

# John D Cressler

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

275  
papers

2,918  
citations

25  
h-index

35  
g-index

297  
ext. papers

3,615  
ext. citations

2.1  
avg, IF

5.25  
L-index

#	Paper	IF	Citations
275	Single-Event Transients in a Commercially-Available, Integrated Germanium Photodiode for Silicon Photonic Systems. <i>IEEE Transactions on Nuclear Science</i> , <b>2022</b> , 1-1	1.7	
274	Total-Ionizing-Dose Response of SiGe HBTs at Elevated Temperatures. <i>IEEE Transactions on Nuclear Science</i> , <b>2022</b> , 1-1	1.7	
273	Voltage-Controlled Oscillator Utilizing Inverse-Mode SiGe-HBT Biasing Circuit for the Mitigation of Single-Event Effects. <i>IEEE Transactions on Nuclear Science</i> , <b>2022</b> , 1-1	1.7	
272	An Efficient, Broadband SiGe HBT Non-Uniform Distributed Power Amplifier Leveraging a Compact, Two-Section $\Gamma/4$ Output Impedance Transformer. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2022</b> , 1-1	4.1	1
271	A 204 GHz SiGe HBT Cascode Non-uniform Distributed Power Amplifier Using A Compact, Wideband Two-Section Lumped Element Output Impedance Transformer <b>2021</b> ,		1
270	Modeling Transient Loss Due to Ionizing Particles in Silicon Photonic Waveguides. <i>IEEE Transactions on Nuclear Science</i> , <b>2021</b> , 1-1	1.7	
269	Using Machine Learning to Mitigate Single-Event Upsets in RF Circuits and Systems. <i>IEEE Transactions on Nuclear Science</i> , <b>2021</b> , 1-1	1.7	
268	A Millimeter-Wave, Transformer-Based, SiGe Distributed Attenuator. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2021</b> , 1-4	2.6	1
267	Response of Integrated Silicon Microwave pin Diodes to X-ray and Fast-Neutron Irradiation. <i>IEEE Transactions on Nuclear Science</i> , <b>2021</b> , 1-1	1.7	
266	Operation of Current Mirrors in SiGe BiCMOS Technology at Cryogenic Temperatures. <i>IEEE Transactions on Electron Devices</i> , <b>2021</b> , 68, 1439-1445	2.9	1
265	A New Emitter-Base-Collector-Base-Emitter SiGe HBT for High Power, Single-Pole Double-Throw X-Band Switches. <i>IEEE Electron Device Letters</i> , <b>2021</b> , 42, 465-468	4.4	1
264	Integrated Silicon Photonics for Enabling Next-Generation Space Systems. <i>Photonics</i> , <b>2021</b> , 8, 131	2.2	5
263	Optical Single-Event Transients Induced in Integrated Silicon-Photonic Waveguides by Two-Photon Absorption. <i>IEEE Transactions on Nuclear Science</i> , <b>2021</b> , 68, 785-792	1.7	8
262	Millimeter-Wave SiGe Radiometer Front End With Transformer-Based Dicke Switch and On-Chip Calibration Noise Source. <i>IEEE Journal of Solid-State Circuits</i> , <b>2021</b> , 56, 1464-1474	5.5	4
261	Variability in Total-Ionizing-Dose Response of Fourth-Generation SiGe HBTs. <i>IEEE Transactions on Nuclear Science</i> , <b>2021</b> , 68, 949-957	1.7	4
260	Design Methodology for a Wideband, Low Insertion Loss, Digital Step Attenuator in SiGe BiCMOS Technology. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2021</b> , 1-1	3.5	1
259	Triaxial Balun With Inherent Harmonic Reflection for Millimeter-Wave Frequency Doublers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2021</b> , 1-1	4.1	1

258	Variability of p-n Junctions and SiGe HBTs at Cryogenic Temperatures. <i>IEEE Transactions on Electron Devices</i> , <b>2021</b> , 68, 987-993	2.9	2
257	A 60-GHz SiGe Power Amplifier With Three-Conductor Transmission-Line-Based Wilkinson Baluns and Asymmetric Directional Couplers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2021</b> , 69, 709-722	4.1	2
256	A Two-Way Wideband Active SiGe BiCMOS Power Divider/Combiner for Reconfigurable Phased Arrays With Controllable Beam Width. <i>IEEE Access</i> , <b>2020</b> , 8, 2578-2589	3.5	2
255	Tradeoffs Between RF Performance and SET Robustness in Low-Noise Amplifiers in a Complementary SiGe BiCMOS Platform. <i>IEEE Transactions on Nuclear Science</i> , <b>2020</b> , 67, 1521-1529	1.7	2
254	A 60-GHz SiGe Radiometer Calibration Switch Utilizing a Coupled Avalanche Noise Source. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2020</b> , 30, 417-420	2.6	11
253	Highly Linear High-Power 802.11ac/ax WLAN SiGe HBT Power Amplifiers With a Compact 2nd-Harmonic-Shorted Four-Way Transformer and a Thermally Compensating Dynamic Bias Circuit. <i>IEEE Journal of Solid-State Circuits</i> , <b>2020</b> , 55, 2356-2370	5.5	8
252	. <i>IEEE Transactions on Nuclear Science</i> , <b>2020</b> , 67, 296-304	1.7	5
251	Comparison of Single-Event Transients in SiGe HBTs on Bulk and Thick-Film SOI. <i>IEEE Transactions on Nuclear Science</i> , <b>2020</b> , 67, 71-80	1.7	4
250	New Approach for Pulsed-Laser Testing That Mimics Heavy-Ion Charge Deposition Profiles. <i>IEEE Transactions on Nuclear Science</i> , <b>2020</b> , 67, 81-90	1.7	12
249	Electronic-to-Photonic Single-Event Transient Propagation in a Segmented Mach-Zehnder Modulator in a Si/SiGe Integrated Photonics Platform. <i>IEEE Transactions on Nuclear Science</i> , <b>2020</b> , 67, 260-267	1.7	1
248	Single-Event Transients in SiGe HBTs Induced by Pulsed X-Ray Microbeam. <i>IEEE Transactions on Nuclear Science</i> , <b>2020</b> , 67, 91-98	1.7	
247	A D-band SiGe Frequency Doubler with a Harmonic Reflector Embedded in a Triaxial Balun <b>2020</b> ,		2
246	Investigation of FT-Doubler Technique to Improve RF Performance of Inverse-Mode SiGe HBTs. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2020</b> , 30, 873-875	2.6	1
245	A New Wideband, Low Insertion Loss, High Linearity SiGe RF Switch. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2020</b> , 30, 985-988	2.6	7
244	Dual-Band Millimeter-Wave Quadrature LO Generation With a Common-Centroid Floorplan. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2020</b> , 67, 260-264	3.5	1
243	A Compact, High-Power, 60 GHz SPDT Switch Using Shunt-Series SiGe PIN Diodes <b>2019</b> ,		2
242	Total Ionizing Dose Effects in 70-GHz Bandwidth Photodiodes in a SiGe Integrated Photonics Platform. <i>IEEE Transactions on Nuclear Science</i> , <b>2019</b> , 66, 125-133	1.7	10
241	High energy swift heavy ion irradiation and annealing effects on DC electrical characteristics of 200 GHz SiGe HBTs. <i>Nuclear Engineering and Technology</i> , <b>2019</b> , 51, 1428-1435	2.6	2

