Publication list of Laszlo B. Kish
(Until 1999, his family name was Kiss)

June 2018.

417 items listed
(Conference posters without paper publication are omitted)

A: Patents and patent disclosures (25 items: 9 patents and 16 disclosures)
B: Books/proceedings (16 items)
C: Peer reviewed journal articles (219 articles)
   (C+: Invited review papers in peer reviewed journals: 6 articles)
   (C: Regular papers in peer reviewed journals: 213 articles)
D: Invited and plenary talks at international conferences (67 articles)
E: Book chapters and regular talks at international conferences (90 articles)

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A. Patents and patent disclosures (25 items)
   (6 US patents, 3 Swedish patents and 16 disclosures of other inventions)

TAMU patent disclosure, August 18, 2005.


A-1. L.B. Kiss, C.G. Granqvist, J. Söderlund, "Detection of chemicals based on resistance fluctuation-spectroscopy", Swedish patent, # SE 9803019-0; Publ. No.: 513148 (now, public) http://was.prv.se/spd/pdf/8V-xToJGa7rWS3oljenFlQ/SE513148.C2.pdf

B. Monograph; edited books; edited journal issues; and proceedings (16 items)


C. Peer reviewed journal articles (219 articles)

C+. Invited review papers in peer reviewed journals (6 articles)


C. Regular papers in peer reviewed journals (213 articles)

C-213. M. Melhem, **L.B. Kiss**, "Static-loop-current attack against the KLJN secure key exchange system", submitted (June 2018)


C-211. J. Song, **L.B. Kiss**, "Does a standalone, “cold” (low-thermal-noise), linear resistor exist without cooling?", accepted for publication in *Fluct. Noise. Lett.* (May 2018).


C-176. Y. Saez, L.B. Kish, "Errors and their mitigation at the Kirchhoff-law-Johnson-noise secure key exchange", PLoS ONE 8 (2013) e81103. doi:10.1371/journal.pone.081103; open access: 
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.081103


http://www.vixra.org/abs/1309.0094

C-173. E. Gonzalez, L.B. Kish, R. Balog, P. Enjeti, "Information theoretically secure, enhanced Johnson noise based key distribution over the smart grid with switched filters", PLoS ONE 8 (2013) e70206; open access: 
http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.070206

C-172. L.B. Kish, "Enhanced secure key exchange systems based on the Johnson-noise scheme", Metrology & Measurement Systems 20 (2013) 191–204; open access: 

C-171. L.B. Kish, R.D. Nevels, "Twisted radio waves and twisted thermodynamics", PLoS ONE 8 (2013) e56086. open access: 
http://www.plosone.org/article/info:doi/10.1371/journal.pone.056086


http://arxiv.org/abs/1004.0147

http://vixra.org/abs/1208.0226

http://arxiv.org/abs/1204.2545

http://www.plosone.org/article/info:doi/10.1371/journal.pone.0046800


http://arxiv.org/abs/1204.3317

http://arxiv.org/abs/1110.0197


C-134. L.B. Kish, O. Saidi, "Unconditionally secure computers, algorithms and hardware, such as memories, Fluctuation and Noise Letters 8 (June 2008) L95-L98.


C-120. C.G. Granqvist, A. Azens, P. Heszler, L.B. Kish, L. Österlund, "Nanomaterials for benign indoor


C-75. P. Ruszczynski, L.B. Kish, S.M. Bezrukov, "Noise-assisted traffic of spikes through neuronal junctions", Chaos 11 (2001) 581


C-33. L.B. Kiss, Z. Gingl, Zs. Marton, J. Kertesz, F. Moss, G. Schmera and A. Bulsara, "1/f noise in systems


C-6. L.B. Kiss, J. Kovacs, P. Mogyorosi, E. Szil, "A modified method for the determination of absorptivity of metal-oxide systems at \( \lambda = 10.6 \) m", Reviews of Roum. Phys. 31 (1986) 1053


D. Invited, keynote and plenary talks at international conferences (67 articles)


D-61. H. Wen, L.B. Kish, "Noise Based Logic: Why Noise?", Invited talk at ICCAD 2012 in the Special Session: Computing in the Random Noise: The Bad, the Good, and the Amazing Grace, November 5,
2012, San Jose, California.
Presented by L.B. Kish.

