

Pierre-Alain Fouque

List of Publications by Year in descending order

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119
papers

3,576
citations

218381

26
h-index

214527

47
g-index

126
all docs

126
docs citations

126
times ranked

1459
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitaka: A Simpler, Parallelizable, Maskable Variant of Falcon. Lecture Notes in Computer Science, 2022, , 222-253.	1.0	18
2	SSE and SSD: Page-Efficient Searchable Symmetric Encryption. Lecture Notes in Computer Science, 2021, , 157-184.	1.0	12
3	Towards Faster Polynomial-Time Lattice Reduction. Lecture Notes in Computer Science, 2021, , 760-790.	1.0	2
4	MLS Group Messaging: How Zero-Knowledge Can Secure Updates. Lecture Notes in Computer Science, 2021, , 587-607.	1.0	4
5	PARASITE: PAssword Recovery Attack against Srp Implementations in ThE wild. , 2021, , .		2
6	Improved parallel mask refreshing algorithms: generic solutions with parametrized non-interference and automated optimizations. Journal of Cryptographic Engineering, 2020, 10, 17-26.	1.5	7
7	Linearly equivalent S-boxes and the division property. Designs, Codes, and Cryptography, 2020, 88, 2207-2231.	1.0	9
8	Fast Reduction of Algebraic Lattices over Cyclotomic Fields. Lecture Notes in Computer Science, 2020, , 155-185.	1.0	4
9	Faster Enumeration-Based Lattice Reduction: Root Hermite Factor $k^{1/(2k)}$ Time $k^{k/8+o(k)}$. Lecture Notes in Computer Science, 2020, , 186-212.	1.0	16
10	Multi-Device for Signal. Lecture Notes in Computer Science, 2020, , 167-187.	1.0	2
11	Designing Reverse Firewalls for the Real World. Lecture Notes in Computer Science, 2020, , 193-213.	1.0	6
12	Netspot: A Simple Intrusion Detection System with Statistical Learning. , 2020, , .		2
13	Dragonblood is Still Leaking: Practical Cache-based Side-Channel in the Wild. , 2020, , .		10
14	Close to Uniform Prime Number Generation With Fewer Random Bits. IEEE Transactions on Information Theory, 2019, 65, 1307-1317.	1.5	4
15	Variants of the AES Key Schedule for Better Truncated Differential Bounds. Lecture Notes in Computer Science, 2019, , 27-49.	1.0	5
16	SAID: Reshaping Signal into an Identity-Based Asynchronous Messaging Protocol with Authenticated Ratcheting. , 2019, , .		4
17	GALACTICS. , 2019, , .		30
18	Masking Dilithium. Lecture Notes in Computer Science, 2019, , 344-362.	1.0	28

#	ARTICLE	IF	CITATIONS
19	maskVerif: Automated Verification of Higher-Order Masking in Presence of Physical Defaults. Lecture Notes in Computer Science, 2019, , 300-318.	1.0	35
20	The privacy of the TLS 1.3 protocol. Proceedings on Privacy Enhancing Technologies, 2019, 2019, 190-210.	2.3	26
21	Security-Efficiency Tradeoffs in Searchable Encryption. Proceedings on Privacy Enhancing Technologies, 2019, 2019, 132-151.	2.3	11
22	Masking the GLP Lattice-Based Signature Scheme at Any Order. Lecture Notes in Computer Science, 2018, , 354-384.	1.0	31
23	Key-Recovery Attacks on ASASA. Journal of Cryptology, 2018, 31, 845-884.	2.1	13
24	Loop-Abort Faults on Lattice-Based Signatures and Key Exchange Protocols. IEEE Transactions on Computers, 2018, , 1-1.	2.4	11
25	Pattern Matching on Encrypted Streams. Lecture Notes in Computer Science, 2018, , 121-148.	1.0	17
26	LWE Without Modular Reduction and Improved Side-Channel Attacks Against BLISS. Lecture Notes in Computer Science, 2018, , 494-524.	1.0	23
27	Anomaly Detection in Streams with Extreme Value Theory. , 2017, , .		217
28	Content delivery over TLS: a cryptographic analysis of keyless SSL. , 2017, , .		8
29	Side-Channel Attacks on BLISS Lattice-Based Signatures. , 2017, , .		70
30	Revisiting Lattice Attacks on Overstretched NTRU Parameters. Lecture Notes in Computer Science, 2017, , 3-26.	1.0	61
31	Computing Generator in Cyclotomic Integer Rings. Lecture Notes in Computer Science, 2017, , 60-88.	1.0	18
32	Loop-Abort Faults on Lattice-Based Fiat-Shamir and Hash-and-Sign Signatures. Lecture Notes in Computer Science, 2017, , 140-158.	1.0	13
33	Strong Non-Interference and Type-Directed Higher-Order Masking. , 2016, , .		102
34	Achieving Better Privacy for the 3GPP AKA Protocol. Proceedings on Privacy Enhancing Technologies, 2016, 2016, 255-275.	2.3	29
35	Fault Attacks on Efficient Pairing Implementations. , 2016, , .		0
36	New Second-Preimage Attacks on Hash Functions. Journal of Cryptology, 2016, 29, 657-696.	2.1	18

