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

September 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-xToJGAh7WS3oljenFLQ/SE515148.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


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).


http://arxiv.org/abs/1411.2026

http://vixra.org/abs/1404.1900

On KLJN-based secure key distribution in vehicular communication networks\(^{(2015)}\) 1550008. 

"Enhanced usage of keys obtained by physical, unconditionally secure distributions", 
http://arxiv.org/abs/1408.5800

"Elimination of a Second-Law-attack, and all cable-resistance-based attacks, in the Kirchhoff–law–Johnson-noise (KLJN) secure key exchange system", 
Entropy 16 (2014) 5223-5231. 

H.P. Chen, E. Gonzalez, Y. Saez, L.B. Kish, "Do electromagnetic waves exist in a short cable at low frequencies? What does physics say?" 

http://vixra.org/abs/1309.0106

L.B. Kish, C.G. Granqvist, "On the security of the Kirchhoff-law-Johnson-noise (KLJN) communicator", 


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. Ruszcynski, 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


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


http://europe.uab.es/upon2015/Slides/p039.pdf

Presented by L.B. Kish


Presented by Janusz Smulko.


Presented by L.B. Kish.


invited talk, Hot Topic of Physical Informatics (HoTPI-2014), November 10-13, 2013, Changsha, China.


Presented by L.B. Kish.

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 L.B. Kish.


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.*

*Paper presented by L.B. Kish.*

*Paper presented by L.B. Kish.*

*Paper presented by L.B. Kish.*

*Paper presented by L.B. Kish on September 3, 2002.*

*Paper presented by L.B. Kish on July 29, 2002.*

*Paper presented by L.B. Kish on the 18th of March, 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. Kiss, at the Advanced Research Workshop on Semiconductor Nanostructures, 5-9 February 2001, Queenstown, New Zealand._


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


_Paper presented by L.B. Kiss 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. Kiss 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. Kiss._


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

**D-18. L.B. Kiss, C.G. Granqvist, "On Some Hot Topics of Gas Phase Synthesis: Nanoparticles, Nanotubes and Nanotoroids"

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


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


**D-15. L.B. Kiss, "On Nano-Object Formation in Gas: Nanoparticles, Nanotubes and Nanotoroids"

_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 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. Mutaz Melhem, 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.*

**E-82. E. Gonzalez, R. Balog, R. Mingesz, L.B. Kish,** "Unconditionally security for the smart power grids and star networks", 23rd International Conference on Noise and Fluctuations (ICNF 2015), Xian, China, June 2-5, 2015. DOI: 10.1109/ICNF.2015.7288626 
*Presented by Robert Mingesz.*

*Presented by Janusz Smulko.*

*Presented by Sunil Khatri.*

*Presented by L.B. Kish.*

**E-78. L.B. Kish, D. Abbott, C.G. Granqvist, H. Wen,** "Facts, myths and fights about the KLJN classical physical...


Presented by L.B. Kish.

*Paper presented by L.B. Kish.*


Paper presented by V.M. Aroutiounian.


*Paper presented by G. Schmera.*

*Paper presented by G. Schmera.*

*Paper presented by L.B. Kish.*

*Paper presented by S. Sethuraman.*

*Paper presented by J. Kim.*

*Paper presented by L.B. Kish.*

*Paper presented by L.B. Kish.*

*Paper presented by S. Sethuraman.*

*Paper presented by L.B. Kish.*

*Paper presented by J. Smulko.*


Paper presented by L.B. Kish.

E-38. L.B. Kish, G. Schmera, "Surface diffusion enhanced chemical sensing by surface acoustical waves", IMCS 2002, 9th International Meeting on Chemical Sensors, Boston, July 7-10, 2002
Paper presented by G. Schmera.

Paper presented by J. Ederth

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.

Paper presented by J. Solis.
Paper presented by J. Solis.

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 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 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