240	Using Bessel beams and two-photon absorption to predict radiation effects in microelectronics. <i>Optics Express</i> , <b>2019</b> , 27, 37652-37666	3.3	7
239	DC and RF Variability of SiGe HBTs Operating Down to Deep Cryogenic Temperatures <b>2019</b> ,		4
238	Optimizing Optical Parameters to Facilitate Correlation of Laser- and Heavy-Ion-Induced Single-Event Transients in SiGe HBTs. <i>IEEE Transactions on Nuclear Science</i> , <b>2019</b> , 66, 359-367	1.7	14
237	The Effects of Temperature on the Single-Event Transient Response of a High-Voltage (>30 V) Complementary SiGe-on-SOI Technology. <i>IEEE Transactions on Nuclear Science</i> , <b>2019</b> , 66, 389-396	1.7	
236	Best Practices for Using Electrostatic Discharge Protection Techniques for Single-Event Transient Mitigation. <i>IEEE Transactions on Nuclear Science</i> , <b>2019</b> , 66, 240-247	1.7	3
235	Single-Event Upset Mitigation in a Complementary SiGe HBT BiCMOS Technology. <i>IEEE Transactions on Nuclear Science</i> , <b>2018</b> , 65, 231-238	1.7	3
234	Limiting Effects on the Design of Vertical Superjunction Collectors in SiGe HBTs. <i>IEEE Transactions on Electron Devices</i> , <b>2018</b> , 65, 793-797	2.9	
233	A Highly Efficient X-Band Inverse Class-F SiGe HBT Cascode Power Amplifier With Harmonic-Tuned Wilkinson Power Combiner. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2018</b> , 65, 1609-1613	2.5	5
232	p-n-p-Based RF Switches for the Mitigation of Single-Event Transients in a Complementary SiGe BiCMOS Platform. <i>IEEE Transactions on Nuclear Science</i> , <b>2018</b> , 65, 391-398	1.7	5
231	Utilizing SiGe HBT Power Detectors for Sensing Single-Event Transients in RF Circuits. <i>IEEE Transactions on Nuclear Science</i> , <b>2018</b> , 65, 239-248	1.7	4
230	An Electrostatic Discharge Protection Circuit Technique for the Mitigation of Single-Event Transients in SiGe BiCMOS Technology. <i>IEEE Transactions on Nuclear Science</i> , <b>2018</b> , 65, 426-431	1.7	3
229	Design and Analysis of a Low Loss, Wideband Digital Step Attenuator With Minimized Amplitude and Phase Variations. <i>IEEE Journal of Solid-State Circuits</i> , <b>2018</b> , 53, 2202-2213	5.5	28
228	Hot-Carrier-Damage-Induced Current Gain Enhancement (CGE) Effects in SiGe HBTs. <i>IEEE Transactions on Electron Devices</i> , <b>2018</b> , 65, 2430-2438	2.9	7
227	Experimental Validation of an Equivalent LET Approach for Correlating Heavy-Ion and Laser-Induced Charge Deposition. <i>IEEE Transactions on Nuclear Science</i> , <b>2018</b> , 65, 1724-1733	1.7	18
226	A Compact Highly Efficient High-Power Ka-band SiGe HBT Cascode Frequency Doubler With Four-Way Input Transformer Balun. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2018</b> , 66, 2879-2887	4.1	9
225	Collector Transport in SiGe HBTs Operating at Cryogenic Temperatures. <i>IEEE Transactions on Electron Devices</i> , <b>2018</b> , 65, 3697-3703	2.9	9
224	Potential Limitations on Integrated Silicon Photonic Waveguides Operating in a Heavy Ion Environment. <i>IEEE Transactions on Nuclear Science</i> , <b>2018</b> , 65, 141-148	1.7	12
223	SiGe HBT Profiles With Enhanced Inverse-Mode Operation and Their Impact on Single-Event Transients. <i>IEEE Transactions on Nuclear Science</i> , <b>2018</b> , 65, 399-406	1.7	6

222	A True Time Delay-based SiGe Bi-directional T/R Chipset for Large-Scale Wideband Timed Array Antennas <b>2018</b> ,		14
221	Next Generation of Automotive Radar with Leading-Edge Advances in SiGe Devices and Glass Panel Embedding (GPE) <b>2018</b> ,		2
220	. <i>IEEE Transactions on Device and Materials Reliability</i> , <b>2018</b> , 18, 613-619	1.6	
219	A \$Ka\$ -Band SiGe Bootstrapped Gilbert Frequency Doubler With 26.2% PAE. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2018</b> , 28, 1122-1124	2.6	6
218	Revisiting Safe Operating Area: SiGe HBT Aging Models for Reliability-Aware Circuit Design <b>2018</b> ,		1
217	A V-Band SiGe Image-Reject Receiver Front-End for Atmospheric Remote Sensing <b>2018</b> ,		4
216	A Low-Loss Broadband Quadrature Signal Generation Network for High Image Rejection at Millimeter-Wave Frequencies. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2018</b> , 66, 5336-5346	4.1	8
215	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2018</b> , 66, 3866-3876	4.1	7
214	On the Application of Inverse-Mode SiGe HBTs in RF Receivers for the Mitigation of Single-Event Transients. <i>IEEE Transactions on Nuclear Science</i> , <b>2017</b> , 64, 1142-1150	1.7	7
213	Modeling Single-Event Transient Propagation in a SiGe BiCMOS Direct-Conversion Receiver. <i>IEEE Transactions on Nuclear Science</i> , <b>2017</b> , 1-1	1.7	3
212	A 0.3-0.5 GHz SiGe LNA With >1 THz Gain-Bandwidth Product. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2017</b> , 27, 380-382	2.6	10
211	Operation of SiGe HBTs Down to 70 mK. <i>IEEE Electron Device Letters</i> , <b>2017</b> , 38, 12-15	4.4	18
210	Single-Event Effects in High-Frequency Linear Amplifiers: Experiment and Analysis. <i>IEEE Transactions on Nuclear Science</i> , <b>2017</b> , 64, 125-132	1.7	3
209	. <i>IEEE Transactions on Nuclear Science</i> , <b>2017</b> , 64, 406-414	1.7	16
208	Physical Differences in Hot Carrier Degradation of Oxide Interfaces in Complementary (n-p-n+p-n-p) SiGe HBTs. <i>IEEE Transactions on Electron Devices</i> , <b>2017</b> , 64, 37-44	2.9	7
207	Using TCAD Modeling to Compare Heavy-Ion and Laser-Induced Single Event Transients in SiGe HBTs. <i>IEEE Transactions on Nuclear Science</i> , <b>2017</b> , 64, 398-405	1.7	20
206	Single-Event Effects in a Millimeter-Wave Receiver Front-End Implemented in 90 nm, 300 GHz SiGe HBT Technology. <i>IEEE Transactions on Nuclear Science</i> , <b>2017</b> , 64, 536-543	1.7	4
205	An X-band inverse class-F SiGe HBT cascode power amplifier With harmonic-tuned output transformer <b>2017</b> ,		4

