Laszlo B Kish

List of Publications by Year
in descending order

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Version: 2024-02-01

69 papers	1,541 citations	331670 21 h-index	345221 36 g-index
70 all docs	70 docs citations	70 times ranked	422 citing authors

#	Article	IF	Citations
1	Totally secure classical communication utilizing Johnson (-like) noise and Kirchoff's law. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 352, 178-182.	2.1	165
2	Johnson(-like)â€“Noiseâ€“Kirchhoff-loop based secure classical communicator characteristics, for ranges of two to two thousand kilometers, via model-line. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 978-984.	2.1	131
3	Notes on recent approaches concerning the Kirchhoff-lawâ€“Johnson-noise-based secure key exchange. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 2858-2868.	2.1	96
4	Noise in the wire: The real impact of wire resistance for the Johnson(-like) noise based secure communicator. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 2140-2142.	2.1	95
5	On the security of the Kirchhoff-lawâ€“Johnson-noise (KLJN) communicator. Quantum Information Processing, 2014, 13, 2213-2219.	2.2	94
6	Advanced Agent Identification With Fluctuation-Enhanced Sensing. IEEE Sensors Journal, 2008, 8, 706-713.	4.7	42
7	TOTALLY SECURE CLASSICAL NETWORKS WITH MULTIPOINT TELECLONING (TELEPORTATION) OF CLASSICAL BITS THROUGH LOOPS WITH JOHNSON-LIKE NOISE. Fluctuation and Noise Letters, 2006, 06, C9-C21.	1.5	40
8	ON THE STATISTICAL ANALYSIS OF NOISE IN CHEMICAL SENSORS AND ITS APPLICATION FOR SENSING. Fluctuation and Noise Letters, 2001, 01, L147-L153.	1.5	39
9	Fluctuation enhanced sensing (FES) with a nanostructured, semiconducting metal oxide film for gas detection and classification. Sensors and Actuators B: Chemical, 2013, 188, 651-660.	7.8	39
10	Critical Analysis of the Bennettâ€“Riedel Attack on Secure Cryptographic Key Distributions via the Kirchhoff-Lawâ€“Johnson-Noise Scheme. PLoS ONE, 2013, 8, e81810.	2.5	36
11	FLUCTUATION-ENHANCED GAS SENSING BY SURFACE ACOUSTIC WAVE DEVICES. Fluctuation and Noise Letters, 2002, 02, L117-L123.	1.5	35
12	Gas sensing by thermoelectric voltage fluctuations in SnO nanoparticle films. Sensors and Actuators B: Chemical, 2005, 106, 708-712.	7.8	33
13	UNCONDITIONALLY SECURE COMPUTERS, ALGORITHMS AND HARDWARE, SUCH AS MEMORIES, PROCESSORS, KEYBOARDS, FLASH AND HARD DRIVES. Fluctuation and Noise Letters, 2008, 08, L95-L98.	1.5	33
14	Noise Spectroscopy of Gas Sensors. IEEE Sensors Journal, 2008, 8, 786-790.	4.7	32
15	Surface diffusion enhanced chemical sensing by surface acoustic waves. Sensors and Actuators B: Chemical, 2003, 93, 159-163.	7.8	31
16	Information Theoretically Secure, Enhanced Johnson Noise Based Key Distribution over the Smart Grid with Switched Filters. PLoS ONE, 2013, 8, e70206.	2.5	30
17	Do Electromagnetic Waves Exist in a Short Cable at Low Frequencies? What Does Physics Say?. Fluctuation and Noise Letters, 2014, 13, 1450016.	1.5	29
18	Elimination of a Second-Law-Attack, and All Cable-Resistance-Based Attacks, in the Kirchhoff-Law-Johnson-Noise (KLJN) Secure Key Exchange System. Entropy, 2014, 16, 5223-5231.	2.2	27

