ACTIVITATEA STIINTIFICA:

Cărţi publicate:

1. **Ioana LĂDAR** , „ Mecanică – Statică. Aplicaţii'', U.T. PRESS Cluj – Napoca, 2015

Lucrări ştiinţifice publicate:

1. **Ioana Ladar**, *Energy approach to modal analysis*, The International Colloquium on Stability and Ductility of Steel Structures, 30 May – 01 June 2016, Timisoara, Romania, pp. 859-868.
2. **Ioana Lădar** , Ciprian Cozma, *Distribuţia inerţială a energiei seismice în structurile multi-etajate*, "Construieste cu STEEL"A 14-A CONFERINTA NATIONALA DE CONSTRUCTII METALICE 19-20 Noiembrie 2015, Cluj-Napoca, Romania, www.cm14.ro.
3. **Ioana Lădar** , *Analiza modală a structurilor multietajate. O abordare energetică*, "Construieste cu STEEL"A 14-A CONFERINTA NATIONALA DE CONSTRUCTII METALICE 19-20 Noiembrie 2015, Cluj-Napoca, Romania, www.cm14.ro.
4. **I. LĂDAR**, *Inertial distribution of seismic energy into multi-story frames*, Bulletin of the *Transilvania* University of Braşov, Series I: Engineering Sciences, Vol. x (xx) - 2015
5. **Ioana Lădar,** *Protectia prin amortizare adaugata. O abordare energetica*, Tendinte actuale in ingineria structurilor metalice, Lucrarile celei de-a XIII-a Conferinte Nationale de Constructii Metalice, 21-22 noiembrie 2013, Bucuresti, pp. 157-164.
6. **Ioana Lădar,** Ovidiu Prodan, *Energy Theorems of Seismically Acted Multi – Storey Steel Structures*, Tradition and Innovation – 60 years of Civil Engineering Higher Education in Transilvania, Proceedings of the C60 International Conference, 7-9 November 2013, Cluj – Napoca, Romania, pp. 43-44.
7. **Ioana Ladar**, Delia Suciu, *Seismic performances of multi-storey steel frames with added damping. Numerical and experimental studies*, International Association for Shell and Spatial Structures, IASS 2013 Symposium, Beyond the Limits of Man, 23-27 September 2013, Wroclaw, Poland, pp. 313.
8. **I. Ladar**, O. Prodan & N. Chira, *Effectiveness of seismic protection by added damping: An energy approch*, Research and Applications in Structural Engineering, Mechanics and Computation, Proceedings of the fifth international conference on structural engineering, mechanics and computation, Cape Town, South Africa, 2 – 4 September 2013, p. 127 – 128.
9. O. Prodan, **I. Ladar** & N. Chira, *Multi-story steel structures: Seismic energy modal distribution*, Research and Applications in Structural Engineering, Mechanics and Computation, Proceedings of the fifth international conference on structural engineering, mechanics and computation, Cape Town, South Africa, 2 – 4 September 2013, p. 115 – 116.
10. Delia Suciu, **Ioana Ladar**, *Seismic performances of multi-storey steel frames with added damping. Numerical and experimental studies*, Proceedings of the First International Conference for PhD Students in Civil Engineering, CE-PhD 2012, 4-7 November 2012, Cluj – Napoca, Romania, pp. 124-131.
11. Ovidiu Prodan, **Ioana Ladar**, Nicolae Chira, Pavel Alexa, *Spatial steel structures with passive seismic protection*, 15WCEE 2012: World Conference on Earthquake Engineering, 24-28 September 2012, Lisbon, Portugal.
12. Ovidiu Prodan, **Ioana Ladar**, Pavel Alexa, *Spatiality effects in seismic response of passively protected steel frames*, IASS-APCS 2012: Behaviour of Steel Structures in Seismic Areas, 21-24 May 2012, Seoul, Korea, PP. 1601 - 1609.

