Ingrid M Verbauwhede

List of Publications by Year
in descending order

412 papers	11,440 citations	53794 45 h-index	71685 76 g-index
423 all docs	423 docs citations	423 times ranked	4489 citing authors

#	Article	IF	Citations
1	A logic level design methodology for a secure DPA resistant ASIC or FPGA implementation. , 0, , .		396
2	Physically Unclonable Functions: A Study on the State of the Art and Future Research Directions. Information Security and Cryptography, 2010, , 3-37.	0.3	294
3	Machine learning in side-channel analysis: a first study. Journal of Cryptographic Engineering, 2011, 1, 293-302.	1.8	211
4	Helper Data Algorithms for PUF-Based Key Generation: Overview and Analysis. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2015, 34, 889-902.	2.7	189
5	spongent: A Lightweight Hash Function. Lecture Notes in Computer Science, 2011, , 312-325.	1.3	185
6	Elliptic-Curve-Based Security Processor for RFID. IEEE Transactions on Computers, 2008, 57, 1514-1527.	3.4	181
7	Design and performance testing of a 2.29-GB/s rijndael processor. IEEE Journal of Solid-State Circuits, 2003, 38, 569-572.	5.4	166
8	Public-Key Cryptography for RFID-Tags. , 2007, , .		158
9	PUFs: Myth, Fact or Busted? A Security Evaluation of Physically Unclonable FunctionsÂ(PUFs) Cast in Silicon. Lecture Notes in Computer Science, 2012, , 283-301.	1.3	148
10	PUFKY: A Fully Functional PUF-Based Cryptographic Key Generator. Lecture Notes in Computer Science, 2012, , 302-319.	1.3	147
11	Area-throughput trade-offs for fully pipelined 30 to 70 Gbits/s AES processors. IEEE Transactions on Computers, 2006, 55, 366-372.	3.4	146
12	A Lockdown Technique to Prevent Machine Learning on PUFs for Lightweight Authentication. IEEE Transactions on Multi-Scale Computing Systems, 2016, 2, 146-159.	2.4	142
13	A 21.54 Gbits/s Fully Pipelined AES Processor on FPGA. , 0, , .		133
14	Practical Mitigations for Timing-Based Side-Channel Attacks on Modern x86 Processors. , 2009, , .		133
15	A Survey on Lightweight Entity Authentication with Strong PUFs. ACM Computing Surveys, 2015, 48, 1-42.	23.0	133
16	Hardware Designer's Guide to Fault Attacks. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2013, 21, 2295-2306.	3.1	128
17	Consolidating Masking Schemes. Lecture Notes in Computer Science, 2015, , 764-783.	1.3	128
18	AES-Based Security Coprocessor IC in 0.18-<tex>$muhbox m$</tex>CMOS With Resistance to Differential Power Analysis Side-Channel Attacks. IEEE Journal of Solid-State Circuits, 2006, 41, 781-792.	5.4	126