#	ARTICLE	IF	CITATIONS
37	Side-Channel Analysis of Weierstrass and Koblitz Curve ECDSA on Android Smartphones. Lecture Notes in Computer Science, 2016, , 236-252.	1.0	23
38	Tightly Secure Signatures From Lossy Identification Schemes. Journal of Cryptology, 2016, 29, 597-631.	2.1	22
39	A Cryptographic Analysis of UMTS/LTE AKA. Lecture Notes in Computer Science, 2016, , 18-35.	1.0	13
40	Assisted Identification of Mode of Operation in Binary Code with Dynamic Data Flow Slicing. Lecture Notes in Computer Science, 2016, , 561-579.	1.0	1
41	Automatic Search of Meet-in-the-Middle and Impossible Differential Attacks. Lecture Notes in Computer Science, 2016, , 157-184.	1.0	33
42	Efficient and Provable White-Box Primitives. Lecture Notes in Computer Science, 2016, , 159-188.	1.0	29
43	Safe-Errors on SPA Protected Implementations with the Atomicity Technique. Lecture Notes in Computer Science, 2016, , 479-493.	1.0	3
44	Verified Proofs of Higher-Order Masking. Lecture Notes in Computer Science, 2015, , 457-485.	1.0	84
45	Key-Recovery Attacks on ASASA. Lecture Notes in Computer Science, 2015, , 3-27.	1.0	20
46	Automated Identification of Cryptographic Primitives in Binary Code with Data Flow Graph Isomorphism. , 2015, , .		26
47	Cryptanalysis of the Co-ACD Assumption. Lecture Notes in Computer Science, 2015, , 561-580.	1.0	3
48	An Improved BKW Algorithm for LWE with Applications to Cryptography and Lattices. Lecture Notes in Computer Science, 2015, , 43-62.	1.0	55
49	Higher-Order Differential Meet-in-the-middle Preimage Attacks on SHA-1 and BLAKE. Lecture Notes in Computer Science, 2015, , 683-701.	1.0	9
50	Improved Side-Channel Analysis of Finite-Field Multiplication. Lecture Notes in Computer Science, 2015, , 395-415.	1.0	23
51	Exhausting Demirci-Selçuk Meet-in-the-Middle Attacks Against Reduced-Round AES. Lecture Notes in Computer Science, 2014, , 541-560.	1.0	32
52	Synthesis of Fault Attacks on Cryptographic Implementations. , 2014, , .		21
53	Side-Channel Analysis of Multiplications in GF(2128). Lecture Notes in Computer Science, 2014, , 306-325.	1.0	21
54	Binary Elligator Squared. Lecture Notes in Computer Science, 2014, , 20-37.	1.0	12

