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

March 2021.

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

A: Patents and patent disclosures (25 items: 9 patents and 16 disclosures)

B: Books/edited journal issues/proceedings (17 items)

C: Peer reviewed journal articles (231 articles)
(C*: Invited review papers in peer reviewed journals: 6 articles)
(C: Regular papers in peer reviewed journals: 225 articles)

D: Invited and plenary talks at international conferences (67 articles)

E: Book chapters and regular talks at international conferences (94 articles)

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


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-xToJGAh7WS3oljenFIQ/SE513148.C2.pdf

B. Monograph; edited books; edited journal issues; and proceedings (17 items)


C. Peer reviewed journal articles (231 articles)

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


C. Regular papers in peer reviewed journals (225 articles)

C-225. M. Melhem, C. Chamon, S. Ferdous, L.B. Kish, "AC loop current attacks against the KLJN secure key exchange scheme", accepted for publication (2020) in *Fluct. Noise Lett.*.


C-208. K.M. Sundqvist, L.B. Kish, "Memristor equations: incomplete physics and undefined passivity/activity",


DOI: 10.1142/S021947751550011X  


http://arxiv.org/abs/1408.5800

http://vixra.org/abs/1406.0124


http://arxiv.org/abs/1404.1900


http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0081810 ;  

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.0081103; open access:  


C-155. F. Peper, **L.B. Kish**, "Instantaneous, non-squeezed, noise-based logic", *Fluct. Noise Lett.* **10** (June 2011)


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


C-47. E. Ochs, A. Seeger, H. Stoll, L.B. Kiss, J. Söderlund, "Electrical noise in nanocrystalline films",...


C-1. I. Hevesi, L.B. Kiss, M.I. Torok and L. Nanai, "Electron concentration in vanadium pentoxide single

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


**D-56. L.B. Kish, H.C. Chang, M.D. King, C. Kwan, J.O. Jensen**, "Fluctuation-enhanced sensing for biological

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

Paper presented by Maria King.


Paper presented by L.B. Kish.


Paper presented by L.B. Kish.


Paper presented by Mosong Cheng.


Paper presented by L.B. Kish.


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.  


D-29. L.B. Kish, "Noise aspects of nanotechnology driven electronics", special, 40-minutes talk, at the National Radio Science Meeting of the URSI, Boulder, Colorado, 9-12 January 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. 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

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


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 Nanostuctured Materials, NANO'98, Stockholm, June 1998

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

D-9. L.B. Kiss, P. Svedlindh, M. Bjornander, P. Nordblad, C.M. Muirhead, J. Smithyman and U. Klein, "Why is the noise in high Tc superconductors so strong?", Proc. 13th Intern. Conf. on Noise in Physical Systems,
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 ICNF-9, Montreal, Canada, May 1987.

E. Regular papers at international conferences, and book chapters (94 articles)

*posters without paper publication are omitted*

Presented by G. Vadai.

Presented by C. Kwan.
Presented by C. Kwan.

E-91. 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-90. J. Song, 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-89. M. 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-88. 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-87. 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.*

*Presented by L.B. Kish.*

*Paper presented by L.B. Kish.*

*Presented by J. Smulko.*

*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.*

L.B. Kish, "Weight fluctuations of information storage media", Opening Talk at the 4th international


Paper presented by L.B. Kish.


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.


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 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 at 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/\text{f}^k 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