#	Article	IF	Citations
19	PHYSICAL UNCLONABLE FUNCTION HARDWARE KEYS UTILIZING KIRCHHOFF-LAW-JOHNSON-NOISE SECURE KEY EXCHANGE AND NOISE-BASED LOGIC. Fluctuation and Noise Letters, 2013, 12, 1350018.	1.5	26
20	On the â€œCrackingâ€•Scheme in the Paper â€œA Directional Coupler Attack Against the Kish Key Distribution Systemâ€•by Gunn, Allison and Abbott. Metrology and Measurement Systems, 2014, 21, 389-400.	1.4	26
21	Errors and Their Mitigation at the Kirchhoff-Law-Johnson-Noise Secure Key Exchange. PLoS ONE, 2013, 8, e81103.	2.5	25
22	Current and voltage based bit errors and their combined mitigation for the Kirchhoff-lawâ€“Johnson-noise secure key exchange. Journal of Computational Electronics, 2014, 13, 271-277.	2.5	24
23	Fluctuation-Enhanced Sensing: Status and Perspectives. IEEE Sensors Journal, 2008, 8, 714-719.	4.7	23
24	Analysis of an Attenuator Artifact in an Experimental Attack by Gunnâ€“Allisonâ€“Abbott Against the Kirchhoff-Lawâ€“Johnson-Noise (KLJN) Secure Key Exchange System. Fluctuation and Noise Letters, 2015, 14, 1550011.	1.5	23
25	Information Networks Secured by the Laws of Physics. IEICE Transactions on Communications, 2012, E95.B, 1501-1507.	0.7	22
26	Random-Resistor-Random-Temperature Kirchhoff-Law-Johnson-Noise (RRRT-KLJN) Key Exchange. Metrology and Measurement Systems, 2016, 23, 3-11.	1.4	21
27	Unconditionally Secure Credit/Debit Card Chip Scheme and Physical Unclonable Function. Fluctuation and Noise Letters, 2017, 16, 1750002.	1.5	18
28	Fluctuation-enhanced sensing of bacterium odors. Sensors and Actuators B: Chemical, 2009, 142, 429-434.	7.8	17
29	Cable Capacitance Attack against the KLJN Secure Key Exchange. Information (Switzerland), 2015, 6, 719-732.	2.9	17
30	Current Injection Attack against the KLJN Secure Key Exchange. Metrology and Measurement Systems, 2016, 23, 173-181.	1.4	17
31	Resource Requirements and Speed versus Geometry of Unconditionally Secure Physical Key Exchanges. Entropy, 2015, 17, 2010-2024.	2.2	16
32	Binary Fingerprints at Fluctuation-Enhanced Sensing. Sensors, 2010, 10, 361-373.	3.8	15
33	A Static-loop-current Attack Against the Kirchhoff-Law-Johnson-Noise (KLJN) Secure Key Exchange System. Applied Sciences (Switzerland), 2019, 9, 666.	2.5	15
34	Bit errors in the Kirchhoff-Lawâ€“Johnson-Noise secure key exchange. International Journal of Modern Physics Conference Series, 2014, 33, 1460367.	0.7	14
35	Enhanced Usage of Keys Obtained by Physical, Unconditionally Secure Distributions. Fluctuation and Noise Letters, 2015, 14, 1550007.	1.5	14
36	Twisted Radio Waves and Twisted Thermodynamics. PLoS ONE, 2013, 8, e56086.	2.5	13

