

Works list

Structured as given in O.M. 5691/13.10.2011, Annex 1, Article 15

a) List of works stipulated at Article 12, §(1), Letter h) - included in full in the dossier

- h1. Lorentz JÄNTSCHI, Sorana D. BOLBOACĂ, 2007. Results from the use of molecular descriptors family on structure property/activity relationships. International Journal of Molecular Sciences 8(3):189-203. URL: <http://lori.academicdirect.ro/works/?f=121>
- h2. Lorentz JÄNTSCHI, Sorana-Daniela BOLBOACĂ, 2007. Modeling the Octanol-Water Partition Coefficient of Substituted Phenols by the Use of Structure Information 107(8):1736-1744. <http://lori.academicdirect.ro/works/?f=127>
- h3. Lorentz JÄNTSCHI, Sorana D. BOLBOACĂ, Mircea V. DIUDEA, 2007. Chromatographic Retention Times of Polychlorinated Biphenyls: from Structural Information to Property Characterization. International Journal of Molecular Sciences 8(11):1125-1157. <http://lori.academicdirect.ro/works/?f=166>
- h4. Lorentz JÄNTSCHI, Sorana D. BOLBOACĂ, 2008. A Structural Modelling Study on Marine Sediments Toxicity. Marine Drugs 6(2):372-388. <http://lori.academicdirect.ro/works/?f=185>
- h5. Monica M. MARTA, Sorana D. BOLBOACĂ, Lorentz JÄNTSCHI, 2009. Self Directed Training in an Evidence-Based Medicine Experiment. In: Human-Computer Systems Interaction (Eds: Zdzislaw S. Hippe, Juliusz L. Kulikowski), Springer, ISBN 978-3-642-03201-1, e-ISBN 978-3-642-03202-8, ISSN 1867-5662, DOI 10.1007/978-3-642-03202-8, Berlin, Germany, p. 193-206, 2009. <http://lori.academicdirect.ro/works/?f=206>
- h6. Lorentz JÄNTSCHI, Mircea V. DIUDEA, 2009. Subgraphs of Pair Vertices. Journal of Mathematical Chemistry 45(2):364-371. <http://lori.academicdirect.ro/works/?f=211>
- h7. Lorentz JÄNTSCHI, Sorana D. BOLBOACĂ, Radu E. SESTRĂȘ, 2010. Meta-heuristics on quantitative structure-activity relationships: study on polychlorinated biphenyls. Journal of Molecular Modeling 16(2):377-386. <http://lori.academicdirect.ro/works/?f=233>
- h8. Lorentz JÄNTSCHI, Sorana D. BOLBOACĂ, 2010. Exact Probabilities on Confidence Limits for Binomial Samples: Applied to the Difference between Two Proportions. TheScientificWorldJOURNAL 10(5):865-878. <http://lori.academicdirect.ro/works/?f=238>
- h9. Lorentz JÄNTSCHI, Sorana D. BOLBOACĂ, Radu E. SESTRĂȘ, 2010. A Study of Genetic Algorithm Evolution on the Lipophilicity of Polychlorinated Biphenyls. Chemistry & Biodiversity 7(8):1978-1989. <http://lori.academicdirect.ro/works/?f=239>
- h10. Sorana D. BOLBOACĂ, Lorentz JÄNTSCHI, 2011. Predictivity Approach for Quantitative Structure-Property Models. Application for Blood-Brain Barrier Permeation of Diverse Drug-Like Compounds. <http://dx.doi.org/10.3390/ijms12074348>

b) Doctoral theses

- PhD1. Lorentz JÄNTSCHI, 2000 (January 21). Prediction of Physical, Chemical and Biological Properties using Mathematical Descriptors (in Romanian). PhD Thesis in Chemistry (Organic Chemistry). Scientific advisor: Prof. Dr. Mircea V. DIUDEA. Babeș-Bolyai University (Faculty of Chemistry and Chemical Engineering).
- PhD2. Lorentz JÄNTSCHI, 2010 (July 22). Genetic Algorithms and their Application (in Romanian). PhD Thesis in Horticulture. Scientific advisor: Prof. Dr. Radu E. SESTRĂȘ. University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca (Faculty of Horticulture).