#	Article	IF	Citations
19	A soft decision helper data algorithm for SRAM PUFs. , 2009, , .		125
20	Compact Ring-LWE Cryptoprocessor. Lecture Notes in Computer Science, 2014, , 371-391.	1.3	125
21	LiBrA-CAN: A Lightweight Broadcast Authentication Protocol for Controller Area Networks. Lecture Notes in Computer Science, 2012, , 185-200.	1.3	118
22	A digital design flow for secure integrated circuits. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2006, 25, 1197-1208.	2.7	117
23	RECTANGLE: a bit-slice lightweight block cipher suitable for multiple platforms. Science China Information Sciences, 2015, 58, 1-15.	4.3	115
24	Low-Overhead Implementation of a Soft Decision Helper Data Algorithm for SRAM PUFs. Lecture Notes in Computer Science, 2009, , 332-347.	1.3	115
25	Reverse Fuzzy Extractors: Enabling Lightweight Mutual Authentication for PUF-Enabled RFIDs. Lecture Notes in Computer Science, 2012, , 374-389.	1.3	115
26	Chaskey: An Efficient MAC Algorithm for 32-bit Microcontrollers. Lecture Notes in Computer Science, 2014, , 306-323.	1.3	113
27	A Micropower CMOS-Instrumentation Amplifier. IEEE Journal of Solid-State Circuits, 1985, 20, 805-807.	5.4	106
28	An In-depth and Black-box Characterization of the Effects of Clock Glitches on 8-bit MCUs. , 2011, , .		104
29	State-of-the-art of secure ECC implementations: a survey on known side-channel attacks and countermeasures. , 2010, , .		101
30	Securing Encryption Algorithms against DPA at the Logic Level: Next Generation Smart Card Technology. Lecture Notes in Computer Science, 2003, , 125-136.	1.3	100
31	Prototype IC with WDDL and Differential Routing â€“ DPA Resistance Assessment. Lecture Notes in Computer Science, 2005, , 354-365.	1.3	99
32	Machine learning attacks on 65nm Arbiter PUFs: Accurate modeling poses strict bounds on usability. , 2012, , .		98
33	Side channel modeling attacks on 65nm arbiter PUFs exploiting CMOS device noise. , 2013, , .		97
34	High-Speed Polynomial Multiplication Architecture for Ring-LWE and SHE Cryptosystems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 157-166.	5.4	94
35	Hardware-Based Trusted Computing Architectures for Isolation and Attestation. IEEE Transactions on Computers, 2018, 67, 361-374.	3.4	91
36	Fault Injection Modeling Attacks on 65 nm Arbiter and RO Sum PUFs via Environmental Changes. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 1701-1713.	5.4	90

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37	Experimental evaluation of Physically Unclonable Functions in 65 nm CMOS. , 2012, , .		85
38	EC-RAC (ECDLP Based Randomized Access Control): Provably Secure RFID authentication protocol. , 2008, , .		84
39	FPGA Vendor Agnostic True Random Number Generator. , 2006, , .		83
40	Architectural Optimization for a 1.82Gbits/sec VLSI Implementation of the AES Rijndael Algorithm. Lecture Notes in Computer Science, 2001, , 51-64.	1.3	78
41	Test Versus Security: Past and Present. IEEE Transactions on Emerging Topics in Computing, 2014, 2, 50-62.	4.6	77
42	SPONGENT: The Design Space of Lightweight Cryptographic Hashing. IEEE Transactions on Computers, 2013, 62, 2041-2053.	3.4	74
43	Place and Route for Secure Standard Cell Design. International Federation for Information Processing, 2004, , 143-158.	0.4	70
44	Low-cost untraceable authentication protocols for RFID. , 2010, , .		70
45	Securing embedded systems. IEEE Security and Privacy, 2006, 4, 40-49.	1.2	66
46	Partition vs. Comparison Side-Channel Distinguishers: An Empirical Evaluation of Statistical Tests for Univariate Side-Channel Attacks against Two Unprotected CMOS Devices. Lecture Notes in Computer Science, 2009, , 253-267.	1.3	64
47	A quick safari through the reconfiguration jungle. , 2001, , .		63
48	Advanced RF/Baseband Interconnect Schemes for Inter- and Intra-ULSI Communications. IEEE Transactions on Electron Devices, 2005, 52, 1271-1285.	3.0	61
49	A Systematic Evaluation of Compact Hardware Implementations for the Rijndael S-Box. Lecture Notes in Computer Science, 2005, , 323-333.	1.3	61
50	Sancus 2.0. ACM Transactions on Privacy and Security, 2017, 20, 1-33.	3.0	61
51	A VLSI Design Flow for Secure Side-Channel Attack Resistant ICs. , 0, , .		60
52	An Updated Survey on Secure ECC Implementations: Attacks, Countermeasures and Cost. Lecture Notes in Computer Science, 2012, , 265-282.	1.3	60
53	Automatic Secure Fingerprint Verification System Based on Fuzzy Vault Scheme. , 0, , .		59
54	Electromagnetic circuit fingerprints for Hardware Trojan detection. , 2015, , .		59