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55	Improving Key Recovery to 784 and 799 Rounds of Trivium Using Optimized Cube Attacks. Lecture Notes in Computer Science, 2014, , 502-517.	1.0	51
56	Making RSAâ€PSS Provably Secure against Non-random Faults. Lecture Notes in Computer Science, 2014, , 206-222.	1.0	11
57	GLV/GLS Decomposition, Power Analysis, and Attacks on ECDSA Signatures with Single-Bit Nonce Bias. Lecture Notes in Computer Science, 2014, , 262-281.	1.0	21
58	Close to Uniform Prime Number Generation with Fewer Random Bits. Lecture Notes in Computer Science, 2014, , 991-1002.	1.0	8
59	Statistical Properties of Short RSA Distribution and Their Cryptographic Applications. Lecture Notes in Computer Science, 2014, , 525-536.	1.0	0
60	Attacking RSAâ€CRT signatures with faults on montgomery multiplication. Journal of Cryptographic Engineering, 2013, 3, 59-72.	1.5	9
61	Time/Memory/Data Tradeoffs for Variants of the RSA Problem. Lecture Notes in Computer Science, 2013, , 651-662.	1.0	1
62	Structural Evaluation of AES and Chosen-Key Distinguisher of 9-Round AES-128. Lecture Notes in Computer Science, 2013, , 183-203.	1.0	39
63	Improved Key Recovery Attacks on Reduced-Round AES in the Single-Key Setting. Lecture Notes in Computer Science, 2013, , 371-387.	1.0	115
64	Security Amplification against Meet-in-the-Middle Attacks Using Whitening. Lecture Notes in Computer Science, 2013, , 252-269.	1.0	4
65	Graph-Theoretic Algorithms for the â€œIsomorphism of Polynomialsâ€-Problem. Lecture Notes in Computer Science, 2013, , 211-227.	1.0	17
66	Recovering Private Keys Generated with Weak PRNGs. Lecture Notes in Computer Science, 2013, , 158-172.	1.0	5
67	Using faults for buffer overflow effects. , 2012, , .		6
68	Indifferentiable deterministic hashing to elliptic and hyperelliptic curves. Mathematics of Computation, 2012, 82, 491-512.	1.1	33
69	A family of weak keys in HFE and the corresponding practical key-recovery. Journal of Mathematical Cryptology, 2012, 5, .	0.4	3
70	Low-Data Complexity Attacks on AES. IEEE Transactions on Information Theory, 2012, 58, 7002-7017.	1.5	40
71	Cryptanalysis of reduced versions of the Camellia block cipher. IET Information Security, 2012, 6, 228-238.	1.1	12
72	Indifferentiable Hashing to Barretoâ€Naehrig Curves. Lecture Notes in Computer Science, 2012, , 1-17.	1.0	18

#	ARTICLE	IF	CITATIONS
73	Tightly-Secure Signatures from Lossy Identification Schemes. Lecture Notes in Computer Science, 2012, , 572-590.	1.0	58
74	Attacking RSA's CRT Signatures with Faults on Montgomery Multiplication. Lecture Notes in Computer Science, 2012, , 447-462.	1.0	9
75	Faster Chosen-Key Distinguishers on Reduced-Round AES. Lecture Notes in Computer Science, 2012, , 225-243.	1.0	6
76	Automatic Search of Attacks on Round-Reduced AES and Applications. Lecture Notes in Computer Science, 2011, , 169-187.	1.0	50
77	Attacks on Hash Functions Based on Generalized Feistel: Application to Reduced-Round Lesamnta and SHAvite-3 512. Lecture Notes in Computer Science, 2011, , 18-35.	1.0	11
78	Practical Near-Collisions and Collisions on Round-Reduced ECHO-256 Compression Function. Lecture Notes in Computer Science, 2011, , 107-127.	1.0	8
79	Meet-in-the-Middle and Impossible Differential Fault Analysis on AES. Lecture Notes in Computer Science, 2011, , 274-291.	1.0	33
80	Practical Key-Recovery for All Possible Parameters of SFLASH. Lecture Notes in Computer Science, 2011, , 667-685.	1.0	9
81	Practical Cryptanalysis of the Identification Scheme Based on the Isomorphism of Polynomial with One Secret Problem. Lecture Notes in Computer Science, 2011, , 473-493.	1.0	15
82	Estimating the Size of the Image of Deterministic Hash Functions to Elliptic Curves. Lecture Notes in Computer Science, 2010, , 81-91.	1.0	19
83	Deterministic Encoding and Hashing to Odd Hyperelliptic Curves. Lecture Notes in Computer Science, 2010, , 265-277.	1.0	19
84	Another Look at Complementation Properties. Lecture Notes in Computer Science, 2010, , 347-364.	1.0	26
85	On Some Incompatible Properties of Voting Schemes. Lecture Notes in Computer Science, 2010, , 191-199.	1.0	26
86	Optimal Randomness Extraction from a Diffie-Hellman Element. Lecture Notes in Computer Science, 2009, , 572-589.	1.0	19
87	Cryptanalysis of Tweaked Versions of SMASH and Reparation. Lecture Notes in Computer Science, 2009, , 136-150.	1.0	9
88	Fault Attack on Elliptic Curve Montgomery Ladder Implementation. , 2008, , .		54
89	HMAC is a randomness extractor and applications to TLS. , 2008, , .		21
90	On the Security of the CCM Encryption Mode and of a Slight Variant. Lecture Notes in Computer Science, 2008, , 411-428.	1.0	12

