

Lista de lucrări

Numele și prenumele: Kenéz Lajos

A. Teza de doctorat. *Cercetări de fizica plasmei pe surse de ioni de rezonanță electronică ciclotronică*
–2003 Universitatea din Debrecen, Ungaria

B. Cărți publicate

B1. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate la edituri recunoscute în străinătate.

B2. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS.

1. **Kenéz L.**, *Elektrotechnika I.*, Ed. Ábel Cluj-Napoca, 2008
2. Karácsony J., **Kenéz L.**, *Optika I.*, Ed. Ábel Cluj-Napoca, 2008
3. **Kenéz L.**, *Plazmafizikai kutatások Elektron Ciklotron Rezonancia Ionforráson*, Ed. GlobeEdit, Budapest, 978-3-330-71312-3

B3. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate la alte edituri sau pe plan local.

B4. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

B5. Capitole de cărți publicate în străinătate

B6. Capitole de cărți publicate în țară

C. Lucrări științifice publicate

C1. Lucrări științifice publicate în reviste cotate ISI

1. Biri S., **Kenéz L.**, Valek A., Nakagawa T., Kidera M., Yano Y., Production of highly charged ions in electron cyclotron resonance ion sources using an electrode in two modes, *Review of Scientific Instruments* **71** (2000)869-871.
2. Szabó Cs., Biri S., **Kenéz L.**, Suta T., Valek A., Diagnostic reserach of highly ionized plasma generated by an ECR ion source, *Vacuum* **61** (2001)391-396;
3. Biri S., Valek A., **Kenéz L.**, Jánossy A., Kitagawa A., Production of multiply charged fullerene and carbon cluster beams by a 14.5 GHz ECR ion source, *Review of Scientific Instruments* **73** (2002)881-883.
4. **Kenéz L.**, Biri S., Karácsony J., Valek A., Langmuir probe data analysis including the multi-component multiply charged nature of electron cyclotron resonance ion source plasma, *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms* **187** (2002)249-258.
5. **Kenéz L.**, Biri S., Karácsony J., Valek A., Nakagawa T., Stiebing K. E., Mironov V., Diagnostic research of plasmas generated by a 14.5 GHz ECR ion source using Langmuir-probe, *Review of Scientific Instruments* **73** (2002)617-619.
6. Mironov V., Stiebing K. E., Hohn O., Schmidt L., Schmidt-Böcking H., Runkel S., Schempp A., Shirkov G., Biri S., **Kenéz L.**, Influence of the biased electrode on the plasma potential in ECRIS, *Review of Scientific Instruments* **73** (2002)623-625.

7. **L. Kenéz**, A. Kitagawa, J. Karácsony, M. Muramatsu, A. Valek and S. Biri, Study of the biased-disc effect using Langmuir-probes inserted in the hot region of the electron cyclotron resonance ion source (ECRIS) plasma, *Physics Letters A*, 372 (16), 2887-2892, 2008
8. **L. Kenéz**, Karácsony J., Derzsi A., Biri S, Theoretical model for study of the voltage-current curve of a Langmuir-probe used in the hot region of the ECR plasma, *Physics Letters A*, Volume 372 (29), 4927-4931, 2008
9. N. Kutasi, E. Filep, **L. Kenéz**, Heat transport modelling and adaptive model predictive temperature control of the direct current plasma nitriding process performed in a linear non-isotherm plasma reactor, *Journal of Control Engineering and Applied Informatics*, Vol. 19., No. 4., (2017), pp. 52-60

C2. Lucrări științifice publicate în reviste indexate în baze de date internaționale (indicați și baza de date).

1. **L. Kenéz**, **N. Kutasi**, E. Filep, L. Jakab-Farkas, L. Ferencz.: Anodic Plasma Nitriding in Hollow Cathode (HCAPN) HTM *J. Heat Treatm. Mat.* 73 (2018) 2, pp. 96-105

C3. Lucrări științifice publicate în reviste din străinătate (altele decât cele menționate anterior).