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55	Electromagnetic Analysis Attack on an FPGA Implementation of an Elliptic Curve Cryptosystem. , 2005, , .		56
56	A noise bifurcation architecture for linear additive physical functions. , 2014, , .		56
57	A Pay-per-Use Licensing Scheme for Hardware IP Cores in Recent SRAM-Based FPGAs. IEEE Transactions on Information Forensics and Security, 2012, 7, 98-108.	6.9	55
58	Faster Interleaved Modular Multiplication Based on Barrett and Montgomery Reduction Methods. IEEE Transactions on Computers, 2010, 59, 1715-1721.	3.4	52
59	Minimum area cost for a 30 to 70 Gbits/s AES processor. , 0, , .		51
60	Exploiting Hardware Performance Counters. , 2008, , .		50
61	Memory estimation for high level synthesis. , 1994, , .		49
62	Elliptic Curve Cryptography with Efficiently Computable Endomorphisms and Its Hardware Implementations for the Internet of Things. IEEE Transactions on Computers, 2017, 66, 773-785.	3.4	49
63	FPGA-Based High-Performance Parallel Architecture for Homomorphic Computing on Encrypted Data. , 2019, , .		49
64	FPGA Implementation of Pairings Using Residue Number System and Lazy Reduction. Lecture Notes in Computer Science, 2011, , 421-441.	1.3	48
65	Efficient Fuzzy Extraction of PUF-Induced Secrets: Theory and Applications. Lecture Notes in Computer Science, 2016, , 412-431.	1.3	48
66	DPA, Bitslicing and Masking at 1 GHz. Lecture Notes in Computer Science, 2015, , 599-619.	1.3	47
67	A 3.84 gbits/s AES crypto coprocessor with modes of operation in a 0.18-Î¼m CMOS technology. , 2005, , .		46
68	Multicore Curve-Based Cryptoprocessor with Reconfigurable Modular Arithmetic Logic Units over GF(2^n). IEEE Transactions on Computers, 2007, 56, 1269-1282.	3.4	46
69	A Physically Unclonable Function Using Soft Oxide Breakdown Featuring 0% Native BER and 51.8 fJ/bit in 40-nm CMOS. IEEE Journal of Solid-State Circuits, 2019, 54, 2765-2776.	5.4	45
70	Revisiting Higher-Order DPA Attacks:. Lecture Notes in Computer Science, 2010, , 221-234.	1.3	45
71	Efficient Ring-LWE Encryption on 8-Bit AVR Processors. Lecture Notes in Computer Science, 2015, , 663-682.	1.3	45
72	Efficient Software Implementation of Ring-LWE Encryption. , 2015, , .		44

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73	Secure Lightweight Entity Authentication with Strong PUFs: Mission Impossible?. Lecture Notes in Computer Science, 2014, , 451-475.	1.3	44
74	Domain-specific codesign for embedded security. Computer, 2003, 36, 68-74.	1.1	43
75	A compact FPGA-based architecture for elliptic curve cryptography over prime fields. , 2010, , .		43
76	Secure IRIS Verification. , 2007, , .		42
77	Differential power and electromagnetic attacks on a FPGA implementation of elliptic curve cryptosystems. Computers and Electrical Engineering, 2007, 33, 367-382.	4.8	42
78	Reducing radio energy consumption of key management protocols for wireless sensor networks. , 2004, , .		41
79	High-throughput programmable cryptocoprocessor. IEEE Micro, 2004, 24, 34-45.	1.8	41
80	A side-channel leakage free coprocessor IC in 0.18Âµm CMOS for embedded AES-based cryptographic and biometric processing. , 2005, , .		39
81	Design Method for Constant Power Consumption of Differential Logic Circuits. , 0, , .		39
82	Simulation models for side-channel information leaks. , 2005, , .		39
83	Dependence of RFID Reader Antenna Design on Read Out Distance. IEEE Transactions on Antennas and Propagation, 2008, 56, 3829-3837.	5.1	39
84	The Fault Attack Jungle - A Classification Model to Guide You. , 2011, , .		39
85	Dude, is my code constant time?. , 2017, , .		39
86	Constant-Time Discrete Gaussian Sampling. IEEE Transactions on Computers, 2018, 67, 1561-1571.	3.4	39
87	HEAWS: An Accelerator for Homomorphic Encryption on the Amazon AWS FPGA. IEEE Transactions on Computers, 2020, , 1-1.	3.4	39
88	ES-TRNG: A High-throughput, Low-area True Random Number Generator based on Edge Sampling. Iacr Transactions on Cryptographic Hardware and Embedded Systems, 0, , 267-292.	0.0	39
89	Power and Fault Analysis Resistance in Hardware through Dynamic Reconfiguration. Lecture Notes in Computer Science, 2008, , 346-362.	1.3	38
90	A Masked Ring-LWE Implementation. Lecture Notes in Computer Science, 2015, , 683-702.	1.3	38