c) Intellectual property rights

Not available

d) Books and book chapters

- b1. Sorana D. BOLBOACĂ, Lorentz JÄNTSCHI, 2010. From molecular structure to molecular design through the Molecular Descriptors Family Methodology. In: QSPR-QSAR Studies on Desired Properties for Drug Design (Ed.: Eduardo A. CASTRO). Research Signpost, Transworld Research Network, 978-81-308-0404-0, Kerala, India, p. 117-166.
- b2. Lorentz JÄNTSCHI, Horea I. NAȘCU, 2009. Analytical and Instrumental Chemistry (in Romanian), AcademicPres, ISBN 978-973-744-191-1, Cluj-Napoca, Romania, 250 p.
- b3. Monica M. MARTA, Sorana D. BOLBOACĂ, Lorentz JÄNTSCHI, 2009. Self Directed Training in an Evidence-Based Medicine Experiment. In: Human-Computer Systems Interaction (Eds: Zdzislaw S. Hippe, Juliusz L. Kulikowski), Springer, ISBN 978-3-642-03201-1, e-ISBN 978-3-642-03202-8, ISSN 1867-5662, DOI 10.1007/978-3-642-03202-8, Berlin, Germany, p. 193-206.
- b4. Sorana D. BOLBOACĂ, Lorentz JÄNTSCHI, 2008. Assessment of Confidence Intervals used in Medical Studies. AcademicPres & AcademicDirect, ISBN 978-973-744-107-2 & ISBN 978-973-86211-2-1, Cluj-Napoca & www, Romania & Internet, p. 234 (+p. 10 intro).
- b5. Lorentz JÄNTSCHI, 2007. Characteristic and Counting Polynomials of Nonane Isomers. AcademicDirect, ISBN 973-86211-3-5 & ISBN 980-973-86211-3-8, www, Internet, 101 p.
- b6. Lorentz JÄNTSCHI, Mădălina Ana VĂLEANU, Sorana D. BOLBOACĂ, 2006. Rapid Programming of Relational Databases Applications (in Romanian), AcademicDirect & AcademicPres, ISBN: 973-86211-5-1 & 978-973-86211-5-2 (AcademicDirect) && ISBN 973-744-044-7 & 978-973-744-044-0 (AcademicPres), www & Cluj-Napoca, Internet & Romania, 233 p.
- b7. Monica ȘTEFU, Daniela BUTYKA, Mircea V. DIUDEA, Lorentz JÄNTSCHI, Bazil PÂRV, 2005. Algorithms for Basic Operations on Maps. In: Nanostructures: Novel Architecture (Mircea V. DIUDEA ed.), Nova Science, ISBN 1-59454-499-9, Huntington, New York, USA, p. 243-267, CAN 144:495628.
- b8. Lorentz JÄNTSCHI, 2005. Microbiology and Toxicology and Phytochemistry Studies (in Romanian), AcademicDirect, ISBN 973-86211-8-6, www, Internet, 75 p.
- b9. Mihaela L. UNGUREȘAN, Lorentz JÄNTSCHI, Delia M. GLIGOR, 2004. Educational Applications of Chemistry on Computer (in Romanian), Mediamira, ISBN 973-713-031-6, Cluj-Napoca, Romania, 250 p.
- b10. Lorentz JÄNTSCHI, Sorana Daniela BOLBOACĂ, 2003. Applied Chemical and Instrumental Analysis (in Romanian), AcademicDirect, ISBN 973-86211-6-X, 60 p.
- b11. Lorentz JÄNTSCHI, 2003. Metrology and Monitoring of Environment (in Romanian). Amici, ISBN 973-85727-2-X, Cluj-Napoca, Romania, 148 p.
- b12. Horea I. NAȘCU, Liana T. MARTA, Elena M. PICĂ, Violeta POPESCU, Mihaela L. UNGUREȘAN, Lorentz JÄNTSCHI, 2002. Chemistry - Practical Works Guide (in Romanian), UTPres, ISBN 973-8335-07-8, Cluj-Napoca, Romania, 159 p.
- b13. Mircea V. DIUDEA, Ivan GUTMAN, Lorentz JÄNTSCHI, 2001 (1st edition), 2002 (2nd edition). Molecular Topology. Nova Science, ISBN 1-56072-957-0 (1st edition), ISBN 1-56072-859-0 (2nd edition), Huntington, USA, 332 p.
- b14. Lorentz JÄNTSCHI, Mihaela L. UNGUREȘAN, 2001. Special Chapters of Chemistry for Automatics (in Romanian), UTPres, ISBN 973-8335-15-9, Cluj-Napoca, Romania, 202 p.
- b15. Lorentz JÄNTSCHI, Mihaela L. UNGUREȘAN, 2001. Physical Chemistry. Molecular Kinetic and Dynamic (in Romanian), Mediamira, ISBN 973-9358-71-3, Cluj-Napoca, Romania, 159 p.
- b16. Lorentz JÄNTSCHI, Romeo CHIRA, 2000. Book of Practical Works for Chemistry and Biochemistry of Pollutants (in Romanian), UTPres, ISBN 973-9471-46-3, Cluj-Napoca, Romania, 113 p.