1. Biri S., Valek A., **Kenéz L.**, Research and development at the ECR Ion Source, *ATOMKI Annual Report* (1998) 70.
2. **Kenéz L.**, Biri S., Karacsony J., Valek A., ECR plasma diagnostics with Langmuir probe, *ATOMKI Annual Report* (1999) 75.
3. S. Biri, A. Valek, F. Ditroi, **L. Kenéz**, Cs. Szabó: Research and Application of the ECR Ion Source. *ATOMKI Annual Report* 1999, p 74.
4. S. Biri, A. Valek, **L. Kenéz** and A. Jánossy, The ECR Ion Source as Fullerene Accelerator, *ATOMKI Annual Report* (2000) 61.
5. **L. Kenéz**, S. Biri, A. Valek, J. Karácsony, Diagnostic Research of ECR Plasma using Langmuir Probe, *ATOMKI Annual Report* (2000) 65.
6. S. Biri, A. Valek, **L. Kenéz**, A. Jánossy, Production of multiply charged fullerene and carbon cluster beams by the ECR ion source, *ATOMKI Annual Report* (2001) 65.
7. **L. Kenéz**, S. Biri, J. Karácsony, A. Valek, Langmuir-probe data analysis including the complex nature of the ECR plasma, *ATOMKI Annual Report* (2001) 66.
8. **L. Kenéz**, Plazmafizikai kutatások elektron ciklotron-rezonanciás ionforráson, *Fizikai Szemle*, LIV/12 (2004) 411-414.
9. **L. Kenéz**, J. Karácsony, A. Kitagawa, M. Muramatsu, S. Biri, A. Valek, Local plasma diagnostics research on Electron Cyclotron Resonance Ion Source (ECRIS), *Publications of the Astronomy Department of the Eötvös University*, PADEU 15 (2005) 135-145.

C4. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS (altele decât cele din baze de date internaționale).

1. J. Karácsony, **L. Kenéz**, E. Csomortáni: Whistler mode Propagation in Low Temperature Magnetic Mirror Confined Plasma., *Studia Universitatis Babes-Bolyai, Physica*, XLII/2 (1997)
2. **Kenéz L.**, Karácsony J., Plazmadiagnosztikai kutatások Elektron Ciklotron Rezonancia Ionforráson, *Műszaki Szemle*, 15 (2001) 17-28
3. **L. Kenéz**, J. Karácsony, A. Libál, Ion current to a Langmuir probe in multi-component multiply ionized plasma, *Studia Universitatis Babes-Bolyai, Physica*, XLVII/1 (2002) 64
4. **L. Kenéz**, J. Karácsony, A. Derzsi, Langmuir-probe study of the hot electron cyclotron resonance ion source plasma, *Studia Universitatis Babes-Bolyai, Physica*, XLIX/2 (2004) 20

5. **L. Kenéz**, Zsakó Z., E. Filep., Automation of plasma diagnostics measurements performed in a non-isotherm plasma reactor, *Studia Universitatis, Physica*, LIII/1, 2008, 43-54
6. **Kenéz L.**, Papp S., Jakab-Farkas L., A Sapientia Tudományegyetem Penning típusú ionforrásra (SaPIG) alapuló ionnyaláb előállító rendszere, *Műszaki Szemle*, 49, 16-24, 2010
7. E. Filep., **L. Kenéz**, N. Kutasi, L. Ferencz, Formation of Ammonia in a Linear Plasma Reactor, *Studia Universitatis, Physica*, LXI/2, 2016, 39-48

C5. Lucrări științifice publicate în reviste, altele decât cele menționate anterior

1. L. Kenéz, N. Kutasi, E. Filep, L. Jakab-Farkas, I. Á. Szócs, Heat-treatment of 16MnCr steel in a linear non-isotherm plasma reactor, *Acta Universitatis Sapientiae, Electrical and Mechanical Engineering*, 5 (2013)
2. N. Kutasi, **L. Kenéz**, E. Filep, I. Szöllösi, L. Jakab Farkas, The Design of an Automated Plasma Diagnostic System and its Applications *Acta Universitatis Sapientiae, Electrical and Mechanical Engineering*, 7 (2015) 23–35
3. E. Filep, N. Kutasi, **L. Kenéz** – The plasma reactor of the Sapientia, University, *Múzeumi Füzetek – Acta Scientiarum Transylvanica, Chimica*, Vol.25/3, (2017), ISBN/ISSN:1842-5089