Presented by L.B. Kish (theory), and R. Mingesz (live demonstration).

Presented by L.B. Kish.

Paper presented by L.B. Kish.

Paper presented by L.B. Kish.

Paper presented by L.B. Kish.

Paper presented by L.B. Kish.

Paper presented by L.B. Kish.

Paper presented by F. Peper.

Paper presented by L.B. Kish.

Paper presented by L.B. Kish.

Paper presented by L.B. Kish.

Paper presented by L.B. Kish.
   Paper presented by G. Schmera.

   Paper presented by L.B. Kish.

   Paper presented by L.B. Kish.

   Paper presented by Maria King.

D-44. L.B. Kish, Y. Li, "Heat, Speed and Error Limits of Moore's Law at the Nano Scale", Invited Talk, Second Conference on Nanoscale Devices and System Integration, April 4-6, 2005, Houston, TX, USA.
   Paper presented by Y. Li.

   Paper presented by Maria King.

   Paper presented by L.B. Kish.

   Paper presented by L.B. Kish.

   Paper presented by L.B. Kish.

   Paper presented by Mosong Cheng.

D-38. M. D. King, S. Seo, J. U. Kim, M. Cheng, L. B. Kish, R. F. Young, "Nanoscale detection of bacteriophage triggered ion cascade, invited talk, conference Fluctuations and Noise in Biological, Biophysical and Biomedical Systems III, SPIE's Third Symposium on Fluctuations and Noise (FaN'05), Austin, TX, May 24-26, 2005.
   Paper presented by Maria King.

Paper presented by Peter Heszler.


Paper presented by L.B. Kish.

D-35. L.B. Kish, "Noise, speed and dissipation: end of Moore's law of miniaturization", invited talk, conference Noise in Electronic Devices and Circuits, SPIE's First Symposium on Fluctuations and Noise (FaN'03), Santa Fe, NM, June 1-4, 2003. 

Paper presented by L.B. Kish.


Paper presented by L.B. Kish.


Paper presented by L.B. Kish.


D-31. L.B. Kish, Noise, information, power dissipation, size and speed in nano-ionic and nano-electronic systems", invited talk, NATO Advanced Research Workshop on Stochastic systems: from Randomness to Complexity, Erice (Sicily), July 26-Aug. 01, 2002. 


Paper presented by L.B. Kish.


Paper presented by L.B. Kish.


Paper presented by L.B. Kish.


Paper presented by C.G. Granqvist.

Paper presented by L.B. Kish, at the Advanced Research Workshop on Semiconductor Nanostructures, 5-9 February 2001, Queenstown, New Zealand

Paper presented by L.B. Kish at the SPIE Conference on Smart Electronics and MEMS, Melbourne, Australia, 13-15th December 2000

Paper presented by L.B. Kish as a keynote talk, in the session "In-situ and Surface Analysis", 7th Internat. Conf. on Plasma Surface Engineering: Garmisch-Partenkirchen, Germany, September 17-21, 2000

Paper presented by L.B. Kish at the Symp. on Nanophase and Nanocomposite Materials, the 1999 Fall Meeting of the Materials Research Society (MRS), 28 Nov. - 3 Dec. 1999, Boston, USA

Paper presented by L.B. Kish.

Paper presented by L.B. Kish as an invited talk at the Final Annual Scientific Meeting of the European Science Foundation's NANO Network, 10-11 December 1999, Duisburg, Germany

Paper presented by L.B. Kish as a plenary talk at the European Aerosol Conference '99 (EAC'99), Sept. 5-10, 1999, Prague

Paper presented by L.B. Kish as an invited talk at the 15th International Conference on Noise in Physical Systems (ICNF'99), 23-26 August 1999, Hong Kong


Paper presented by L.B. Kiss as an invited talk at the Symposium on Nanostructured Materials by Gas Deposition Technique, 11-12 December 1998, Tsukuba, Japan

Paper presented by L.B. Kiss as an invited talk at the Fourth International Conference of Nanostructured