e) 'In extenso' articles/studies published in journals from the main international scientific flux

- a1. Costel SÂRBU, Lorentz JÄNTSCHI, 1998. Statistic Validation and Evaluation of Analytical Methods by Comparative Studies. I. Validation of Analytical Methods using Regression Analysis (in Romanian), Revista de Chimie 49(1), p. 19-24. **CAN: 128:225190. IF2010:0.693. WOS:000072186000005**
- a2. Claudia CIMPOIU, Lorentz JÄNTSCHI, Teodor HODIŞAN, 1998. A New Method for Mobile Phase Optimization in High-Performance Thin-Layer Chromatography (HPTLC), Journal of Planar Chromatography - Modern TLC 11(May/June), p. 191-194. **CAN: 129:269726. IF2010:1.247. WOS:000075901200003**
- a3. Claudia CIMPOIU, Lorentz JÄNTSCHI, Teodor HODIŞAN, 1999. A New Mathematical Model for the Optimization of the Mobile Phase Composition in HPTLC and the Comparision with Other Models, Journal of Liquid Chromatography and Related Technologies 22(10), p. 1429-1441. **CAN 131:63565. IF2010:0.953. WOS:000080569400002**
- a4. Horea NASCU, Lorentz JÄNTSCHI, Teodor HODIŞAN, Claudia CIMPOIU, Gabriela CÂMPAN, 1999. Some Applications of Statistics in Analytical Chemistry, Reviews in Analytical Chemistry XVIII(6), p. 409-456. **CAN 132:287941. IF2010:0.692. WOS:000085684300003**
- a5. Lorentz JÄNTSCHI, Simona MUREŞAN, Mircea V. DIUDEA, 2000. Modeling Molar Refraction and Chromatographic Retention by Szeged Indices, Studia Universitatis Babes-Bolyai, Chemia XLV(1-2), p. 313-318. **CAN 136:199924. IF2010: 0.231. WOS:-**
- a6. Lorentz JÄNTSCHI, Gabriel KATONA, Mircea V. DIUDEA, 2000. Modeling Molecular Properties by Cluj Indices, Commun. Math. Comput. Chem. (MATCH) 41(0 then 1), p. 151-188. **Zbl 1033.92039, CAN 133:150111. IF2010:3.291. WOS:000088463400013**
- a7. Oleg URSU, Marinela DON, Gabriel KATONA, Lorentz JÄNTSCHI, Mircea V. DIUDEA, 2004. Qsar Study on Dipeptide Ace Inhibitors, Carpathian Journal of Mathematics 20(2), p. 275-280. **Zbl 1106.92321. IF2010:0.900. WOS:-**
- a8. Lorentz JÄNTSCHI, Sorana BOLBOACĂ, 2007. Results from the Use of Molecular Descriptors Family on Structure Property/Activity Relationships, International Journal of Molecular Sciences 8(3), p. 189-203. **CAN 147:317671. IF2010:2.279. WOS:000245396500002**
- a9. Lorentz JÄNTSCHI, Sorana-Daniela BOLBOACĂ, 2007. Modeling the Octanol-Water Partition Coefficient of Substituted Phenols by the Use of Structure Information, International Journal of Quantum Chemistry 107(8), p. 1736-1744. **CAN 147:103053. IF2010:1.302. WOS:000245839300008**
- a10. Sorana D. BOLBOACĂ, Lorentz JÄNTSCHI, 2007. How Good the Characteristic Polynomial Can Be for Correlations?, International Journal of Molecular Sciences 8(4), p. 335-345. **CAN 147:276982. IF2010: 2.279. WOS:000246189600006**
- a11. Lorentz JÄNTSCHI, Sorin HODIŞAN, Claudia CIMPOIU, Anamaria HOSU, Eugen DARVASI, Teodor HODIŞAN, 2007. Modeling of thin-layer chromatographic separation of androstane isomers, JPC - Journal of Planar Chromatography - Modern TLC 20(2), p. 91-94. **CAN 148:323259. IF2010:1.247. WOS:000246165300001**
- a12. Sorana D. BOLBOACĂ, Lorentz JÄNTSCHI, 2007. Mapping Cigarettes Similarities using Cluster Analysis Methods, International Journal of Environmental Research and Public Health 4(3), p. 233-242. **PMID: 17911663. CAN 148:303722. IF2010:0.0(New entrant). WOS:-**
- a13. Lorentz JÄNTSCHI, Sorana D. BOLBOACĂ, Mircea V. DIUDEA, 2007. Chromatographic Retention Times of Polychlorinated Biphenyls: from Structural Information to Property Characterization, International Journal of Molecular Sciences 8(11), p. 1125-1157. **CAS-AN 2008:423655. IF2010:2.279. WOS:000251238700005**
- a14. Sorana D. BOLBOACĂ, Lorentz JÄNTSCHI, 2007. Design of Experiments: Useful Orthogonal Arrays for Number of Experiments from 4 to 16, Entropy 9(4), p. 198-232. **Zbl 1135.62359. IF2010:1.109. WOS:-**
- a15. Ioan SUCIU, Constantin COSMA, Mihai TODICĂ, Sorana D. BOLBOACĂ, Lorentz JÄNTSCHI, 2008. Analysis of Soil Heavy Metal Pollution and Pattern in Central Transylvania, International Journal of Molecular Sciences 9(4), p. 434-453.