C6. Lucrări științifice publicate în volumele manifestărilor științifice

1. Biri S., Nakagawa T., Kidera M., **Kenéz L.**, Valek A., Yano Y., Highly charged ion production using an electrode in biased and floating modes, *Proceedings of the 14th International Workshop on ECR Sources. ECRIS99. CERN, Geneva, Switzerland, 3-6 May, 1999. Geneva, CERN 0 (1999) 81-85.*
2. Biri S., Nakagawa T., Kidera M., **Kenéz L.**, Valek A., Yano Y., Production of highly charged ions in ECR ion sources using an electrode in two modes (Book of abstr.: p. P072). 8th International Conference on Ion Sources (ICIS99). Kyoto, Japan, September 6-10, 1999.
3. T. Suta, E. Veibel, Cs. Szabó, Zs. Jánosfalvi, Z. Berényi, E. Takács, Cs. Koncz, A. Valek, S. Biri, and **L. Kenéz**, Systematic Measurements of Electron Temperatures Inside an ECR Plasma, 18th International Conference on X-ray and Inner-Shell Processes, Chicago, Illinois, USA, August 23 - 27, 1999.
4. Cs. Szabó, T. Suta, Zs. Jánosfalvi, Z. Berényi, E. Takács, A. Valek, S. Biri, and **L. Kenéz**, Analysis of Characteristic X-Ray Radiation Emitted by an ECR Heavy Ion Source, 18th International Conference on X-ray and Inner-Shell Processes, Chicago, Illinois, USA, August 23 - 27, 1999.
5. Szabó C. I., Biri S., **Kenéz L.**, Suta T., Valek A., Diagnostic reserach of highly ionized plasma generated by an ECR ion source, 8th Joint Vacuum Conference of Croatia, Austria, Slovenia and Hungary (JVC8). Pula, Croatia, June 4-9, 2000.
6. Suta T., Takács E., Biri S., Szabó C. I., **Kenéz L.**, Valek A.: Preparation for surface physics investigations with highly charged heavy ion produced by ECR ion sourece. 8th Joint Vacuum Conference. Pula, Croatia, 4-9 June, 2000.
7. Biri S., Jánossy A., **Kenéz L.**, Kitagawa A., Szabó Cs., Valek A., Status and new developments at the 14.5 GHz ATOMKI-ECRIS, *Proceedings of the Workshop on the Production of Intense Beams of Highly Charged Ions. Catania, 24-27 Sept., 2000. PIBHI-2000. Eds: S. Gammino and G. Ciavola. Bologna, INFN, LNS. 72 (2001)73.*
8. Biri S., Valek A., **Kenéz L.**, Jánossy A., Kitagawa A., Production of multiply charged fullerene and carbon cluster beams by a 14.5 GHz ECR ion source, 9th International Conference on Ion Sources (ICIS'01), Oakland, California, USA, September 3-7, 2001.
9. **Kenéz L.**, Biri S., Karácsony J., Valek A., Nakagawa T., Stiebing K. E., Mironov V., Diagnostic research of plasmas generated by a 14.5 GHz ECR ion source using Langmuir-probe, 9th International Conference on Ion Sources (ICIS'01), Oakland, California, USA, September 3-7, 2001.