Paper presented by L.B. Kiss as an invited talk at the Euroconference "Nanoscience and Nanotechnology", Denmark, May 1998

Paper presented by Z. Gingl as an invited talk at the 1st Internat. Conf. on Stochastic Resonance in Biological Systems, Arcidosso, Italy, May 1998

Paper presented by Z. Gingl as an invited talk at the 14th International Conference on Noise in Physical Systems (ICNF’97), Leuven, Belgium, July 1997

Paper presented by L.B. Kiss as an invited talk at Dynamics Days 1996, Lyon, France, July 1996

Paper presented by L.B. Kiss as an invited talk at the 13th International Conference on Noise in Physical Systems (ICNF’95), Palanga, Lithuania, June 1995

Paper presented by L.B. Kiss as an invited talk at 3rd Techn. Conf. on Nonlin. Dynam. and Full Spectrum Processing, Mystic, USA, July 1995

D-7. L.B. Kiss and Z. Gingl, "Stochastic Resonance: Around the Threshold..."
Paper presented by L.B. Kiss as an invited talk at Adriatico Res. Conf. on Randomness, Stochasticity and Noise, ICTP, Trieste, Italy, August 1995

Paper presented by L.B. Kiss as an invited talk at Noise and Reliability of Semiconductor Devices, Brno, Czech Rep., July 1995


D-3. L.B. Kiss, Z. Gingl, Zs. Marton, J. Kertesz, F. Moss, G. Schmera and A. Bulsara, "1/f noise in systems showing stochastic resonance"; published as D-33

Paper presented by L.B. Kiss as an invited talk at the 10th International Conference on Noise in Physical


E. Regular papers at international conferences, and book chapters *posters without paper publication are omitted*  (90 articles)

E-90. L.B. Kish, "Is there thermal noise in thermal equilibrium at zero temperature?", 8th International Conference on Unsolved Problems on Noise (UPoN-2018), July 9-13, Gdansk, Poland.
Presented by L.B. Kish.

E-89. L.B. Kish, "Standalone cold virtual resistor? Can we cool by a linear amplifier without non-linearity, switches, or phase transition?", 8th International Conference on Unsolved Problems on Noise (UPoN-2018), July 9-13, Gdansk, Poland.
Presented by L.B. Kish.

E-88. L.B. Kish, "How to defend against loop current attacks in the KLJN secure key exchange scheme?", 8th International Conference on Unsolved Problems on Noise (UPoN-2018), July 9-13, Gdansk, Poland.
Presented by L.B. Kish.

E-87. L.B. Kish, "Information storage and channel capacity of brain; an unsolved problem of noise", 8th International Conference on Unsolved Problems on Noise (UPoN-2018), July 9-13, Gdansk, Poland.
Presented by L.B. Kish.

E-86. L.B. Kish, "Mathematical model for the impact of political correctness on science", 8th International Conference on Unsolved Problems on Noise (UPoN-2018), July 9-13, Gdansk, Poland.
Presented by L.B. Kish.

Presented by L.B. Kish.

http://europe.uab.es/upon2015/Slides/p022.pdf
Presented by L.B. Kish.

Presented by L.B. Kish.

Presented by Robert Mingesz.

Presented by Janusz Smulko.

Presented by Sunil Khatri.

Hot Topic of Physical Informatics (HoTPI-2013), November 10-13, 2013, Changsha, China.
Presented by L.B. Kish.

Hot Topic of Physical Informatics (HoTPI-2013), November 10-13, 2013, Changsha, China.

Presented by L.B. Kish.


Hot Topic of Physical Informatics (HoTPI-2013), November 10-13, 2013, Changsha, China.

Presented by L.B. Kish.


Presented by R. Nevels.


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Presented by L.B. Kish.


Paper presented by L.B. Kish.


Presented by L.B. Kish.


Paper presented by S. Khatri.


Paper presented by S. Khatri.


Paper presented by C. Kwan.


Paper presented by F. Peper.


Paper presented by C. Kwan.


Paper presented by C. Kwan.


Paper presented by L.B. Kish.


Paper presented by V.M. Aroutiounian.