- PMID:19325760. IF2010:2.279. WOS:000255516100001**
- a16. Mugur C. BĂLAN, Mihai DAMIAN, Lorentz JĂNTSCHI, 2008. Preliminary Results on Design and Implementation of a Solar Radiation Monitoring System, *Sensors* 8(2), p. 963-978. **IF2010:1.774. WOS:000253779100023**
- a17. Sorana D. BOLBOACĂ, Lorentz JĂNTSCHI, 2008. Structure-activity relationships of taxoids: a molecular descriptors family approach, *Archives of Medical Science* 4(1), p. 7-15. **IF2010:1.199. WOS:000256847700002**
- a18. Constantin COSMA, Ioan SUCIU, Lorentz JĂNTSCHI, Sorana D. BOLBOACĂ, 2008. Ion-Molecule Reactions and Chemical Composition of Emanated Gases from Herculane Spa Geothermal Sources, *International Journal of Molecular Sciences* 9(6), p. 1024-1033. **PMID:19325844. IF2010:2.279. WOS:000257248700008**
- a19. Lorentz JĂNTSCHI, Sorana D. BOLBOACĂ, 2008. A Structural Modelling Study on Marine Sediments Toxicity, *Marine Drugs* 6(2), p. 372-388. **PMID:18728732. IF2010:3.471. WOS:000257202100014**
- a20. Sorana D. BOLBOACĂ, Lorentz JĂNTSCHI, 2008. Modelling the property of compounds from structure: statistical methods for models validation, *Environmental Chemistry Letters* 6(3), p. 175-181. **IF2010:2.051. WOS:000257340400006**
- a21. Lorentz JĂNTSCHI, Violeta POPESCU, Sorana D. BOLBOACĂ, 2008. Toxicity caused by para-substituted phenols on *Tetrahymena pyriformis*: The structure-activity relationships, *Electronic Journal of Biotechnology* 11(3), fulltext 9. **IF2010:0.865. WOS:000262927200009**
- a22. Sorana D. BOLBOACĂ, Elena M. PICĂ, Claudia V. CIMPOIU, Lorentz JĂNTSCHI, 2008. Statistical Assessment of Solvent Mixtures Models Used for Separation of Biological Active Compounds, *Molecules* 13(8), p. 1617-1639. **PMID:18794776. IF2010:1.988. WOS:000258756300007**
- a23. Sorana D. BOLBOACĂ, Lorentz JĂNTSCHI, A structural informatics study on collagen, *Chemical Biology & Drug Design* 71(2), p. 173-179, 2008. **PMID:18221312. IF2010:2.527. WOS:000253456500009**
- a24. Lorentz JĂNTSCHI, Sorana D. BOLBOACĂ, 2008. Informational Entropy of b-ary Trees After a Vertex Cut, *Entropy* 10(4), p. 576-588. **IF2010:1.109. WOS:000264561200010**
- a25. Sorana D. BOLBOACĂ, Lorentz JĂNTSCHI, 2008. Modelling Analysis of Amino Acids Hydrophobicity, *MATCH-communications in mathematical and in computer chemistry* 60(3), p. 1021-1032. **Zbl 1192.92016. IF2010:3.291. WOS:000262121000026**
- a26. Lorentz JĂNTSCHI, Mircea V. DIUDEA, 2009. Subgraphs of Pair Vertices, *Journal of Mathematical Chemistry* 45(2), p. 364-371. **Zbl 1171.05433. IF2010:1.259. WOS:000261970800010**
- a27. Lorentz JĂNTSCHI, Sorana D. BOLBOACĂ, Cristina M. FURDUI, 2009. Characteristic and Counting Polynomials: Modelling Nonane Isomers Properties, *Molecular Simulation* 35(3), p. 220-227. **IF2010:1.215. WOS:000263200500005**
- a28. Lorentz JĂNTSCHI, Sorana D. BOLBOACĂ, Radu E. SESTRĂȘ, 2009. Hard Problems in Gene Sequence Analysis: Classical Approaches and Suitability of Genetic Algorithms, *Biotechnology & Biotechnological Equipment* 23(2), p. 1275-1280. **IF2010:0.503. WOS:000266375300023**
- a29. Radu E. SESTRĂȘ, Doru C. PAMFIL, Adriana F. SESTRĂȘ, Lorentz JĂNTSCHI, Sorana D. BOLBOACĂ, Cătălina I. DAN, 2009. Inheritance of Vigour Tree in F1 Apple Interspecific Hybrids, *Notulae Botanicae Horti Agrobotanici Cluj-Napoca* 37(2), p. 70-73. **IF2010:0.463. WOS:000267786300011**
- a30. Sorana D. BOLBOACĂ, Lorentz JĂNTSCHI, 2009. Comparison of Quantitative Structure-Activity Relationship Model Performances on Carboquinone Derivatives, *TheScientificWorldJOURNAL* 9(10), p. 1148-1166. **PMID: 19838601. IF2010:1.524. WOS:000273679300040**
- a31. Carmen E. STOENOIU, Sorana D. BOLBOACĂ, Ioan ABRUDAN, Lorentz JĂNTSCHI, 2009. Students perception of degree of academic community involvement in academic life, *Actual Problems of Economic* 11(101), p. 276-283, 2009. **IF2010:0.003.**

