .		5
28	Integration of magnetic materials into package RF and power inductors on organic substrates for system in package (SiP) applications. , 2014, , .		5
29	Control of magnetic flux and eddy currents in magnetic films for on-chip radio frequency inductors: Role of the magnetic vias. Journal of Applied Physics, 2014, 115, .	2.5	5
30	Detection of reactions and changes in thin film morphology using stress measurements. AIP Conference Proceedings, 1992, , .	0.4	0
31	Electrochemical Fabrication of Multi-Nanolayers. , 2015, , 1-27.		0
32	Electrochemical Fabrication of Multi-Nanolayers. , 2015, , 1-27.		0