204	. <i>IEEE Transactions on Electron Devices</i> , <b>2017</b> , 64, 3748-3755	2.9	3
203	<b>2017</b> ,		2
202	Total Ionizing Dose Effects on a High-Voltage (>30V) Complementary SiGe on SOI Technology. <i>IEEE Transactions on Nuclear Science</i> , <b>2017</b> , 64, 277-284	1.7	4
201	Single-Event Transient Response of Comparator Pre-Amplifiers in a Complementary SiGe Technology. <i>IEEE Transactions on Nuclear Science</i> , <b>2017</b> , 64, 89-96	1.7	7
200	The Use of Inverse-Mode SiGe HBTs as Active Gain Stages in Low-Noise Amplifiers for the Mitigation of Single-Event Transients. <i>IEEE Transactions on Nuclear Science</i> , <b>2017</b> , 64, 359-366	1.7	5
199	Wideband active bi-directional SiGe digital step attenuator using an active DPDT switch <b>2016</b> ,		1
198	Modeling of high-current damage in SiGe HBTs under pulsed stress <b>2016</b> ,		3
197	A Physics-Based Circuit Aging Model for Mixed-Mode Degradation in SiGe HBTs. <i>IEEE Transactions on Electron Devices</i> , <b>2016</b> , 63, 2987-2993	2.9	12
196	An Active Bi-Directional SiGe DPDT Switch With Multi-Octave Bandwidth. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2016</b> , 26, 279-281	2.6	9
195	An Investigation of Single-Event Effect Modeling Techniques for a SiGe RF Low-Noise Amplifier. <i>IEEE Transactions on Nuclear Science</i> , <b>2016</b> , 63, 273-280	1.7	9
194	The effects of total ionizing dose on the transient response of SiGe BiCMOS technologies <b>2016</b> ,		1
193	SiGe Technology as a Millimeter-Wave Platform: Scaling Issues, Reliability Physics, Circuit Performance, and New Opportunities <b>2016</b> ,		3
192	A SiGe-BiCMOS Wideband (20-22 GHz) Active Power Divider/Combiner Circuit Supporting Bidirectional Operation. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2016</b> , 64, 4676-4684	4.1	10
191	An Investigation of the Use of Inverse-Mode SiGe HBTs as Switching Pairs for SET-Mitigated RF Mixers. <i>IEEE Transactions on Nuclear Science</i> , <b>2016</b> , 63, 1099-1108	1.7	11
190	A Compact, Wideband Lumped-Element Wilkinson Power Divider/Combiner Using Symmetric Inductors with Embedded Capacitors. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2016</b> , 26, 595-597	2.6	10
189	Design and On-Wafer Characterization of S-Band SiGe HBT Low-Noise Amplifiers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2016</b> , 64, 3631-3642	4.1	15
188	Inverse class-F X-band SiGe HBT power amplifier with 44% PAE and 24.5 dBm peak output power. <i>Microwave and Optical Technology Letters</i> , <b>2016</b> , 58, 2868-2871	1.2	1
187	On the Cryogenic RF Linearity of SiGe HBTs in a Fourth-Generation 90-nm SiGe BiCMOS Technology. <i>IEEE Transactions on Electron Devices</i> , <b>2015</b> , 62, 1127-1135	2.9	5

186	Bias- and Temperature-Dependent Accumulated Stress Modeling of Mixed-Mode Damage in SiGe HBTs. <i>IEEE Transactions on Electron Devices</i> , <b>2015</b> , 62, 2084-2091	2.9	13
185	A Comparison of Field and Current-Driven Hot-Carrier Reliability in NPN SiGe HBTs. <i>IEEE Transactions on Electron Devices</i> , <b>2015</b> , 62, 2244-2250	2.9	11
184	. <i>IEEE Transactions on Electron Devices</i> , <b>2015</b> , 62, 1383-1389	2.9	20
183	A Comparison of the Degradation in RF Performance Due to Device Interconnects in Advanced SiGe HBT and CMOS Technologies. <i>IEEE Transactions on Electron Devices</i> , <b>2015</b> , 62, 1803-1810	2.9	30
182	The reliability studies of nano-engineered SiGe HBTs using Pelletron accelerator <b>2015</b> ,		1
181	A Class-E Tuned W-Band SiGe Power Amplifier With 40.4% Power-Added Efficiency at 93 GHz. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2015</b> , 25, 663-665	2.6	20
180	A W-band integrated silicon-germanium loop-back and front-end transmit-receive switch for Built-in-self-test <b>2015</b> ,		3
179	Wide temperature range SiGe HBT noise parameter modeling and LNA design for extreme environment Electronics. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , <b>2015</b> , 28, 675-683	1	3
178	Optimization of SiGe HBT RF Switches for Single-Event Transient Mitigation. <i>IEEE Transactions on Nuclear Science</i> , <b>2015</b> , 62, 3057-3063	1.7	7
177	An Investigation of the SET Response of Devices and Differential Pairs in a 32-nm SOI CMOS Technology. <i>IEEE Transactions on Nuclear Science</i> , <b>2015</b> , 62, 2643-2649	1.7	1
176	Optimizing the vertical profile of SiGe HBTs to mitigate radiation-induced upsets <b>2015</b> ,		3
175	Single-Event Effects in a W-Band (75-110 GHz) Radar Down-Conversion Mixer Implemented in 90 nm, 300 GHz SiGe HBT Technology. <i>IEEE Transactions on Nuclear Science</i> , <b>2015</b> , 62, 2657-2665	1.7	8
174	The Role of Negative Feedback Effects on Single-Event Transients in SiGe HBT Analog Circuits. <i>IEEE Transactions on Nuclear Science</i> , <b>2015</b> , 62, 2599-2605	1.7	2
173	A SiGe D-Band Low-Noise Amplifier Utilizing Gain-Boosting Technique. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2015</b> , 25, 61-63	2.6	16
172	80 MeV Carbon Ion Irradiation Effects On Advanced 200 GHz Silicon-germanium Heterojunction Bipolar Transistors. <i>Advanced Materials Letters</i> , <b>2015</b> , 6, 120-126	2.4	5
171	Hot-Carrier Degradation in Silicon-Germanium Heterojunction Bipolar Transistors <b>2015</b> , 371-398		3
170	. <i>IEEE Transactions on Nuclear Science</i> , <b>2014</b> , 61, 756-765	1.7	9
169	A Low-Loss and High Isolation D-Band SPDT Switch Utilizing Deep-Saturated SiGe HBTs. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2014</b> , 24, 400-402	2.6	24