*Paper presented by L.B. Kish.*


*Paper presented by G. Schmera.*


*Paper presented by L.B. Kish.*


*Paper presented by L.K.J. Vandamme.*


*Paper presented by P. Ruszczynski.*


*Paper presented by P. Heszler.*


*Paper presented by L.B. Kish.*


*Paper presented by L.B. Kish.*


*Paper presented by S. Roumiantsev.*


*Paper presented by J. Solis.*

E-29. J.L. Solis, S. Saukko, **L.B. Kish**, C.G. Granqvist, V. Lantto, "Nanocrystalline Tungsten-Oxide Thick Films with High Sensitivity to H$_2$S at Room Temperature", 8th International Meeting on Chemical Sensors, Switzerland, 2000

*Paper presented by J. Solis.*

with Nanocrystalline WO$_3$ Films Made by Advanced Reactive Gas Deposition", 5th International Conf. on Nanostructured Materials, NANO'2000, Japan

**Paper presented by J. Solis.**

**E-27.** J.L. Solis, S. Saukko, **L.B. Kiss**, C.G. Granqvist, V. Lantto, "Semiconductor gas sensors based on nanostructured tungsten oxide", II International Conf. on Semiconductor Gas Sensors, SGS'2000, Poland

**Paper presented by J. Solis.**


**Paper presented by L.B. Kiss at the 15th International Conference on Noise in Physical Systems (ICNF'99), 23-26 August 1999, Hong Kong**


**Paper presented by R. Vajtai at Sensor'99, Nürnberg, Germany, 18th May 1999**


**Paper presented by L.B. Kiss at 2nd International Conf. on Unsolved Problems of Noise (UPoN'99), Adelaide, Australia, 11-15 July, 1999**


**Paper presented by L.B. Kiss at 2nd International Conf. on Unsolved Problems of Noise (UPoN'99), Adelaide, Australia, 11-15 July, 1999**

**E-22.** **L.B. Kiss**, S. Bezrukov, "Noise assisted traffic of cars and neural spikes", published in B-3, p. 179

**Paper presented by L.B. Kiss at 2nd International Conf. on Unsolved Problems of Noise (UPoN'99), Adelaide, Australia, 11-15 July, 1999**


**Paper presented by L.B. Kiss at the Internat. Conf. on Stochastic and Chaotic Dynamics, Ambleside (UK) 16–20 August 1999**


**Paper presented by C. Pennetta at ICNF-14, Leuven, Belgium, July 1997**


**Paper presented by C. Pennetta 21-th Internat. Conf on Microelectronics, Nis (Yugoslavia), September 1997**


**Paper presented by C. Pennetta at S. Margherita di Pula (CA), Italy, September 1997**


**Paper presented by L.B. Kiss at UPoN'96, Szeged, Hungary, 3-7 September 1996**


**Paper presented by K. Loerincz at UPoN'96, Szeged, Hungary, 3-7 September 1996**


**Paper presented by Z. Gingl at UPoN'96, Szeged, Hungary, 3-7 September 1996**
*Paper presented by C. Pennetta at UPoN'96*, Szeged, Hungary, 3-7 September 1996


E-12. L.B. Kiss, “Significant improvement of signal to ratio by stochastic resonance”, published in D-9, p. 714
*Paper presented by L.B. Kiss at ICNF-13*, Palanga, Lithuania, June 1995


*Paper presented by L.B. Kiss at Low Temperature Physics-19*, Oregon, USA, August 1994


*Paper presented by M. Björnander at NATO Advanced Study Institute*, Greek, 1994

*Paper presented by M. Björnander at ALPBACH*, Austria, 1994


E-5. Z. Gingl, L.B. Kiss and R. Vajtai, "1/f<sup>k</sup> noise generated by scaled Brownian motion", published with D-2, p. 335
*Paper presented by Z. Gingl at ICNF-10*, Budapest, Hungary, August 1989

*Paper presented by Gy. Trefan at ICNF-10*, Budapest, Hungary, August 1989

*Paper presented by A. Ambrozy at ICNF-10*, Budapest, Hungary, August 1989

*Paper presented by L.B. Kiss at ICNF-8*, Rome, Italy, September 1985

*Paper presented by A. Ambrozy at ICNF-8*, Rome, Italy, September 1985