#	ARTICLE	IF	CITATIONS
91	Total Break of the \hat{a} ,"-IC Signature Scheme. , 2008, , 1-17.		17
92	Key Recovery on Hidden Monomial Multivariate Schemes. , 2008, , 19-30.		11
93	The Carry Leakage on the Randomized Exponent Countermeasure. Lecture Notes in Computer Science, 2008, , 198-213.	1.0	15
94	Cryptanalysis of SFLASH with Slightly Modified Parameters. Lecture Notes in Computer Science, 2007, , 264-275.	1.0	26
95	Practical Cryptanalysis of SFLASH. , 2007, , 1-12.		109
96	Cryptanalysis of the SFLASH Signature Scheme. Lecture Notes in Computer Science, 2007, , 1-4.	1.0	0
97	The Twist-Augmented Technique for Key Exchange. Lecture Notes in Computer Science, 2006, , 410-426.	1.0	29
98	Hardness of Distinguishing the MSB or LSB of Secret Keys in Diffie-Hellman Schemes. Lecture Notes in Computer Science, 2006, , 240-251.	1.0	8
99	An Improved LPN Algorithm. Lecture Notes in Computer Science, 2006, , 348-359.	1.0	108
100	Differential Cryptanalysis for Multivariate Schemes. Lecture Notes in Computer Science, 2005, , 341-353.	1.0	68
101	Password-Based Authenticated Key Exchange in the Three-Party Setting. Lecture Notes in Computer Science, 2005, , 65-84.	1.0	430
102	A Simple Threshold Authenticated Key Exchange from Short Secrets. Lecture Notes in Computer Science, 2005, , 566-584.	1.0	31
103	Authenticated On-Line Encryption. Lecture Notes in Computer Science, 2004, , 145-159.	1.0	24
104	Defeating Countermeasures Based on Randomized BSD Representations. Lecture Notes in Computer Science, 2004, , 312-327.	1.0	16
105	Blockwise Adversarial Model for On-line Ciphers and Symmetric Encryption Schemes. Lecture Notes in Computer Science, 2004, , 212-226.	1.0	11
106	CryptoComputing with Rationals. Lecture Notes in Computer Science, 2003, , 136-146.	1.0	28
107	Practical Symmetric On-Line Encryption. Lecture Notes in Computer Science, 2003, , 362-375.	1.0	17
108	The Insecurity of Esign in Practical Implementations. Lecture Notes in Computer Science, 2003, , 492-506.	1.0	3

#	ARTICLE	IF	CITATIONS
109	Attacking Unbalanced RSA-CRT Using SPA. Lecture Notes in Computer Science, 2003, , 254-268.	1.0	15
110	The Doubling Attack “ Why Upwards Is Better than Downwards. Lecture Notes in Computer Science, 2003, , 269-280.	1.0	135
111	Practical multi-candidate election system. , 2001, , .		178
112	One Round Threshold Discrete-Log Key Generation without Private Channels. Lecture Notes in Computer Science, 2001, , 300-316.	1.0	25
113	Threshold Cryptosystems Secure against Chosen-Ciphertext Attacks. Lecture Notes in Computer Science, 2001, , 351-368.	1.0	75
114	On Recovering Affine Encodings in White-Box Implementations. Iacr Transactions on Cryptographic Hardware and Embedded Systems, 0, , 121-149.	0.0	10
115	Efficient Search for Optimal Diffusion Layers of Generalized Feistel Networks. IACR Transactions on Symmetric Cryptology, 0, , 218-240.	0.0	7
116	The Long and Winding Path to Secure Implementation of GlobalPlatform SCP10. Iacr Transactions on Cryptographic Hardware and Embedded Systems, 0, , 196-218.	0.0	0
117	Fake Near Collisions Attacks. IACR Transactions on Symmetric Cryptology, 0, , 88-103.	0.0	3
118	Increasing Precision of Division Property. IACR Transactions on Symmetric Cryptology, 0, , 173-194.	0.0	9
119	BAT: Small and Fast KEM over NTRU Lattices. Iacr Transactions on Cryptographic Hardware and Embedded Systems, 0, , 240-265.	0.0	6