168	On the Analysis and Design of Low-Loss Single-Pole Double-Throw W-Band Switches Utilizing Saturated SiGe HBTs. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2014</b> , 62, 2755-2767	4.1	80
167	Advanced SiGe BiCMOS Technology for Multi-Mrad Electronic Systems. <i>IEEE Transactions on Device and Materials Reliability</i> , <b>2014</b> , 14, 844-848	1.6	15
166	A switchable-core SiGe HBT low-noise amplifier for millimeter-wave radiometer applications <b>2014</b> ,		2
165	A 94 GHz, 1.4 dB Insertion Loss Single-Pole Double-Throw Switch Using Reverse-Saturated SiGe HBTs. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2014</b> , 24, 56-58	2.6	25
164	A SiGe 808-GHz Receiver With Built-In-Testing Capability for Self-Healing Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2014</b> , 62, 2370-2380	4.1	8
163	Impact of Technology Scaling in sub-100 nm nMOSFETs on Total-Dose Radiation Response and Hot-Carrier Reliability. <i>IEEE Transactions on Nuclear Science</i> , <b>2014</b> , 61, 1426-1432	1.7	13
162	<b>2014</b> ,		13
161	A 0.8 THz $f_{\text{MAX}}$ SiGe HBT Operating at 4.3 K. <i>IEEE Electron Device Letters</i> , <b>2014</b> , 35, 151-153	4.4	47
160	Impact of Total Ionizing Dose on a 4th Generation, 90 nm SiGe HBT Gaussian Pulse Generator. <i>IEEE Transactions on Nuclear Science</i> , <b>2014</b> , 61, 3050-3054	1.7	8
159	Single-Event Transient and Total Dose Response of Precision Voltage Reference Circuits Designed in a 90-nm SiGe BiCMOS Technology. <i>IEEE Transactions on Nuclear Science</i> , <b>2014</b> , 61, 3210-3217	1.7	14
158	W-band SiGe power amplifiers <b>2014</b> ,		8
157	An Investigation of Single-Event Transients in C-SiGe HBT on SOI Current Mirror Circuits. <i>IEEE Transactions on Nuclear Science</i> , <b>2014</b> , 61, 3193-3200	1.7	11
156	<b>2014</b> ,		4
155	Evaluation of Enhanced Low Dose Rate Sensitivity in Fourth-Generation SiGe HBTs. <i>IEEE Transactions on Nuclear Science</i> , <b>2014</b> , 61, 2915-2922	1.7	11
154	On the Transient Response of a Complementary (nnp $\beta$ pnp) SiGe HBT BiCMOS Technology. <i>IEEE Transactions on Nuclear Science</i> , <b>2014</b> , 61, 3146-3153	1.7	11
153	Design of Radiation-Hardened RF Low-Noise Amplifiers Using Inverse-Mode SiGe HBTs. <i>IEEE Transactions on Nuclear Science</i> , <b>2014</b> , 61, 3218-3225	1.7	26
152	Mitigation of Total Dose Performance Degradation in an 808 GHz SiGe Reconfigurable Receiver. <i>IEEE Transactions on Nuclear Science</i> , <b>2014</b> , 61, 3226-3235	1.7	1
151	A digitally-controlled seven-state X-band SiGe variable gain low noise amplifier <b>2014</b> ,		2



150	A 1.0 V, 100 GHz, 4 mW LNA Utilizing Weakly Saturated SiGe HBTs for Single-Chip, Low-Power, Remote Sensing Applications. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2014</b> , 24, 890-892	2.6	11
149	A Comparison of Hot Carrier and 50 MeV Li <sup>3+</sup> Ion Induced Degradation in the Electrical Characteristics of Advanced 200 GHz SiGe HBT. <i>Environmental Science and Engineering</i> , <b>2014</b> , 113-116	0.2	
148	An Investigation of Single Event Transient Response in 45-nm and 32-nm SOI RF-CMOS Devices and Circuits. <i>IEEE Transactions on Nuclear Science</i> , <b>2013</b> , 60, 4405-4411	1.7	13
147	In situ investigation of 75 MeV boron and 100 MeV oxygen ion irradiation effects on 50 GHz silicon-germanium heterojunction bipolar transistors. <i>Radiation Effects and Defects in Solids</i> , <b>2013</b> , 168, 620-624	0.9	5
146	TCAD modeling of accumulated damage during time-dependent mixed-mode stress <b>2013</b> ,		6
145	A design methodology to achieve low input impedance and non-constant gain-bandwidth product in TIAs for optical communication <b>2013</b> ,		2
144	An Investigation on the Optimization and Scaling of Complementary SiGe HBTs. <i>IEEE Transactions on Electron Devices</i> , <b>2013</b> , 60, 34-41	2.9	3
143	Radiation Effects in SiGe Technology. <i>IEEE Transactions on Nuclear Science</i> , <b>2013</b> , 60, 1992-2014	1.7	103
142	Integrated, digitally controlled, 64-element SiGe on multilayer organic X-band phased-array receiver antenna for snow measurements. <i>IEEE Aerospace and Electronic Systems Magazine</i> , <b>2013</b> , 28, 26-39	2.4	1
141	Total Ionizing Dose Response of Triple-Well FET-Based Wideband, High-Isolation RF Switches in a 130 nm SiGe BiCMOS Technology. <i>IEEE Transactions on Nuclear Science</i> , <b>2013</b> , 60, 2567-2573	1.7	11
140	An Investigation of Single-Event Effects and Potential SEU Mitigation Strategies in Fourth-Generation, 90 nm SiGe BiCMOS. <i>IEEE Transactions on Nuclear Science</i> , <b>2013</b> , 60, 4175-4183	1.7	17
139	A compact, transformer-based 60 GHz SPDT RF switch utilizing diode-connected SiGe HBTs <b>2013</b> ,		8
138	Integrated silicon-germanium electronics for CubeSat-based radiometers <b>2013</b> ,		5
137	Reliability studies on NPN RF power transistors under swift heavy ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2012</b> , 273, 36-39	1.2	15
136	Application of a Pelletron accelerator to study total dose radiation effects on 50 GHz SiGe HBTs. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2012</b> , 273, 43-46	1.2	19
135	Total Dose and Transient Response of SiGe HBTs from a New 4th-Generation, 90 nm SiGe BiCMOS Technology <b>2012</b> ,		15
134	A new approach to designing electronic systems for operation in extreme environments: Part I - The SiGe Remote Sensor Interface. <i>IEEE Aerospace and Electronic Systems Magazine</i> , <b>2012</b> , 27, 25-34	2.4	11
133	An 80 GHz SiGe Low Noise Amplifier With Performance Tuning Capability for Mitigation of Radiation-Induced Performance Loss. <i>IEEE Transactions on Nuclear Science</i> , <b>2012</b> , 59, 2837-2846	1.7	25

