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

August 2020.

432 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 (229 articles)
   (C+: Invited review papers in peer reviewed journals: 6 articles)
   (C: Regular papers in peer reviewed journals: 223 articles)
D: Invited and plenary talks at international conferences (67 articles)
E: Book chapters and regular talks at international conferences (94 articles)

==========================================================================

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

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


C. Peer reviewed journal articles (229 articles)

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


C. Regular papers in peer reviewed journals (223 articles)


C-222. M. Melhem, C. Chamon, S. Ferdous, L.B. Kish, "AC loop current attacks against the KLJN secure key exchange scheme", submitted for publication (2020).


C-173. E. Gonzalez, L.B. Kish, R. Balog, P. Enjeti, "Information theoretically secure, enhanced Johnson noise


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-110. L.B. Kish, "Totally secure classical communication utilizing Johnson (-like) noise and Kirchhoff's law",...


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


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


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.

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.


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


L.B. Kish, P. Chaoguang, J. Ederth, W. H. Marlow, C.G. Granqvist, S.J. Savage, "In-situ Electrical Transport Measurements and Self-Organization in Gold Nanoparticle Films During and after Deposition", keynote talk, 7th Internat. Conf. on Plasma Surface Engineering; Garmisch-Partenkirchen, Germany, 2000

L.B. Kish, C.G. Granqvist, R. Vajtai, E. Kruis, P. Ajayan, "New Phenomena in Modern Gas-Phase Nanotechnology", invited talk, Symp. on Nanophase and Nanocomposite Materials, the 1999 Fall meeting of the Materials Research Society

Paper presented by L.B. Kish at the Symp. on Nanophase and Nanocomposite Materials, the 1999 Fall

*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 G. Balážsi as an invited talk at the 2nd International Conference on Unsolved Problems of Noise (UPoN'99), 11-15 July 1999, Adelaide, Australia*


*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 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*


*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*

D-8. **L.B. Kiss**, "Possible breakthrough: significant improvement of signal to noise ratio by stochastic..."

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-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.*


*Presented by L.B. Kish*.


E-53. L. Török, L. Kish, "Integro-differential stochastic resonance", Conference Fluctuations and Noise in Biological, Biophysical, and Biomedical Systems II, SPIE's Second Symposium on Fluctuations and Noise (FaN'04), Canary Islands, Spain, May 24-27, 2004; eds. Derek Abbott, Sergey M. Bezrukov, András

Paper presented by L.B. Kish.


Paper presented by G. Schmera.


Paper presented by G. Schmera.


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.

E-41. L.B. Kish, "End of Moore's Law of Miniaturization; Noise, Speed, Dissipation", conference on Smart Electronics, MEMS, BioMEMS, and Nanotechnology; SPIE's Symposium on Smart Materials and
Paper presented by L.B. Kish.


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 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. Loerinz at UPoN'96, Szeged, Hungary, 3-7 September 1996

E-15. Z. Gingl and L.B. Kiss, “The 1/f Spectrum of Gaussian Noise is Invariant Against Amplitude-Saturation
Nonlinearity", published in B-2
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\textsuperscript{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