10. Mironov V., Stiebing K. E., Hohn O., Schmidt L., Schmidt-Böcking H., Runkel S., Schempp A., Shirkov G., Biri S., **Kenéz L.**, Influence of the biased electrode on the plasma potential in ECRIS, 9th International Conference on Ion Sources (ICIS'01), Oakland, California, USA, September 3-7, 2001.
11. Biri S. , Valek A. , **Kenéz L.** , Jánossy A. , Kitagawa A., Sulik B., Fullerenes studies by the ATOMKI-ECRIS, 4th Annual LEIF (Low Energy Ion Facilities, a European Network) Meeting. Belfast, Northern Ireland, June 28 - July 1, 2003.
12. S. Biri, A. Valek, E. Takács, B. Radics, J. Pálinkás, J. Karácsony, **L. Kenéz**, A. Kitagawa and M. Muramatsu, Developments and Plasma Studies at the ATOMKI-ECRIS, Proceedings of the 16th International Workshop on ECR Ion Sources, ECRIS '04, LBNL, Berkeley, USA, 26-30 September, 2004, 67-70.
13. Toshiyuki Hattori, Taku Ito, Noriyosu Hayashizaki, Takuya Ishibashi, Liang Lu, Jun Tamura, Rui Kobori, Masahiro Okamura, E.Osváth, D.Bíro, D.Holland, **L. Kenéz**, C6+ Ion Hybrid Single Cavity Linac With Direct Plasma Injection Scheme For Cancer Therapy Proceedings Of Linac08, Victoria, Canada, Page 211, 2008
14. N. Kutasi, **L. Kenéz**, E. Filep, A. Kelemen, Sz. Mátyási – Pulsed power supply design for DC and Active Screen Plasma Nitriding, - MACRO2013 International Conference Conference on Recent Achievements in Mechatronics, Automation, Computer Science and Robotics Sapientia University, Tg. Mures 2013, pp. 115-122, ISSN 2247 0948.
15. N. Kutasi, **L. Kenéz**, E. Filep, I. Szöllösi, L. Jakab Farkas, The design of an automated plasma diagnostic system – from measurement to signal processing, MACRO2015 International Conference Conference on Recent Achievements in Mechatronics, Automation, Computer Science and Robotics Sapientia University, Tg. Mures 2015
16. Kutasi N., Filep E., **Kenéz L.**: A Sapientia EMTE marosvásárhelyi Karának plazmareaktora, Magyar Tudomány Napja Erdélyben, Oknyomozó tudomány, Erdélyi Természettudományi Konferencia, Cluj-Napoca, 2016
17. N. D. Kutasi and L. Kenéz, "Modelling for Control the Hollow Cathode Anodic Plasma Nitriding," 2019 27th Mediterranean Conference on Control and Automation (MED), Akko, Israel, 2019, pp. 262-266. doi: 10.1109/MED.2019.8798575

D. Traduceri de cărți, capitole de cărți, alte lucrări științifice

E. Editare, coordonare de volume

F. Inventii.

G. Contracte de cercetare (menționați calitatea de director sau membru)

Nr.crt	Denumirea Temei	Beneficiar	An	Valoare
1	Cercetări de fizica plasmei pe surse de ioni de rezonanță electronică ciclotronică	OTKA (Ungaria)	1998	36000 Euro
2	Cercetări de fizica plasmei cu ioni grei cu grad de ionizare ridicat ai surselor de ioni de rezonanță electronică ciclotronică	OTKA (Ungaria)	2003	13220 Euro
3	Reactorul de plasmă lineară și non-izotermică	Institutul programelor de cercetare (IPC)	2004	8949 RON
4	Reactorul de plasmă lineară și non-izotermică	Institutul programelor de cercetare (IPC)	2005	10040 RON
5	Reactorul de plasmă lineară și non-izotermică	Institutul programelor de cercetare (IPC)	2006	9942 RON

6	Cercetări de diagnostică locală a plasmei în reactorul de plasmă lineară și non-izotermică	Institutul programelor de cercetare (IPC)	2007	8000 RON
7	Cercetări de diagnostică locală a plasmei în reactorul de plasmă lineară și non-izotermică	Institutul programelor de cercetare (IPC)	2008	8700 RON
8	Cercetări de fizica plasmei folosind sonde tip Langmuir și cercetări privind reglarea Fuzzy ai temperaturii piesei tratate termic precum și creșterii stratului de penetrare în plasmă nitrurare cu ecran activ.	Institutul programelor de cercetare (IPC)	2011	41000 RON
9	Transport de căldură și de material și controlul temperaturii pe bază de model în reactorul liniar non-izoterm de plasmă în cazul tratamentelor termice de tip DCPN și ASPN	Institutul programelor de cercetare (IPC)	2015	16000 RON
10.	Controlul procesului de nitrurare în plasma cu catod cilindric, cercetări privind diagnostizarea locală a plasmei în timpul nitrurării, studierea rolului atomilor de fier provenite în urma pulverizării catodului, în mecanismul de nitrurare anodic folosind	Institutul programelor de cercetare (IPC)	2017	17000 RON