132	An Ultra-Thin, High-Power, and Multilayer Organic Antenna Array With T/R Functionality in the X-Band. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2012</b> , 60, 3856-3867	4.1	7
131	A 60 GHz Adaptive SiGe Image Reject Mixer for a Self-Healing Receiver. <i>IEEE Journal of Solid-State Circuits</i> , <b>2012</b> , 47, 1998-2006	5.5	14
130	Single-Event Response of the SiGe HBT Operating in Inverse-Mode. <i>IEEE Transactions on Nuclear Science</i> , <b>2012</b> , 59, 2682-2690	1.7	17
129	A New Self-Healing Methodology for RF Amplifier Circuits Based on Oscillation Principles. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2012</b> , 20, 1835-1848	2.6	31
128	Predictive Physics-Based TCAD Modeling of the Mixed-Mode Degradation Mechanism in SiGe HBTs. <i>IEEE Transactions on Electron Devices</i> , <b>2012</b> , 59, 2895-2901	2.9	28
127	<b>2012</b> ,		11
126	Establishing Best-Practice Modeling Approaches for Understanding Single-Event Transients in Gb/s SiGe Digital Logic. <i>IEEE Transactions on Nuclear Science</i> , <b>2012</b> , 59, 958-964	1.7	9
125	Accurate Modeling of Single-Event Transients in a SiGe Voltage Reference Circuit. <i>IEEE Transactions on Nuclear Science</i> , <b>2011</b> , 58, 877-884	1.7	10
124	A Lightweight Organic X-Band Active Receiving Phased Array With Integrated SiGe Amplifiers and Phase Shifters. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 100-109	4.9	21
123	A Study of Total Dose Mitigation Approaches for Charge Pumps in Phase-Locked Loop Applications. <i>IEEE Transactions on Nuclear Science</i> , <b>2011</b> , 58, 3038-3045	1.7	4
122	Design and Optimization of Superjunction Collectors for Use in High-Speed SiGe HBTs. <i>IEEE Transactions on Electron Devices</i> , <b>2011</b> , 58, 1655-1662	2.9	11
121	An Investigation of DC and RF Safe Operating Area of n-p-n and p-n-p SiGe HBTs on SOI. <i>IEEE Transactions on Electron Devices</i> , <b>2011</b> , 58, 2573-2581	2.9	8
120	Trade-Offs Between RF Performance and Total-Dose Tolerance in 45-nm RF-CMOS. <i>IEEE Transactions on Nuclear Science</i> , <b>2011</b> , 58, 2830-2837	1.7	16
119	Wide temperature range compact modeling of SiGe HBTs for space applications <b>2011</b> ,		5
118	Design of a 250-Gbit/s SiGe HBT Electrooptic Modulator. <i>IEEE Photonics Journal</i> , <b>2011</b> , 3, 897-914	1.8	4
117	On the RF Properties of Weakly Saturated SiGe HBTs and Their Potential Use in Ultralow-Voltage Circuits. <i>IEEE Electron Device Letters</i> , <b>2011</b> , 32, 3-5	4.4	11
116	50 MeV Li <sup>3+</sup> ion irradiation effects on advanced 200 GHz SiGe HBTs. <i>Radiation Effects and Defects in Solids</i> , <b>2011</b> , 166, 710-717	0.9	13
115	The effect of 63 MeV hydrogen ion irradiation on 65 GHz UHV/CVD SiGe HBT BiCMOS technology. <i>Radiation Effects and Defects in Solids</i> , <b>2011</b> , 166, 703-709	0.9	6

114	Wide-tuning range, amplitude-locked test signal source for self-healing, mixed-signal electronic systems <b>2011</b> ,		5
113	Impact of Source/Drain contact and gate finger spacing on the RF reliability of 45-nm RF nMOSFETs <b>2011</b> ,		4
112	A SiGe BiCMOS Instrumentation Channel for Extreme Environment Applications. <i>VLSI Design</i> , <b>2010</b> , 2010, 1-12		4
111	Design of Digital Circuits Using Inverse-Mode Cascode SiGe HBTs for Single Event Upset Mitigation. <i>IEEE Transactions on Nuclear Science</i> , <b>2010</b> ,	1.7	19
110	An investigation of collector-base transport in SiGe HBTs designed for half-Terahertz speeds <b>2010</b> ,		3
109	Impact of body tie and Source/Drain contact spacing on the hot carrier reliability of 45-nm RF-CMOS <b>2010</b> ,		6
108	Influence of Interface Traps on the Temperature Sensitivity of MOSFET Drain-Current Variations. <i>IEEE Electron Device Letters</i> , <b>2010</b> , 31, 387-389	4.4	8
107	Charge Collection and SEU in SiGe HBT Current Mode Logic Operating at Cryogenic Temperatures. <i>IEEE Transactions on Nuclear Science</i> , <b>2010</b> ,	1.7	2
106	Single Event Transient Hardness of a New Complementary (npn $\$+\$$ pnp) SiGe HBT Technology on Thick-Film SOI. <i>IEEE Transactions on Nuclear Science</i> , <b>2010</b> ,	1.7	2
105	Non-TMR SEU-Hardening Techniques for SiGe HBT Shift Registers and Clock Buffers. <i>IEEE Transactions on Nuclear Science</i> , <b>2010</b> , 57, 2119-2123	1.7	3
104	A monolithic, wide-temperature, charge amplification channel for extreme environments <b>2010</b> ,		8
103	. <i>IEEE Transactions on Nuclear Science</i> , <b>2010</b> ,	1.7	4
102	A Theory of Single-Event Transient Response in Cross-Coupled Negative Resistance Oscillators. <i>IEEE Transactions on Nuclear Science</i> , <b>2010</b> ,	1.7	13
101	. <i>IEEE Transactions on Nuclear Science</i> , <b>2010</b> ,	1.7	9
100	. <i>IEEE Transactions on Device and Materials Reliability</i> , <b>2010</b> , 10, 437-448	1.6	42
99	Reconciling 3-D Mixed-Mode Simulations and Measured Single-Event Transients in SiGe HBTs. <i>IEEE Transactions on Nuclear Science</i> , <b>2010</b> , 57, 3342-3348	1.7	17
98	A large-signal RF reliability study of complementary SiGe HBTs on SOI intended for use in wireless applications <b>2010</b> ,		4
97	A $\#x2013$ 20 GHz SiGe HBT ultra-wideband LNA with gain and return loss control for multiband wireless applications <b>2010</b> ,		5