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91	Extending ECC-based RFID authentication protocols to privacy-preserving multi-party grouping proofs. Personal and Ubiquitous Computing, 2012, 16, 323-335.	2.8	36
92	A secure fingerprint matching technique. , 2003, , .		35
93	Design of an Interconnect Architecture and Signaling Technology for Parallelism in Communication. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2007, 15, 881-894.	3.1	35
94	Fair and Consistent Hardware Evaluation of Fourteen Round Two SHA-3 Candidates. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2012, 20, 827-840.	3.1	35
95	Attacking PUF-Based Pattern Matching Key Generators via Helper Data Manipulation. Lecture Notes in Computer Science, 2014, , 106-131.	1.3	34
96	Power Analysis of Atmel CryptoMemory â€“ Recovering Keys from Secure EEPROMs. Lecture Notes in Computer Science, 2012, , 19-34.	1.3	34
97	Dietary Recommendations for Lightweight Block Ciphers: Power, Energy and Area Analysis of Recently Developed Architectures. Lecture Notes in Computer Science, 2013, , 103-112.	1.3	34
98	PUF-based secure test wrapper design for cryptographic SoC testing. , 2012, , .		33
99	Security Analysis of Industrial Test Compression Schemes. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2013, 32, 1966-1977.	2.7	33
100	Perfect Matching Disclosure Attacks. Lecture Notes in Computer Science, 2008, , 2-23.	1.3	33
101	Revisiting a combinatorial approach toward measuring anonymity. , 2008, , .		33
102	Secure JTAG Implementation Using Schnorr Protocol. Journal of Electronic Testing: Theory and Applications (JETTA), 2013, 29, 193-209.	1.2	32
103	Efficient implementation of anonymous credentials on Java Card smart cards. , 2009, , .		31
104	LiBrA-CAN. Transactions on Embedded Computing Systems, 2017, 16, 1-28.	2.9	31
105	HEPCloud: An FPGA-based Multicore Processor for FV Somewhat Homomorphic Function Evaluation. IEEE Transactions on Computers, 2018, , 1-1.	3.4	31
106	Selecting Time Samples for Multivariate DPA Attacks. Lecture Notes in Computer Science, 2012, , 155-174.	1.3	31
107	Saber on ARM. Iacr Transactions on Cryptographic Hardware and Embedded Systems, 0, , 243-266.	0.0	31
108	Micropower high-performance SC building block for integrated low-level signal processing. IEEE Journal of Solid-State Circuits, 1985, 20, 837-844.	5.4	30

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109	Interfacing a high speed crypto accelerator to an embedded CPU. , 0, , .		30
110	Theory and Practice of a Leakage Resilient Masking Scheme. Lecture Notes in Computer Science, 2012, , 758-775.	1.3	30
111	SOFIA: Software and control flow integrity architecture. Computers and Security, 2017, 68, 16-35.	6.0	30
112	A Side-Channel-Resistant Implementation of SABER. ACM Journal on Emerging Technologies in Computing Systems, 2021, 17, 1-26.	2.3	30
113	Low-cost implementations of NTRU for pervasive security. , 2008, , .		29
114	Analysis and design of active IC metering schemes. , 2009, , .		29
115	Physically unclonable functions. , 2011, , .		29
116	Ultra Low-Power implementation of ECC on the ARM Cortex-M0+. , 2014, , .		29
117	Faster $mathbb{F}_p$ -Arithmetic for Cryptographic Pairings on Barreto-Naehrig Curves. Lecture Notes in Computer Science, 2009, , 240-253.	1.3	29
118	Highly efficient entropy extraction for true random number generators on FPGAs. , 2015, , .		28
119	Additively Homomorphic Ring-LWE Masking. Lecture Notes in Computer Science, 2016, , 233-244.	1.3	28
120	Security and performance optimization of a new DES data encryption chip. IEEE Journal of Solid-State Circuits, 1988, 23, 647-656.	5.4	26
121	Speed-area trade-off for 10 to 100 Gbits/s throughput AES processor. , 0, , .		26
122	Decryption Failure Attacks on IND-CCA Secure Lattice-Based Schemes. Lecture Notes in Computer Science, 2019, , 565-598.	1.3	26
123	Digital circuit capacitance and switching analysis for ground bounce in ICs with a high-ohmic substrate. IEEE Journal of Solid-State Circuits, 2004, 39, 1119-1130.	5.4	25
124	A Low Power DSP Engine for Wireless Communications. Journal of Signal Processing Systems, 1998, 18, 177-186.	1.0	24
125	Public-Key Cryptography on the Top of a Needle. , 2007, , .		24
126	Masking ring-LWE. Journal of Cryptographic Engineering, 2016, 6, 139-153.	1.8	24