- WOS:000272531200032**
- a32. Lorentz JÄNTSCHI, Sorana D. BOLBOACĂ, Radu E. SESTRĂȘ, 2010. Meta-heuristics on quantitative structure-activity relationships: study on polychlorinated biphenyls, *Journal of Molecular Modeling* 16(2), p. 377-386. **PMID:19609578. IF2010:1.871. WOS:000273668800021**
- a33. Lorentz JÄNTSCHI, Sorana D. BOLBOACĂ, Radu E. SESTRĂȘ, 2010. Classical Approaches of Genetic Algorithms and their Suitability, *Asian Journal of Chemistry* 22(3), p. 2275-2284. **IF2010:0.247. WOS:000274581700083**
- a34. Carmen E. STOENOIU, Sorana D. BOLBOACĂ, Ioan ABRUDAN, Lorentz JÄNTSCHI, The Role of the Academic Community in Defining the Professional Route: Students' Perception, *Actual Problems of Economics* 103(1), p. 277-285, 2010. **IF2010:0.003. WOS:000274569500031**
- a35. Ticușor CIOBOTARU, Daniel FRUNZETI, Lorentz JÄNTSCHI, 2010. Method for Analyzing Epicyclic Gearboxes, *International Journal of Automotive Technology* 11(2), p. 167-172. **IF2010:0.511. WOS:000276220900004**
- a36. Ticușor CIOBOTARU, Daniel FRUNZETI, Ioan RUS, Lorentz JÄNTSCHI, 2010. Method for analysing multi-path power flow transmissions, *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture* 224(9), p. 1447-1454. **IF2010:0.699. WOS:000282835000012**
- a37. Lorentz JÄNTSCHI, Sorana D. BOLBOACĂ, 2010. Exact Probabilities and Confidence Limits for Binomial Samples: Applied to the Difference between Two Proportions, *TheScientificWorldJOURNAL* 10(5), p. 865-878. **IF2010:1.524. WOS:000277972000001**
- a38. Lorentz JÄNTSCHI, Sorana D. BOLBOACĂ, Radu E. SESTRĂȘ, 2010. A Study of Genetic Algorithm Evolution on the Lipophilicity of Polychlorinated Biphenyls, *Chemistry & Biodiversity* 7(8), p. 1978-1989. **PMID:20730961. IF2010:1.586. WOS:000281489400009**
- a39. Radu E. SESTRĂȘ, Catalina DAN, Doru PAMFIL, Adriana F. SESTRĂȘ, Lorentz JÄNTSCHI, Sorana D. BOLBOACĂ, 2010. The Variability of Juvenile Period, Fruits Size and Response to Diseases Attack on F-1 Interspecific Apple Hybrids and the Efficiency of Selection, *Notulae Botanicae Horti Agrobotanici Cluj-Napoca* 38(1), p. 234-240. **IF2010:0.463. WOS:000279527800041**
- a40. Mugur C. BĂLAN, Lorentz JÄNTSCHI, Sorana D. BOLBOACĂ, Mihai DAMIAN, 2010. Thermal Solar Collector Behaviour in Romania, *Polish Journal of Environmental Studies* 19(1), p. 231-241. **IF2010:0.543. WOS:000275881500028**
- a41. Lorentz JÄNTSCHI, Mircea V. DIUDEA, 2010. Centrality of some cubic graphs on 16 vertices, *Journal of the Indian Chemical Society* 87(12), p. 1531-1537. **IF2010:0.301. WOS:000287425900007**
- a42. Sorana D. BOLBOACĂ, Lorentz JÄNTSCHI, Mugur C. BĂLAN, Mircea V. DIUDEA, Radu E. SESTRĂȘ, 2010. State of Art in Genetic Algorithms for Agricultural Systems, *Notulae Botanicae Horti Agrobotanici Cluj-Napoca* 38(3), p. 51-63. **IF2010:0.463. WOS:000285236000008**
- a43. Lorentz JÄNTSCHI, Sorana D. BOLBOACĂ, 2010. The relationship between energy calculations and boiling points of n-alkanes, *Studia Universitatis Babeș-Bolyai. Series Chemia* LV(4), p. 61-68. **IF2010:0.231. WOS:000297030500006**
- a44. Sorana D. BOLBOACĂ, Lorentz JÄNTSCHI, 2010. Diagnostic of a qSPR model: aqueous solubility of drug-like compounds, *Studia Universitatis Babeș-Bolyai. Series Chemia* LV(4), p. 69-76. **IF2010:0.231. WOS:000297030500007**
- a45. Anamaria D. HOSU, Claudia V. CIMPOIU, Vasile MICLAUȘ, Lorentz JÄNTSCHI, 2011. Antioxidant content of three different varieties of wine grapes, *Biotechnology and Biotechnological Equipment* 25(1), p. 2217-2221. **IF2010:0.503. WOS:000287943500007**
- a46. Anamaria D. HOSU, Claudia V. CIMPOIU, Nastasia POP, Vasile MICLAUȘ, Sorana D. BOLBOACĂ, Lorentz JÄNTSCHI, 2011. The Analysis of Different Factors Affecting the Red Wines Antioxidant Content, *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*