96	Measurement and Modeling of Carrier Transport Parameters Applicable to SiGe BiCMOS Technology Operating in Extreme Environments. <i>IEEE Transactions on Electron Devices</i> , <b>2010</b> , 57, 551-561	2.9	3
95	SiGe HBT CML Ring Oscillator With 2.3-ps Gate Delay at Cryogenic Temperatures. <i>IEEE Transactions on Electron Devices</i> , <b>2010</b> , 57, 1183-1187	2.9	4
94	Application of advanced 200 GHz SiGe HBTs for high dose radiation environments. <i>Solid-State Electronics</i> , <b>2010</b> , 54, 1554-1560	1.7	17
93	Reliability of SiGe HBTs for Power AmplifiersPart I: Large-Signal RF Performance and Operating Limits. <i>IEEE Transactions on Device and Materials Reliability</i> , <b>2009</b> , 9, 431-439	1.6	31
92	A Mechanism Versus SEU Impact Analysis of Collector Charge Collection in SiGe HBT Current Mode Logic. <i>IEEE Transactions on Nuclear Science</i> , <b>2009</b> , 56, 3071-3077	1.7	7
91	Optimizing Inverse-Mode SiGe HBTs for Immunity to Heavy-Ion-Induced Single-Event Upset. <i>IEEE Electron Device Letters</i> , <b>2009</b> , 30, 511-513	4.4	15
90	. <i>IEEE Transactions on Nuclear Science</i> , <b>2009</b> , 56, 3469-3476	1.7	22
89	An investigation of electron and oxygen ion damage in Si npn RF power transistors. <i>Radiation Effects and Defects in Solids</i> , <b>2009</b> , 164, 592-603	0.9	12
88	On the Performance Limits of Cryogenically Operated SiGe HBTs and Its Relation to Scaling for Terahertz Speeds. <i>IEEE Transactions on Electron Devices</i> , <b>2009</b> , 56, 1007-1019	2.9	37
87	Compact Modeling of Mutual Thermal Coupling for the Optimal Design of SiGe HBT Power Amplifiers. <i>IEEE Transactions on Electron Devices</i> , <b>2009</b> ,	2.9	17
86	Compact Modeling of the Temperature Dependence of Parasitic Resistances in SiGe HBTs Down to 30 K. <i>IEEE Transactions on Electron Devices</i> , <b>2009</b> , 56, 2169-2177	2.9	10
85	Low-frequency noise in buried-channel SiGe n-MODFETs. <i>Solid-State Electronics</i> , <b>2009</b> , 53, 901-904	1.7	3
84	Sub-1-K Operation of SiGe Transistors and Circuits. <i>IEEE Electron Device Letters</i> , <b>2009</b> , 30, 508-510	4.4	30
83	Heavy Ion Microbeam- and Broadbeam-Induced Transients in SiGe HBTs. <i>IEEE Transactions on Nuclear Science</i> , <b>2009</b> , 56, 3078-3084	1.7	31
82	A 6th order Butterworth SC low pass filter for cryogenic applications from 180K to 120K <b>2009</b> ,		1
81	Reliability of SiGe HBTs for Power AmplifiersPart II: Underlying Physics and Damage Modeling. <i>IEEE Transactions on Device and Materials Reliability</i> , <b>2009</b> , 9, 440-448	1.6	22
80	Impact of deep trench isolation on advanced SiGe HBT reliability in radiation environments <b>2009</b> ,		9
79	Junction Isolation Single Event Radiation Hardening of a 200 GHz SiGe:C HBT Technology Without Deep Trench Isolation. <i>IEEE Transactions on Nuclear Science</i> , <b>2009</b> , 56, 3402-3407	1.7	6

78	. <i>IEEE Transactions on Nuclear Science</i> , <b>2009</b> , 56, 3393-3401	1.7	18
77	A novel superjunction collector design for improving breakdown voltage in high-speed SiGe HBTs <b>2009</b> ,		2
76	An experimental investigation of RF safe-operating-area (SOA) in SiGe HBTs on SOI <b>2009</b> ,		4
75	Investigation of the device design challenges and optimization issues associated with complementary SiGe HBT scaling <b>2009</b> ,		2
74	A novel device structure using a shared-subcollector, cascoded inverse-mode SiGe HBT for enhanced radiation tolerance <b>2009</b> ,		4
73	Cryogenic matching performance of 90 nm MOSFETs <b>2009</b> ,		3
72	Re-Examining TID Hardness Assurance Test Protocols for SiGe HBTs. <i>IEEE Transactions on Nuclear Science</i> , <b>2009</b> , 56, 3318-3325	1.7	8
71	The Enhanced Role of Shallow-Trench Isolation in Ionizing Radiation Damage of 65 nm RF-CMOS on SOI. <i>IEEE Transactions on Nuclear Science</i> , <b>2009</b> , 56, 3256-3261	1.7	16
70	Impact of Proton Irradiation on the RF Performance of 65 nm SOI CMOS Technology. <i>IEEE Transactions on Nuclear Science</i> , <b>2009</b> , 56, 1914-1919	1.7	5
69	On CommonBase Avalanche Instabilities in SiGe HBTs. <i>IEEE Transactions on Electron Devices</i> , <b>2008</b> , 55, 1276-1285	2.9	13
68	A New Analytical Method for Robust Extraction of the Small-Signal Equivalent Circuit for SiGe HBTs Operating at Cryogenic Temperatures. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2008</b> , 56, 568-574	4.1	9
67	The Effects of Proton Irradiation on the Performance of High-Voltage n-MOSFETs Implemented in a Low-Voltage SiGe BiCMOS Platform. <i>IEEE Transactions on Nuclear Science</i> , <b>2008</b> , 55, 3253-3258	1.7	3
66	On the Radiation Tolerance of SiGe HBT and CMOS-Based Phase Shifters for Space-Based, Phased-Array Antenna Systems. <i>IEEE Transactions on Nuclear Science</i> , <b>2008</b> , 55, 3246-3252	1.7	5
65	A 12-Bit Cryogenic and Radiation-Tolerant Digital-to-Analog Converter for Aerospace Extreme Environment Applications. <i>IEEE Transactions on Industrial Electronics</i> , <b>2008</b> , 55, 2810-2819	8.9	12
64	Novel Total Dose and Heavy-Ion Charge Collection Phenomena in a New SiGe HBT on >Thin-Film SOI Technology. <i>IEEE Transactions on Nuclear Science</i> , <b>2008</b> , 55, 3197-3201	1.7	7
63	Emerging application opportunities for SiGe technology <b>2008</b> ,		6
62	Single Event Upset Mechanisms for Low-Energy-Deposition Events in SiGe HBTs. <i>IEEE Transactions on Nuclear Science</i> , <b>2008</b> , 55, 1581-1586	1.7	21
61	Probing Hot Carrier Phenomena in npn and pnp SiGe HBTs <b>2008</b> ,		5