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127	Elliptic curve cryptography on embedded multicore systems. Design Automation for Embedded Systems, 2008, 12, 231-242.	1.0	23
128	On the Feasibility of Cryptography for a Wireless Insulin Pump System. , 2016, , .		23
129	Compact and Flexible FPGA Implementation of Ed25519 and X25519. Transactions on Embedded Computing Systems, 2019, 18, 1-21.	2.9	23
130	In-place memory management of algebraic algorithms on application specific ICs. Journal of Signal Processing Systems, 1991, 3, 193-200.	1.0	22
131	Charge recycling sense amplifier based logic: securing low power security ICs against DPA [differential power analysis]. , 0, , .		22
132	Efficient Hardware Implementation of Fp-Arithmetic for Pairing-Friendly Curves. IEEE Transactions on Computers, 2012, 61, 676-685.	3.4	22
133	An interactive codesign environment for domain-specific coprocessors. ACM Transactions on Design Automation of Electronic Systems, 2006, 11, 70-87.	2.6	21
134	Tripartite modular multiplication. The Integration VLSI Journal, 2011, 44, 259-269.	2.1	21
135	IoT: Source of test challenges. , 2016, , .		21
136	Hardware Assisted Fully Homomorphic Function Evaluation and Encrypted Search. IEEE Transactions on Computers, 2017, 66, 1562-1572.	3.4	21
137	Trust in FPGA-accelerated Cloud Computing. ACM Computing Surveys, 2021, 53, 1-28.	23.0	21
138	Prime+Scope. , 2021, , .		21
139	Design of portable biometric authenticators - energy, performance, and security tradeoffs. IEEE Transactions on Consumer Electronics, 2004, 50, 1222-1231.	3.6	20
140	A Parallel Processing Hardware Architecture for Elliptic Curve Cryptosystems. , 0, , .		20
141	Differential Electromagnetic Attack on an FPGA Implementation of Elliptic Curve Cryptosystems. , 2006, , .		20
142	Design with race-free hardware semantics. , 2006, , .		20
143	Reconfigurable modular arithmetic logic unit supporting high-performance RSA and ECC over GF(p). International Journal of Electronics, 2007, 94, 501-514.	1.4	20
144	Implementation of binary edwards curves for very-constrained devices. , 2010, , .		20

