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

September 2016.

399 items listed
(Conference posters with only-abstract are omitted)

A: Patents and patent disclosures (24 items: 9 patents and 15 disclosures)
B: Editor of special journal issues and books/proceedings (13 items)
C: Peer reviewed journal articles (212 articles)
   (C⁺: Invited review papers in peer reviewed journals: 6 articles)
   (C: Regular papers in peer reviewed journals: 206 articles)
D: Invited and plenary talks at international conferences (66 articles)
E: Book chapters and regular talks at international conferences (84 articles)

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A. Patents and patent disclosures (24 items)
(6 US patents, 3 Swedish patents and 15 disclosures of other inventions)


A-5. G. Schmera and L.B. Kish, "Apparatus for chemical analyzing analyte; surface acoustic wave (SAW) detector; generating a surface acoustic wave across a surface; oscillatory output signal; amplitude density histogram; generating an analyte output signal that identifies a total number of the adsorbed molecules ", US Patent, Navy Case #8412. US Patent US7524460 B1 (May 2003).


A-2 L.B. Kiss, C.G. Granqvist, J. Söderlund, "Particle size determination", Swedish patent, Ser. No.: 980320-2; Publ. No.: 513194 (now, public)

A-1. L.B. Kiss, C.G. Granqvist, J. Söderlund, "Detection of chemicals based on resistance fluctuation-spectroscopy", Swedish patent, Ser. No.: 9803019-0; Publ. No.: 513148 (now, public)

B. Editor of books, special journal issues and proceedings (13 items)


C. Peer reviewed journal articles (212 articles)

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


C. Regular papers in peer reviewed journals (206 articles)


C-133. L.B. Kish, O. Saidi, "Unconditionally secure computers, algorithms and hardware, such as memories, Fluctuation and Noise Letters 8 (June 2008) L95-L98.


L1-L6.


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


C-69. L.B. Kish, R. Vajtai, P.M. Ajayan, "Random Walk in an Eddy and Tube Formation from Fine Particles",
Chaos 11 (2001) 674


D. Invited, keynote and plenary talks at international conferences (66 articles)


Presented by L.B. Kish.


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

Presented by L.B. Kish


Presented by Janusz Smulko.


Presented by L.B. Kish.


Presented by L.B. Kish.


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 Mosong Cheng.


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 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. 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

Kruis, H. Fissan, "Negative impedance, noise and percolation: relevant issues for nanocrystalline films", invited talk, the European Science Foundation's Workshop on Physics of Optical and Electrical Phenomena in Nanoparticle Materials, 8-9 December 1999, Duisburg, Germany

**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*

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

*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*

**D-16.** G. Balazsi, L.B. Kiss and F. Moss, "Spatiotemporal stochastic resonance and its consequences in neural systems", published in A-3, p.159

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

**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*

**D-14.** L.B. Kiss, J. Söderlund, G.A. Niklasson and C.G. Granqvist, "The real origin of lognormal size distribution of nanoparticle sizes in vapour growth processes", published as D-54

*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*

**D-12.** Z. Gingl, R. Vajtai and L.B. Kiss, "A self-adaptive stochastic resonator with logarithmic transfer", to be published in D-54

*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*

**D-10.** K. Lorincz, Z. Gingl and L.B. Kiss, “End of a decade of doubts: a stochastic resonator is able to greatly improve signal-to-noise ratio”

*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 ICNF-9, Montreal, Canada, May 1987.
E. Book chapters and regular papers at international conferences *posters with only abstracts are omitted* (84 articles)


E-73. L.L. Kish, J. Kameoka, C.G. Granqvist, L.B. Kish, "Diffusion Noise and Photonic Shot Noise at Single Molecule Fluorescence in Micro/Nano-Fluidic Channels", The 2nd Sweden-Japan Workshop on


E-59. C.G. Granqvist, A. Azens, P. Heszler, L.B. Kish, L. Österlund, "Smart Nano-Materials for Benign Indoor


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.


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.

E-35. P. Ruszczynski, L.B. Kish and S.M. Bezrukov, "Fluctuation of cars and neural spikes at junctions", 16th International Conference on Noise in Physical Systems and 1/f Fluctuations, Gainesville Florida,

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 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 at ICNF-97, Palanga, Lithuania, June 1995


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 resonace”, 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


E-5. Z. Gingl, L.B. Kiss and R. Vajtai, "1/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