60	3-D Mixed-Mode Simulation of Single Event Transients in SiGe HBT Emitter Followers and Resultant Hardening Guidelines. <i>IEEE Transactions on Nuclear Science</i> , <b>2008</b> , 55, 3360-3366	1.7	10
59	Laser-Induced Current Transients in Silicon-Germanium HBTs. <i>IEEE Transactions on Nuclear Science</i> , <b>2008</b> , 55, 2936-2942	1.7	29
58	Forced-IE pinch-in maximum output voltage limit in SiGe HBTs operating at cryogenic temperatures <b>2008</b> ,		1
57	Silicon-Germanium as an Enabling IC Technology for Extreme Environment Electronics. <i>Aerospace Conference Proceedings IEEE</i> , <b>2008</b> ,		6
56	Proton-induced SEU in SiGe digital logic at cryogenic temperatures. <i>Solid-State Electronics</i> , <b>2008</b> , 52, 1652-1659	1.7	16
55	SiGe HBT X-Band LNAs for Ultra-Low-Noise Cryogenic Receivers. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2008</b> , 18, 476-478	2.6	20
54	A Silicon-Germanium Receiver for X-Band Transmit/Receive Radar Modules. <i>IEEE Journal of Solid-State Circuits</i> , <b>2008</b> , 43, 1889-1896	5.5	45
53	On the Frequency Limits of SiGe HBTs for TeraHertz Applications. <i>Bipolar/BiCMOS Circuits and Technology Meeting, IEEE Proceedings of the</i> , <b>2007</b> ,		16
52	The Effects of X-Ray and Proton Irradiation on a 200 GHz/90 GHz Complementary (nnp + pnp) SiGe:C HBT Technology. <i>IEEE Transactions on Nuclear Science</i> , <b>2007</b> , 54, 2190-2195	1.7	14
51	3-D Simulation of SEU Hardening of SiGe HBTs Using Shared Dummy Collector. <i>IEEE Transactions on Nuclear Science</i> , <b>2007</b> , 54, 2330-2337	1.7	19
50	A Comparison of the Effects of X-Ray and Proton Irradiation on the Performance of SiGe Precision Voltage References. <i>IEEE Transactions on Nuclear Science</i> , <b>2007</b> , 54, 2238-2244	1.7	12
49	SiGe HBT compact modeling for extreme temperatures <b>2007</b> ,		11
48	The Radiation Tolerance of Strained Si/SiGe n-MODFETs. <i>IEEE Transactions on Nuclear Science</i> , <b>2007</b> , 54, 2251-2256	1.7	1
47	The Effects of Proton and X-Ray Irradiation on the DC and AC Performance of Complementary (nnp + pnp) SiGe HBTs on Thick-Film SOI. <i>IEEE Transactions on Nuclear Science</i> , <b>2007</b> , 54, 2245-2250	1.7	15
46	Proton-induced SEU in SiGe digital logic at cryogenic temperatures <b>2007</b> ,		3
45	An Evaluation of Transistor-Layout RHBD Techniques for SEE Mitigation in SiGe HBTs. <i>IEEE Transactions on Nuclear Science</i> , <b>2007</b> , 54, 2044-2052	1.7	30
44	The Application of RHBD to n-MOSFETs Intended for Use in Cryogenic-Temperature Radiation Environments. <i>IEEE Transactions on Nuclear Science</i> , <b>2007</b> , 54, 2100-2105	1.7	12
43	An Investigation of Negative Differential Resistance and Novel Collector Current Kink Effects in SiGe HBTs Operating at Cryogenic Temperatures. <i>IEEE Transactions on Electron Devices</i> , <b>2007</b> , 54, 504-516	2.9	8