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37	Resistance noise at the metalâ€“insulator transition in thermochromic VO2 films. Journal of Applied Physics, 2015, 117, .	2.5	13
38	Key Exchange Trust Evaluation in Peer-to-Peer Sensor Networks With Unconditionally Secure Key Exchange. Fluctuation and Noise Letters, 2016, 15, 1650008.	1.5	13
39	Fluctuation-Enhanced Sensing for Biological Agent Detection and Identification. IEEE Nanotechnology Magazine, 2011, 10, 1238-1242.	2.0	12
40	Comments on â€œA New Transient Attack on the Kish Key Distribution Systemâ€• Metrology and Measurement Systems, 2016, 23, 321-331.	1.4	12
41	Comments on the â€œGeneralizedâ€•KJLN Key Exchanger with Arbitrary Resistors: Power, Impedance, Security. Fluctuation and Noise Letters, 2021, 20, 2130002.	1.5	11
42	Does information have mass? [Point of View]. Proceedings of the IEEE, 2013, 101, 1895-1899.	21.3	10
43	Log-normal distribution of single molecule fluorescence bursts in micro/nano-fluidic channels. Applied Physics Letters, 2011, 99, 143121.	3.3	9
44	Lognormal distribution of firing time and rate from a single neuron?. Cognitive Neurodynamics, 2015, 9, 459-462.	4.0	9
45	Fluctuation-Enhanced Sensing (FES): A Promising Sensing Technique. Applied Sciences (Switzerland), 2020, 10, 5818.	2.5	9
46	Stochastic processes in light-assisted nanoparticle formation. Applied Physics Letters, 2012, 100, 193106.	3.3	8
47	Alternating (AC) Loop Current Attacks Against the KLJN Secure Key Exchange Scheme. Fluctuation and Noise Letters, 2021, 20, .	1.5	7
48	Deterministic Random Number Generator Attack Against the Kirchhoff-Law-Johnson-Noise Secure Key Exchange Protocol. Fluctuation and Noise Letters, 2021, 20, 2150046.	1.5	7
49	Perspectiveâ€”On the thermodynamics of perfect unconditional security. Applied Physics Letters, 2021, 119, .	3.3	7
50	Bird's-eye view on noise-based logic. International Journal of Modern Physics Conference Series, 2014, 33, 1460363.	0.7	5
51	Unconditional security for the smart power grids and star networks. , 2015, , .		4
52	Entanglement, and Unsorted Database Search in Noise-Based Logic. Applied Sciences (Switzerland), 2019, 9, 3029.	2.5	4
53	More on the Reference-Grounding-Based Search in Noise-Based Logic. Fluctuation and Noise Letters, 2022, 21, .	1.5	3
54	Twisted waves: Concept and limitations. , 2013, , .		2

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55	Ternary Fingerprints with Reference Odor for Fluctuation-Enhanced Sensing. Biosensors, 2020, 10, 93.	4.7	2
56	Statistical Random Number Generator Attack Against the Kirchhoff-Law-Johnson-Noise (KLJN) Secure Key Exchange Protocol. Fluctuation and Noise Letters, 2022, 21, .	1.5	2
57	Design and Implementation of a Cost Effective System for Module Test Automation. , 2007, , .		0
58	Noise-based information processing. , 2011, , .		0
59	Optimum drift velocity for single molecule fluorescence bursts in micro/nano-fluidic channels. Applied Physics Letters, 2012, 101, 043120.	3.3	0
60	Fluctuation-Enhanced Sensing. Journal of Sensors, 2020, 2020, 1-2.	1.1	0
61	Nonlinearity Attack Against the Kichhoffâ€“Lawâ€“Johnson-Noise (KLJN) Secure Key Exchange Protocol. Fluctuation and Noise Letters, 0, , .	1.5	0
62	INSTANTANEOUS, NON-SQUEEZED, NOISE-BASED LOGIC. , 2022, , 515-521.		0
63	NOISE-BASED LOGIC: WHY NOISE? A COMPARATIVE STUDY OF THE NECESSITY OF RANDOMNESS OUT OF ORTHOGONALITY. , 2022, , 507-513.		0
64	Do Electromagnetic Waves Exist in a Short Cable at Low Frequencies? What Does Physics Say?. , 2022, , 63-75.		0
65	On the Theory and Design of Cold Resistors. , 2022, , 461-474.		0
66	Memristor Equations: Incomplete Physics and Undefined Passivity/Activity. , 2022, , 359-366.		0
67	Comments on â€œSub-kBT Micro-Electromechanical Irreversible Logic Gateâ€• , 2022, , 503-506.		0
68	Noise-Based Logic Gates by Operations on the Reference System. , 2022, , 531-540.		0
69	From Cold Resistor to Secure Key Exchanger. Fluctuation and Noise Letters, 0, , .	1.5	0