- 39(1), p. 159-164. **IF2010:0.463. WOS:000292056600023**
- a47. Sorana D. BOLBOACĂ, Lorentz JÄNTSCHI, Radu E. SESTRĂȘ, 2011. Dependence between determination coefficient and number of regressors: a case study on retention times of mycotoxins, *Studia Universitatis Babeș-Bolyai. Series Chemia*, LVI(1), p. 157-166. **IF2010: 0.231. WOS:000295509100014**
- a48. Adriana F. SESTRĂȘ, Doru PAMFIL, Catalina DAN, Sorana D. BOLBOACĂ, Lorentz JÄNTSCHI, Radu E. SESTRĂȘ, 2011. Possibilities to improve apple scab (*Venturia inaequalis* (Cke.) Wint.) and powdery mildew [*Podosphaera leucotricha* (Ell. et Everh.) Salm.] resistance on apple by increasing genetic diversity using potentials of wild species, *Australian Journal of Crop Science*, 5(6), p. 748-755. **IF2010:0.899. WOS:000292571600018**
- a49. Sorana D. BOLBOACĂ, Lorentz JÄNTSCHI, 2011. Predictivity Approach for Quantitative Structure-Property Models. Application for Blood-Brain Barrier Permeation of Diverse Drug-Like Compounds, *International Journal of Molecular Sciences*, 12(7), p. 4348-4364. **PMID:21845082. IF2010:2.279. WOS:000293071700012**

f) 'In extenso' publications appeared in the main international scientific specialty conferences