13. O. Prodan, **Ioana Ladar**, P. Alexa, *Base Isolation Mitigating Effects*, STESSA 2012: Behaviour of Steel Structures in Seismic Areas, 9-11 January 2012, Santiago, Chile, pp. 797 – 802.
14. Ovidiu Prodan, **Ioana Ladar**, Pavel Alexa, *How Mitigating is Base Isolation*, IABSE - IASS Symposium: Taller, Longer, Lighter, 20-23 September, 2011, pp. 264
15. Ovidiu Prodan, **Ioana Ladar**, Pavel Alexa, *Seismic Mitigation via supplemental viscous damping*, Build with "STEEL", Seminar proceedings, Technical University of Cluj – Napoca, Romania, 20 – 21st of May 2011, pp. 171 – 187.
16. Ovidiu Prodan, **Ioana Ladar**, Pavel Alexa, *Seismic risk mitigation via supplemental viscous damping, Acta Technica Napocensis: Civil Engineering &Architecture Vol. 54 No. 1 (2011)*, pp.13-27.
17. O. Prodan, **I. Lădar**, F. Blaga, P. Alexa, *Seismic mitigation: Base isolators versus viscous dampers*, LIGHTWEIGHT STRUCTURES in CIVIL ENGINEERING International Seminar of IASS Polish Chapters XVI International Seminar LSCE 2010 IASS PC, Warsaw, 3 December, 2010, pp.80 – 85.
18. **I. Lădar**, O. Prodan, F. Blaga, P. Alexa, *A proposed technique for assessing effectiveness of passive protection*, LIGHTWEIGHT STRUCTURES in CIVIL ENGINEERING International Seminar of IASS Polish Chapters XVI International Seminar LSCE 2010 IASS PC, Warsaw, 3 December, 2010, pp.45 – 50.
19. **Ioana LADAR**, Ovidiu PRODAN, Pavel ALEXA, *Structuri metalice cu amortizare suplimentara*, Realizari si preocupari actuale in ingineria constructiilor metalice, Lucrarile celei dea 12-a Conferinte Nationale de constructii Metalice Timisoara 2011, 26 – 27 noiembrie 2010, pp. 167 – 178.
20. Ovidiu PRODAN, **Ioana LADAR**, Pavel ALEXA, *How Protective is Passive Seismic Protection*?, Spatial Structures – Temporary and Permanent, Extended Abstracts International Symposium of the International Association for Shell and Spatial Structures (IASS) Shanghai, China, November 8-12, 2010, pp. 1841 – 1852.
21. BLAGA F., **LĂDAR I.**, PRODAN O., *Behaviour of Semirigid Steel Frames In Seismic Areas*, The National Technical Scientific Conference „Modern technologies for the 3RD Millennium"– ORADEA, (in Romanian), 5 – 6 November 2010, pp. 31 – 38.
22. Prodan, O., **Ladar, I.**, Alexa, P., *Seismic performances of steel structures with supplemental damping. Numerical studies*, 14th EUROPEAN CONFERENCE ON EARTHQUAKE ENGINEERING, Ohrid, Republic of Macedonia, pp. 476;
23. **Ioana Ladar**, O. Prodan, P. Alexa, *Mitigation Assessment of Passive Seismic Protection*, Latest Trends in Engineering Mechanics, Structures, Engineering Geology, 3rd WSEAS International Conference on Engineering Mechanics, Structures, Engineering Geology (EMESEG '10), Corfu Island, Greece, July 22 – 24, 2010, pp. 142 – 147.
24. O. Prodan, **I. Ladar** & P. Alexa, *Effectiveness of passive seismic control of steel structures*, Seventh International Conference On Computer Simulation In Risk Analysis And Hazard Mitigation & Fifth International Conference On Prevention, Assessment, Rehabilitation And Development Of Brownfield Sites, 2010, Algarve, Portugal, pp. PI – 283 – PI – 294.
25. Ovidiu Prodan, **Ioana LĂDAR**, *Steel Structures with Supplemental Damping. Numerical Studies*, Science and Engineering, Volume 18th, 10th Interdisciplinary National Conference" Professor Dorin PAVEL – Romanian Hydro-Energy Founder", Sebeş (in Romanian), 2010, pp. 291 – 298.
26. **Ioana LADAR**, O. Prodan, P. Alexa, *A new approach to assessment of seismic mitigation via passive protection*, 8th International Symposium: "Computational Civil Engineering 2010", Iasi, Romania, May 28, 2010, pp. 35-46.