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145	Differential Scan Attack on AES with X-tolerant and X-masked Test Response Compactor. , 2012, , .		20
146	Superscalar Coprocessor for High-Speed Curve-Based Cryptography. Lecture Notes in Computer Science, 2006, , 415-429.	1.3	20
147	The Impact of Error Dependencies on Ring/Mod-LWE/LWR Based Schemes. Lecture Notes in Computer Science, 2019, , 103-115.	1.3	20
148	A New Scan Attack on RSA in Presence of Industrial Countermeasures. Lecture Notes in Computer Science, 2012, , 89-104.	1.3	20
149	TOTAL: TRNG On-the-fly Testing for Attack Detection using Lightweight Hardware. , 2016, , .		20
150	Unlocking the design secrets of a 2.29 Gb/s Rijndael processor. Proceedings - Design Automation Conference, 2002, , .	0.0	19
151	Throughput Optimized SHA-1 Architecture Using Unfolding Transformation. , 2006, , .		19
152	Single-Cycle Implementations of Block Ciphers. Lecture Notes in Computer Science, 2016, , 131-147.	1.3	19
153	Fault Analysis Study of IDEA. Lecture Notes in Computer Science, 2008, , 274-287.	1.3	19
154	Design methods for Security and Trust. , 2007, , .		18
155	A Speed Area Optimized Embedded Co-processor for McEliece Cryptosystem. , 2012, , .		18
156	A Highly-Portable True Random Number Generator Based on Coherent Sampling. , 2019, , .		18
157	High Precision Discrete Gaussian Sampling on FPGAs. Lecture Notes in Computer Science, 2014, , 383-401.	1.3	18
158	Montgomery Modular Multiplication Algorithm on Multi-Core Systems. Signal Processing Systems Design and Implementation (siPS), IEEE Workshop on, 2007, , .	0.0	17
159	BLAKE-512-Based 128-Bit CCA2 Secure Timing Attack Resistant McEliece Cryptoprocessor. IEEE Transactions on Computers, 2014, 63, 1124-1133.	3.4	17
160	Pushing the speed limit of constant-time discrete Gaussian sampling. A case study on the Falcon signature scheme. , 2019, , .		17
161	Reconfigurable Modular Arithmetic Logic Unit for High-Performance Public-Key Cryptosystems. Lecture Notes in Computer Science, 2006, , 347-357.	1.3	17
162	Efficient Finite Field Multiplication for Isogeny Based Post Quantum Cryptography. Lecture Notes in Computer Science, 2016, , 193-207.	1.3	17

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163	Iteration Bound Analysis and Throughput Optimum Architecture of SHA-256 (384,512) for Hardware Implementations. Lecture Notes in Computer Science, 2007, , 102-114.	1.3	17
164	Secure Logic Synthesis. Lecture Notes in Computer Science, 2004, , 1052-1056.	1.3	17
165	A compact and efficient fingerprint verification system for secure embedded devices. , 0, , .		16
166	Embedded software integration for coarse-grain reconfigurable systems. , 0, , .		16
167	Efficient pipelining for modular multiplication architectures in prime fields. , 2007, , .		16
168	High-performance Public-key Cryptoprocessor for Wireless Mobile Applications. Mobile Networks and Applications, 2007, 12, 245-258.	3.3	16
169	Untraceable RFID authentication protocols: Revision of EC-RAC. , 2009, , .		16
170	Faster Pairing Coprocessor Architecture. Lecture Notes in Computer Science, 2013, , 160-176.	1.3	16
171	Modular Hardware Architecture for Somewhat Homomorphic Function Evaluation. Lecture Notes in Computer Science, 2015, , 164-184.	1.3	16
172	A hardware implementation in FPGA of the Rijndael algorithm. , 0, , .		15
173	Side-channel issues for designing secure hardware implementations. , 2005, , .		15
174	AES-Based Cryptographic and Biometric Security Coprocessor IC in 0.18-Î¼m CMOS Resistant to Side-Channel Power Analysis Attacks. , 0, , .		15
175	Secure remote reconfiguration of an FPGA-based embedded system. , 2011, , .		15
176	Secure PRNG seeding on commercial off-the-shelf microcontrollers. , 2013, , .		15
177	Novel RNS Parameter Selection for Fast Modular Multiplication. IEEE Transactions on Computers, 2014, 63, 2099-2105.	3.4	15
178	24.1 Circuit challenges from cryptography. , 2015, , .		15
179	Physically unclonable function using CMOS breakdown position. , 2017, , .		15
180	EM Information Security Threats Against RO-Based TRNGs: The Frequency Injection Attack Based on IEMI and EM Information Leakage. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 1122-1128.	2.2	15