42	Impact of Scaling on the Inverse-Mode Operation of SiGe HBTs. <i>IEEE Transactions on Electron Devices</i> , <b>2007</b> , 54, 1492-1501	2.9	16
41	The Effects of Scaling and Bias Configuration on Operating-Voltage Constraints in SiGe HBTs for Mixed-Signal Circuits. <i>IEEE Transactions on Electron Devices</i> , <b>2007</b> , 54, 1605-1616	2.9	16
40	Applications of heavy ion microprobe for single event effects analysis. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2007</b> , 261, 443-446	1.2	9
39	A Novel Circuit-Level SEU Hardening Technique for High-Speed SiGe HBT Logic Circuits. <i>IEEE Transactions on Nuclear Science</i> , <b>2007</b> , 54, 2086-2091	1.7	3
38	A Generalized SiGe HBT Single-Event Effects Model for On-Orbit Event Rate Calculations. <i>IEEE Transactions on Nuclear Science</i> , <b>2007</b> , 54, 2322-2329	1.7	22
37	A 2 mW, Sub-2 dB Noise Figure, SiGe Low-Noise Amplifier For X-band High-Altitude or Space-based Radar Applications. <i>Radio Frequency Integrated Circuits (RFIC) Symposium, IEEE</i> , <b>2007</b> ,		17
36	A Monolithic 5-Bit SiGe BiCMOS Receiver for X-Band Phased-Array Radar Systems. <i>Bipolar/BiCMOS Circuits and Technology Meeting, IEEE Proceedings of the</i> , <b>2007</b> ,		5
35	<b>2007</b> ,		15
34	The mixed-Mode Damage Spectrum of SiGe HBTs <b>2007</b> ,		2
33	Understanding Radiation- and Hot Carrier-Induced Damage Processes in SiGe HBTs Using Mixed-Mode Electrical Stress. <i>IEEE Transactions on Nuclear Science</i> , <b>2007</b> , 54, 1938-1945	1.7	8
32	A New Current-Sweep Method for Assessing the Mixed-Mode Damage Spectrum of SiGe HBTs. <i>IEEE Transactions on Device and Materials Reliability</i> , <b>2007</b> , 7, 479-487	1.6	11
31	Radiation response of SiGe BiCMOS mixed-signal circuits intended for emerging lunar applications <b>2007</b> ,		6
30	Using SiGe technology in extreme environments <b>2007</b> ,		2
29	A 10 Mbps SiGe BiCMOS Transceiver for Operation Down to Cryogenic Temperatures. <i>Bipolar/BiCMOS Circuits and Technology Meeting, IEEE Proceedings of the</i> , <b>2007</b> ,		3
28	Addressing challenges in device-circuit modeling for extreme environments of space <b>2007</b> ,		11
27	CMOS reliability issues for emerging cryogenic Lunar electronics applications. <i>Solid-State Electronics</i> , <b>2006</b> , 50, 959-963	1.7	23
26	SEU Error Signature Analysis of Gbit/s SiGe Logic Circuits Using a Pulsed Laser Microprobe. <i>IEEE Transactions on Nuclear Science</i> , <b>2006</b> , 53, 3277-3284	1.7	11
25	A High-Linearity 5-bit, X-band SiGe HBT Phase Shifter <b>2006</b> ,		9

24	A New Device Phenomenon in Cryogenically-Operated SiGe HBTs <b>2006</b> ,		3
23	The Effects of Proton Irradiation on 90 nm Strained Si CMOS on SOI Devices <b>2006</b> ,		9
22	Substrate Engineering Concepts to Mitigate Charge Collection in Deep Trench Isolation Technologies. <i>IEEE Transactions on Nuclear Science</i> , <b>2006</b> , 53, 3298-3305	1.7	35
21	An Investigation of Dose Rate and Source Dependent Effects in 200 GHz SiGe HBTs. <i>IEEE Transactions on Nuclear Science</i> , <b>2006</b> , 53, 3166-3174	1.7	35
20	Proton Tolerance of SiGe Precision Voltage References for Extreme Temperature Range Electronics. <i>IEEE Transactions on Nuclear Science</i> , <b>2006</b> , 53, 3210-3216	1.7	19
19	Analysis of Factors Contributing to Common-Base Avalanche Instabilities in Advanced SiGe HBTs. <i>Bipolar/BiCMOS Circuits and Technology Meeting, IEEE Proceedings of the</i> , <b>2006</b> ,		2
18	The Effects of Irradiation Temperature on the Proton Response of SiGe HBTs. <i>IEEE Transactions on Nuclear Science</i> , <b>2006</b> , 53, 3175-3181	1.7	32
17	Temperature-Dependence of Off-State Drain Leakage in X-Ray Irradiated 130 nm CMOS Devices. <i>IEEE Transactions on Nuclear Science</i> , <b>2006</b> , 53, 3203-3209	1.7	20
16	Sources of Phase Error and Design Considerations for Silicon-Based Monolithic High-Pass/Low-Pass Microwave Phase Shifters. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2006</b> , 54, 4032-4040	4.1	41
15	Application of RHBD Techniques to SEU Hardening of Third-Generation SiGe HBT Logic Circuits. <i>IEEE Transactions on Nuclear Science</i> , <b>2006</b> , 53, 3400-3407	1.7	33
14	X-Ray Irradiation and Bias Effects in Fully-Depleted and Partially-Depleted SiGe HBTs Fabricated on CMOS-Compatible SOI. <i>IEEE Transactions on Nuclear Science</i> , <b>2006</b> , 53, 3182-3186	1.7	11
13	A High-Slew Rate SiGe BiCMOS Operational Amplifier for Operation Down to Deep Cryogenic Temperatures. <i>Bipolar/BiCMOS Circuits and Technology Meeting, IEEE Proceedings of the</i> , <b>2006</b> ,		11
12	SiGe BiCMOS Precision Voltage References for Extreme Temperature Range Electronics <b>2006</b> ,		12
11	Multiple-Bit Upset in 130 nm CMOS Technology. <i>IEEE Transactions on Nuclear Science</i> , <b>2006</b> , 53, 3259-3264	1.7	66
10	Proton and gamma radiation effects in a new first-generation SiGe HBT technology. <i>Solid-State Electronics</i> , <b>2006</b> , 50, 181-190	1.7	22
9	Analysis and understanding of unique cryogenic phenomena in state-of-the-art SiGe HBTs. <i>Solid-State Electronics</i> , <b>2006</b> , 50, 964-972	1.7	10
8	An investigation of the effects of radiation exposure on stability constraints in epitaxial SiGe strained layers. <i>Solid-State Electronics</i> , <b>2006</b> , 50, 1194-1200	1.7	1
7	On the geometrical dependence of low-frequency noise in SiGe HBTs. <i>Solid-State Electronics</i> , <b>2006</b> , 50, 1748-1755	1.7	1



6	Proton response of low-frequency noise in 0.20 $\mu\text{m}$ 90 GHz FT UHV/CVD SiGe HBTs. <i>Solid-State Electronics</i> , <b>2003</b> , 47, 39-44	1.7	9
5	The effects of operating bias conditions on the proton tolerance of SiGe HBTs. <i>Solid-State Electronics</i> , <b>2003</b> , 47, 1729-1734	1.7	26
4	Impact of gamma irradiation on the RF phase noise capability of UHV/CVD SiGe HBTs. <i>Solid-State Electronics</i> , <b>2001</b> , 45, 107-112	1.7	5
3	A comparison of npn and pnp profile design tradeoffs for complementary SiGe HBT Technology. <i>Solid-State Electronics</i> , <b>2000</b> , 44, 1949-1954	1.7	4
2	SiGe-base bipolar transistors for cryogenic BiCMOS applications. <i>Microelectronic Engineering</i> , <b>1992</b> , 19, 841-848	2.5	4
1	Silicon bipolar transistor: a viable candidate for high speed applications at liquid nitrogen temperature. <i>Cryogenics</i> , <b>1990</b> , 30, 1036-1047	1.8	11