H. Creația artistică -

I. Premii, distincții.

J. Citări

1. Taki G.S., Sarma P.R., Drentje A.G., et al., Observation of burst frequency in extracted ECR ion current, High Energy Physics and Nuclear Physics-Chinese Edition, Vol. 31., Suppl. 1, pp 170-173, 2007
2. Taki G.S., Sarma P.R., Chakraborty D.K., et al., Abrupt variation in ion current with biased disk voltage in the electron cyclotron resonance ion source, Review of Scientific Instruments, Vol. 77, Iss. 3, 2006
3. Tarvainen O., Suominen P., Ropponen T., et al., Effect of the gas mixing technique on the plasma potential and emittance of the JYFL 14 GHz electron cyclotron resonance ion source, Review of Scientific Instrument, Vol. 76, Iss. 9, 2005
4. Tarvainen O., Suominen P., Koivisto H., A new plasma potential measurement instrument for plasma ion sources, Review of Scientific Instrument, Vol. 75., Iss. 10, pp 3138-3145, 2004
5. Rashid M.H., Bhandari R.K., Sufficient cusp field generated by permanent magnet for compact ECR ion source, Indian Journal of Physics and Proceedings of the Indian Association for the Cultivation of Science, Vol. 78, Iss. 9, pp 955-959, 2004
6. Drentje A.G., Techniques and mechanisms applied in electron cyclotron resonance sources for highly charged ions, Review of Scientific Instruments, Vol. 74, Iss. 5, pp 2631-2645, 2003
7. Schachter L., Dobrescu S., Stiebing K.E., Role of a metal-dielectric structure for the high-charge-state-ion production in electron cyclotron resonance ion sources, Review of Scientific Instruments, Vol. 73, Iss. 12, pp 4172-4175, 2002
8. Drentje A.G., Wolters U., Nadzeyka A., et al., Simon short circuit effect in ECRIS, Review of Scientific Instruments, Vol. 73, Iss. 2, pp 516-520, 2002
9. Mironov V., Stiebing K.E., On a simulation of ion confinement in ECRIS plasmas, Review of Scientific Instruments, Vol. 73, Iss. 2, pp 626-628, 2002
10. Becker R., Collision physics in ECR and EBIS/T, Review of Scientific Instruments, Vol. 73, Iss. 2, 693-695, 2002
11. Imanaka M. et al., Effect of a biased electrode on operation of electron cyclotron resonance ion source using liquid He free superconduction solenoid coils, Review of Scientific Instruments, Vol.73, Iss. 2, pp 592-594, 2002
12. Drentje A. G., KVI-1598 Report, Groningen 0 (2003)1.
13. Tarvainen O., PhD Thesis, Jyväskylä University, Finland, 0 (2005)1.
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15. Schachter L., Dobrescu S., Stiebing K.E., Role of a metal-dielectric structure for the high-charge-state-ion production in electron cyclotron resonance ion sources, Review of Scientific Instruments, Vol. 73, Iss. 12., pp 4172-4175, 2002
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17. Biri S., Fekete E., Ivan I., et al., Transformation of the ATOMKI-ECRIS into a plasma device, High Energy Physics and Nuclear Physics-Chinese Edition, Vol. 31, Suppl. 1, pp 156-158, 2007
18. You H.J., Chung K.S., Meyer F.W., Measurement of the plasma potential in the edge plasma of the ORNL CAPRICE ECR ion source, Journal of the Korean Physical Society, Vol. 49, Iss. 4, pp 1470-1476, 2006
19. Takacs E., Radics B., Szabo C.I., et al., Title: Spatially resolved X-ray spectroscopy of an ECR plasma - indication for evaporative cooling, Nuclear Instruments & Methods in Physics Research Section B-Beam Interactions with Materials and Atoms, Vol. 235, pp 120-125, 2005
20. Kato Y., Kubo T., Muramatsu M., Tanaka K., Kitagawa A., Yoshida Y., Asaji T., Sato F., Iida T., Multicharged iron ions produced by using induction heating vapor source, Review of Scientific Instruments, Vol. 79, Iss. 2, 2008
21. Kaneko T., Abe S., Ishida H., Hatakeyama R., An electron cyclotron resonance plasma configuration for increasing the efficiency in the yield of nitrogen endohedral fullerenes, Physics of Plasmas, Vol. 14, Iss. 11, 2007
22. Wethekam S., Winter H., Excitation of fullerene ions during grazing scattering from a metal surface, Physical Review A, Vol. 76, Iss. 3, 2007
23. Biri S., Fekete E., Ivan I., Gal I., Transformation of the ATOMKI-ECRIS into a plasma device, High Energy Physics and Nuclear Physics-Chinese Edition, Vol. 31, Suppl. 1, pp 156-158, 2007
24. Fekete E., Biri S., Ivan I., Investigation of iron-fullerene mixture plasmas in ECR discharge, Fullerenes Nanotubes and Carbon Nanostructures, Vol. 15, Iss. 4, pp 249-256, 2007
25. Biri S., Fekete E., Kitagawa A., et al. Fullerenes in electron cyclotron resonance ion sources, Review of Scientific Instruments, Vol. 77, Iss. 3, 2006
26. Kato Y., Tomida M., Kubo T., et al., Production of multicharged iron ions with inductively heated vapor source, Review of Scientific Instruments, Vol. 77, Iss. 3, 2006
27. Cao B.P., Peres T., Lifshitz C., et al., Kinetic energy release of C-70(+) and its endohedral cation N@C-70(+), Activation energy for N extrusion, Chemistry-A European Journal, Vol. 12, Iss. 8, pp 2213-2221, 2006
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31. Biri S., Valek A., Suta T., et al., Imaging of ECR plasmas with a pinhole X-ray camera, Review of Scientific Instruments, Vol. 75, Iss. 5, pp 1420-1422, 2004
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40. V. Mironov, S. Runkel, K. E. Stiebing, et. al., Biased-electrode operation of electron cyclotron resonance ion sources, Review of Scientific Instruments, Vol. 72, Iss. 10, pp 3826-3828, 2001
41. A. G. Drentje, Techniques and mechanisms applied in electron cyclotron resonance sources for highly charged ions, Review of Scientific Instruments, Vol. 4, Iss. 5., pp 2631-2645, 2003
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45. G. S. Taki, P. R. Sarma, D. K. Chakraborty, et. al., Abrupt variation in ion current with biased disk voltage in the electron cyclotron resonance ion source, Review of Scientific Instruments, Vol. 77, Iss. 3, 2006