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181	Time-Memory Trade-Off Attack on FPGA Platforms: UNIX Password Cracking. Lecture Notes in Computer Science, 2006, , 323-334.	1.3	15
182	Fast Leakage Assessment. Lecture Notes in Computer Science, 2017, , 387-399.	1.3	15
183	Balanced point operations for side-channel protection of elliptic curve cryptography. IEE Proceedings - Information Security, 2005, 152, 57.	1.9	15
184	TROT: A Three-Edge Ring Oscillator Based True Random Number Generator With Time-to-Digital Conversion. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 2435-2448.	5.4	15
185	Interactive cosimulation with partial evaluation. , 0, , .		14
186	Integrated modeling and generation of a reconfigurable network-on-chip. , 0, , .		14
187	Breaking Elliptic Curve Cryptosystems Using Reconfigurable Hardware. , 2010, , .		14
188	The communication and computation cost of wireless security. , 2011, , .		14
189	A scan-based attack on Elliptic Curve Cryptosystems in presence of industrial Design-for-Testability structures. , 2012, , .		14
190	A Practical Attack on KeeLoq. Journal of Cryptology, 2012, 25, 136-157.	2.8	14
191	Soteria. , 2015, , .		14
192	High-Performance Ideal Lattice-Based Cryptography on 8-Bit AVR Microcontrollers. Transactions on Embedded Computing Systems, 2017, 16, 1-24.	2.9	14
193	Modular Reduction in GF(2 n) without Pre-computational Phase. Lecture Notes in Computer Science, 2008, , 77-87.	1.3	14
194	Hierarchical ECC-Based RFID Authentication Protocol. Lecture Notes in Computer Science, 2012, , 183-201.	1.3	14
195	Protected Software Module Architectures. , 2013, , 241-251.		14
196	Low power DSP's for wireless communications. , 2000, , .		13
197	Secure fuzzy vault based fingerprint verification system. , 0, , .		13
198	A Fast Dual-Field Modular Arithmetic Logic Unit and Its Hardware Implementation. , 0, , .		13

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199	Practical DPA attacks on MDPL. , 2009, , .		13
200	A single-chip solution for the secure remote configuration of FPGAs using bitstream compression. , 2013, , .		13
201	Finding the best system design flow for a high-speed JPEG encoder. , 2003, , .		12
202	Architectural design features of a programmable high throughput AES coprocessor. , 2004, , .		12
203	A 5.6-mW 1-Gb/s/pair pulsed signaling transceiver for a fully AC coupled bus. IEEE Journal of Solid-State Circuits, 2005, 40, 1331-1340.	5.4	12
204	Cooperative multithreading on embedded multiprocessor architectures enables energy-scalable design. , 2005, , .		12
205	Clock-skew-optimization methodology for substrate-noise reduction with supply-current folding. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2006, 25, 1146-1154.	2.7	12
206	Wideâ€“Weak Privacyâ€“Preserving RFID Authentication Protocols. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 254-267.	0.3	12
207	Prototyping platform for performance evaluation of SHA-3 candidates. , 2010, , .		12
208	Design and design methods for unified multiplier and inverter and its application for HECC. The Integration VLSI Journal, 2011, 44, 280-289.	2.1	12
209	Low-cost implementations of on-the-fly tests for random number generators. , 2012, , .		12
210	Design solutions for securing SRAM cell against power analysis. , 2012, , .		12
211	Exploring active manipulation attacks on the TERO random number generator. , 2016, , .		12
212	Hardware/Software Co-design for Hyperelliptic Curve Cryptography (HECC) on the 8051 Î¼P. Lecture Notes in Computer Science, 2005, , 106-118.	1.3	12
213	Privacy Challenges in RFID Systems. , 2010, , 397-407.		12
214	Anti-counterfeiting, Untraceability and Other Security Challenges for RFID Systems: Public-Key-Based Protocols and Hardware. Information Security and Cryptography, 2010, , 237-257.	0.3	12
215	Reconfigurable interconnect for next generation systems. , 2002, , .		12
216	Hardware/software co-design of an elliptic curve public-key cryptosystem. , 0, , .		11

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217	Unlocking the design secrets of a 2.29 Gb/s Rijndael processor. , 2002, , .		11
218	Java cryptography on KVM and its performance and security optimization using HW/SW co-design techniques. , 2004, , .		11
219	A Component-Based Design Environment for ESL Design. IEEE Design and Test of Computers, 2006, 23, 338-347.	1.0	11
220	HW/SW co-design of a hyperelliptic curve cryptosystem using a microcode instruction set coprocessor. The Integration VLSI Journal, 2007, 40, 45-51.	2.1	11
221	Secure, Remote, Dynamic Reconfiguration of FPGAs. ACM Transactions on Reconfigurable Technology and Systems, 2015, 7, 1-19.	2.5	11
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