27. P. Alexa, **I. Lădar**, O. Prodan, *Performantele structurilor metalice cu amortizare suplimentara*, CONSTRUIESTE CU „STEEL" Lucrarile seminarului organizat cu ocazia aniversarii profesorului VASILE PACURAR la 70 de ani, Universitatea Tehnica din Cluj – Napoca, 21 mai 2010, pp. 47-56.
28. MÁTHÉ Aliz, **LĂDAR Ioana,** PRODAN O., *Seismic Performances of Semirigid Steel Frames*, THE NATIONAL TECHNICAL SCIENTIFIC CONFERENCE „Modern technologies for the 3RD Millenium" – ORADEA, 2009, pp. 177 – 186.
29. Al. Cătărig, P. Alexa, L. Kopenetz, Aliz Mathe, **Ioana Lădar**, *GEOMETRICALLY NONLINEAR ANALYSIS OF SEMIRIGID STEEL*, LIGHTWEIGHT STRUCTURES in CIVIL ENGINEERING International Seminar of IASS Polish Chapter XV Jubilee LSCE 2009, Warsaw, 4 – 5 December, 2009, pp.29 – 32.
30. P. Alexa, Al. Cătărig, Aliz Mathe, **Ioana Lădar**, O. Prodan, PERFORMANCE BASED ANALYSIS OF SEMIRIGID STEEL FRAMES, LIGHTWEIGHT STRUCTURES in CIVIL ENGINEERING International Seminar of IASS Polish Chapter XV Jubilee LSCE 2009, Warsaw, 4 – 5 December, 2009, pp.14 – 19.
31. P. ALEXA, **I. LADAR** and O. PRODAN, *SEISMIC PERFORMANCES OF RBS STEEL FRAMES*, International Conference Computational Design in Engineering CODE 2009, November 3 – 6, 2009, Seoul, Korea, pp.161.
32. P. Alexa & **I. Ladar**, *Performance based analysis of RBS steel frames*, PROCEEDINGS OF THE FIFTH INTERNATIONAL STRUCTURAL ENGINEERING AND CONSTRUCTION CONFERENCE (ISEC - 5), LAS VEGAS, USA, 22 – 25 SEPTEMBER 2009, pp.161 - 166.
33. P. Alexa, H. Mociran & **Ioana Ladar**, *Available ductility of RBS steel structures – comparative studies*, BEHAVIOUR OF STEEL STRUCTURES IN SEISMIC AREAS, Philadelphia, Pennsylvania, USA, 16 – 20 august 2009, STESSA – 2009, pp. 487 – 492.
34. P. ALEXA, Aliz MATHE, N. CHIRA, **Ioana LĂDAR**, *Seismic performance evaluation of semirigid steel frames*, Proceedings of the International Conference CONSTRUCTIONS 2008, 9 – 10 May 2008, Cluj – Napoca, Romania, pp. 19 – 26.
35. P. ALEXA, N. CHIRA, Aliz MATHE, **Ioana LĂDAR**, P*erformance based seismic analysis of steel frames*, Proceedings of the International Conference CONSTRUCTIONS 2008, 9 – 10 May 2008, Cluj – Napoca, Romania, pp. 3 – 10.
36. Alexa P., **Ladar I.,** Mathe A., *Ductility of Semirigid Steel Frames*, IASS Symposium 2007, Structural Architecture Toward the future looking to the past, Venice, Italy, 2007.
37. ALEXA, P., CATARIG, A., KOPENETZ, L., MATHE, ALIZ, **LĂDAR, IOANA**, *Semirigid Steel Frames: Ductility Versus Strength*, Local Seminar of IASS Polish Chapter, XIII LSCE, Warsaw, 7 December 2007, pp. 15 – 20.