- c1. Sorana Daniela BOLBOACĂ, Lorentz JÄNTSCHI, 2005. Binomial Distribution Sample Confidence Intervals Estimation for Positive and Negative Likelihood Ratio Medical Key Parameters, *Annual Symposium on Biomedical and Health Informatics [Special Issue: from Foundations to Applications to Policy (Proc. CD, October 22-26, Washington D.C., USA)]*, American Medical Informatics Association, Bethesda, Maryland, USA, ISSN 1559-4076, Washington D.C., USA, #CD, p. 66-70. **PMID: 16779003.**
- c2. Sorana D. BOLBOACĂ, Lorentz JÄNTSCHI, 2007. Modelling the Inhibitory Activity on Carbonic Anhydrase I of Some Substituted Thiadiazole and Thiadiazoline-Disulfonamides: Integration of Structure Information, *Computer-Aided Chemical Engineering*, Elsevier Netherlands & UK, eISSN 1570-7946, Amsterdam, Netherlands, 24(2007), p. 965-970. **CAS-AN 2008:400595.**
- c3. Lorentz JÄNTSCHI, Mugur BĂLAN, Margareta Emilia PODAR, Sorana Daniela BOLBOACĂ, 2007. Thermal Energy Efficiency Analysis for Residential Buildings, *EUROCON*, 2007. The International Conference on "Computer as a Tool", IEEE, ISBN 1-4244-0813-X, DOI 10.1109/EURCON.2007.4400261, Warsaw, Poland, p. 2009 - 2014. **IEEE:07EX1617C. LoC:2006937182. WOS:000257261900038**
- c4. Lorentz JÄNTSCHI, Carmen Elena STOENOIU, Sorana Daniela BOLBOACĂ, 2007. Linking Assessment to e-Learning in Microbiology and Toxicology for Undergraduate Students, *EUROCON*, 2007. The International Conference on "Computer as a Tool", IEEE, ISBN 1-4244-0813-X, DOI 10.1109/EURCON.2007.4400369, Warsaw, Poland, p. 2447-2452. **IEEE:07EX1617C. LoC:2006937182. WOS:000257261900146**
- c5. Mugur BĂLAN, Mihai DAMIAN, Lorentz JÄNTSCHI, Ion ION, 2008. Study concerning the influence of some working conditions, on the heat pumps performances, *Proceedings of the 36-th international symposium on agricultural engineering: Actual Tasks on Agricultural Engineering*, Agricultural Engineering Department, Faculty of Agriculture, University of Zagreb, ISSN 1333-2651, February 11-15, 2008, Opatija, Croatia, p. 535-544. **WOS:000254647700054**
- c6. Mugur BĂLAN, Mihai DAMIAN, Lorentz JÄNTSCHI, 2008. Solar Radiation Monitoring System, *Proceedings of the 36-th international symposium on agricultural engineering: Actual Tasks on Agricultural Engineering*, Agricultural Engineering Department, Faculty of Agriculture, University of Zagreb, ISSN 1333-2651, February 11-15, Opatija, Croatia, p. 507-517. **WOS:000254647700051**
- c7. Lorentz JÄNTSCHI, Sorana D. BOLBOACĂ, Monica M. MARTA, Alexandru LASZLO, 2008. E-Learning and E-Evaluation: A Case Study, *HSI*, 2008. Conference on Human System Interaction, IEEE - IES, Krakow, Poland, #4-KF-003247, Eurographics Technical Report Series, p. 852-857. **IEEE:08EX1995C. LoC:2007905110.**

- c8. Sorana D. BOLBOACĂ, Monica M. MARTA, Lorentz JÄNTSCHI, 2008. Computer-Assisted Instruction in Evidence-Based Medicine: A Pilot Study, HSI, 2008. Conference on Human System Interaction, IEEE - IES, ISBN 1-4244-1543-8, Krakow, Poland, #5-KF-004103. **IEEE:08EX1995C. LoC:2007905110. WOS:000259867600153**
- c9. Mugur C. BĂLAN, Sorana D. BOLBOACĂ, Radu E. SESTRĂȘ, Lorentz JÄNTSCHI, 2009. Experimental Setup to Study the Local Renewable Energy Potential and the Environment Influence on Fruits Growing, Actual Tasks on Agricultural Engineering, Faculty of Agriculture, University of Zagreb, ISSN 1333-2651, Opatija, Croatia, 37, p. 265-271. **WOS:000266236400029**