46. L. Schachter, S. Dobrescu, K. E. Stiebing, et al., The influence of ambipolarity on plasma confinement and on the performance of electron cyclotron resonance ion sources, *Review of Scientific Instruments*, Vol. 79, Iss. 2, pp 329-333, 2008
47. Muramatsu M., 16th International Workshop on ECR Ion Sources. ECRIS 04. Berkeley, USA, 26-30 Sept., 2004. Proceedings. Ed.: Leitner, M. New York, AIP (AIP Conference Proceedings 749) 0 (2005)183.
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49. Drentje A. G., KVI-1598 Report, Groningen 0 (2003)1.
50. Tarvainen O., PhD Thesis. Jyväskylä University 0 (2005)1.
51. Hitz D. et al., *Advances in Imaging and Electron Physics* 144 (2006)1.
52. M. Cavenago, A. Galatá, T. Kulevoy, and S. Petrenko, Bias voltage and corrosion effects in rf ovens in electron cyclotron resonance ion source, *Review Scientific Instruments*, Vol. 77, Iss. 3, 2006
53. Y. Higurashi, T. Nakagawa, M. Kidera, et. al., Effect of the plasma electrode position and shape on the beam intensity of the highly charged ions from RIKEN 18 GHz electron-cyclotron-resonance ion source, *Review Scientific Instruments*, Vol. 77, Iss. 3, 2006
54. Tarvainen O., PhD Thesis. Jyväskylä University 0 (2005)1.

Data, 15.10.2019.