g) Other works and scientific contributions

- w1. Lorentz JÄNTSCHI, Mihaela Ligia UNGUREȘAN, 2001. Parallel processing of data. C++ Applications, Oradea University Annals, Mathematics Fascicle VIII, p. 105-112, **Zbl:1103.68975**
- w2. Mihaela Ligia UNGUREȘAN, Lorentz JÄNTSCHI, 2003. Modeling and Simulation Izotopic Separation Cascade For ^{15}N , Annals of West University of Timișoara, Series Chemistry 12(3), p. 277-284. **CAN 142:324750**
- w3. Mihaela Ligia UNGUREȘAN, Lorentz JÄNTSCHI, 2003. Modeling of Statistical Kinetics Fast Redox Reactions Data, Annals of West University of Timișoara, Series Chemistry 12(3), p. 285-292. **CAN:141:231359**
- w4. Lorentz JÄNTSCHI, Elena Maria PICĂ, 2003. Numerical Simulation of Concurrent Diffusion and Reaction, Annals of West University of Timișoara, Series Chemistry 12(3), p. 1107-1112. **CAN:142:266989**
- w5. Elena Maria PICĂ, Lorentz JÄNTSCHI, 2003. Case Study of Coals Farcasesti Area. 1. Dependencies Excluding Fixed Carbon Determinations, Annals of West University of Timișoara, Series Chemistry 12(3), p. 1127-1136. **CAN:142:41100**
- w6. Elena Maria PICĂ, Lorentz JÄNTSCHI, 2003. Case Study of Coals Farcasesti Area. 2. Dependencies Including Fixed Carbon Determinations, Annals of West University of Timișoara, Series Chemistry 12(3), p. 1137-1144. **CAN:142:41119**
- w7. Sorana Daniela BOLBOACĂ, Lorentz JÄNTSCHI, Andrei ACHIMAȘ CADARIU, 2005. Relational Information in Medicine: A Challenge, Roentgenologia & Radiologia XLIV(1), p. 22-25. **SCOPUS**
- w8. Sorana Daniela BOLBOACĂ, Lorentz JÄNTSCHI, Carmencita DENEȘ, Andrei ACHIMAȘ CADARIU, 2005. Skeletal Maturity Assessment Client-Server Application, Roentgenologia & Radiologia XLIV(3), p. 183-193. **SCOPUS**
- w9. Delia Maria GLIGOR, Lorentz JÄNTSCHI, 2005. Periodic System of Elements Database and Its Applications, Oradea University Annals, Chemistry Fascicle 12, p. 180-194, **CAN:147:211259**
- w10. Lorentz JÄNTSCHI, Sorin HODIȘAN, Claudia CIMPOIU, Ionela CETERAȘ, 2005. Analysis of Some Steroids by TLC Using Optimum Mobile Phases, Acta Universitatis Cibiniensis, Seria F Chemia 8(1), p. 67-76. **CAN 144:424805**
- w11. Sorana BOLBOACĂ, Lorentz JÄNTSCHI, 2006. Pearson Versus Spearman, Kendall's Tau Correlation Analysis on Structure-Activity Relationships of Biologic Active Compounds, Leonardo Journal of Sciences 5(9), p. 179-200. **CAS-AN:2007:1026159**
- w12. Sorana D. BOLBOACĂ, Lorentz JÄNTSCHI, 2007. Similarities Analysis on Hydroxyapatite-Zirconia Composites, Leonardo Journal of Sciences 11(6), p. 153-164. **CAN:148:61815**
- w13. Lorentz JÄNTSCHI, Sorana D. BOLBOACĂ, 2007. Structure-Activity Relationships on the Molecular Descriptors Family Project at the End, Leonardo Electronic Journal of Practices and Technologies 6(11), p. 163-180. **CAS-AN:2008:532878**
- w14. Lorentz JÄNTSCHI, Carmen E. STOENOIU, Sorana D. BOLBOACĂ, A Formula for Vertex Cuts in b-Trees, International Journal of Pure and Applied Mathematics 47(1), p.

- 17-22. **Zbl 1161.05307**
- w15. Carmen E. STOENOIU, Sorana D. BOLBOACĂ, Lorentz JÄNTSCHI, 2008. Model Formulation & Interpretation - From Experiment to Theory, International Journal of Pure and Applied Mathematics 47(1), p. 9-16. **Zbl 1154.93312**
- w16. Sorana D. BOLBOACĂ, Lorentz JÄNTSCHI, 2008. Optimized Confidence Intervals for Binomial Distributed Samples, International Journal of Pure and Applied Mathematics 47(1), p. 1-8. **Zbl:1156.62318**
- w17. Sorana D. BOLBOACĂ, Lorentz JÄNTSCHI, 2008. Structure-Property Based Model for Alkanes Boiling Points, International Journal of Pure and Applied Mathematics 47(1), p. 23-30. **Zbl 1153.92341**
- w18. Lorentz JÄNTSCHI, Sorana D. BOLBOACĂ, 2009. Entropy due to Fragmentation of Dendrimers, Surveys in Mathematics and its Applications 4, p. 168-176. **Zbl:1193.05156**
- w19. Lorentz JÄNTSCHI, 2009. A genetic algorithm for structure-activity relationships: software implementation. ArXiv manuscript: <http://arxiv.org/abs/0906.4846>. **DBLP**
- w20. Lorentz JÄNTSCHI, Sorana D. BOLBOACĂ, Mugur C. BĂLAN, Radu E. SESTRĂȘ, 2010. Results of Evolution Supervised by Genetic Algorithms. ArXiv manuscript: <http://arxiv.org/abs/1009.0915>. **DBLP**
- w21. Sorana D. BOLBOACĂ, Monica M. MARTA, Lorentz JÄNTSCHI, 2010. Binding Affinity of Triphenyl Acrylonitriles to Estrogen Receptors: Quantitative Structure-Activity Relationships, Folia medica 52(3), p. 37-45. **PMID:21053672**
- w22. Sorana D. BOLBOACĂ, Lorentz JÄNTSCHI, Adriana F. SESTRĂȘ, Radu E. SESTRĂȘ, Doru C. PAMFIL, 2011. Pearson-Fisher Chi-Square Statistic Revisited, Information, 2(3):528-545. **DBLP**