

**Author: Associate Professor SCUTARU Maria Luminița**

**Title: Models for the study of mechanical response of the solids and systems solids**

**Domain: Mechanical Engineering**

## PUBLICATIONS LIST

### RELEVANT PAPERS

1. **M.L.Scutaru**, H.Teodorescu, S.Vlase, M.Marin - Advanced HDPE with increased stiffness used for water supply networks, Journal of Optoelectronics and Advanced Materials Volume: 17 Issue: 3-4 Pages: 484-488 Published: March-April 2015, FI=0,563
2. **M. L. Scutaru**, M. Baritz, B. P. Galfi- Radiation influence on micro-structural mechanics of an advanced hemp carbon hybrid composit, Optoelectronics and Advanced Materials Volume: 8 Issue: 11-12 Pages: 1145-1149 Published: Nov. – Dec. 2014, FI=0,449
3. **M. L. Scutaru**,- Toward the use of irradiation for the composite materials properties improvemen, Journal of Optoelectronics and Advanced Materials Volume: 16 Issue: 9-10 Pages: 1165-1169 Published: September-October 2014, FI=0,563.
4. **M. L. Scutaru**, M. Baba, M.I. Baritz – „Irradiation influence on a new hybrid hemp bio-composite”, Journal of Optoelectronics and Advanced Materials Volume: 16 Issue: 7-8 Pages: 887- 891 Published: July-August 2014, FI=0,563.
5. **M.L.Scutaru**, M.Baba – “Investigation of the Mechanical Properties of Hybrid Carbon-Hemp Laminated Composites Used as Thermal Insulation for Different Industrial Applications”, Advances in Mechanical Engineering, Article Number: 829426 Published: 2014, FI=0,5
6. S. Vlase, C. Danasel, **M.L. Scutaru**, M. Mihalciță, - „Finite Element Analysis of a Two-Dimensional Linear Elastic Systems with a Plane “Rigid Motion”, Romanian Journal of Physics Volume: 59 Issue: 5-6 Pages: 476-487 Published: 2014, FI=0,743
7. S. Vlase, P.P. Teodorescu, C. Itu, **M.L. Scutaru** – „Elasto-Dynamics of a Solid with a General “Rigid” Motion Using FEM Model. Part II. Analysis of a Double Cardan Joint”, Romanian Journal of Physics, Volume: 58 Issue: 7-8 Pages: 882-892 Published: 2013, FI=0,526
8. Niculita, C ; Gabor, A ; Gheorghe, V Calin, MR ; **Scutaru, M.L**–A new epoxy glass roving fabric material with a nonwoven PES fibers structure used in a composite laminates Journal of Optoelectronics and Advanced Materials, Volume: 15 Issue: 3-4 Pages: 176-181 Published: MAR-APR 2013, FI=0,516
9. **Maria Luminita I. Scutaru**, Gheorghe M. Deliu, Dana M.Luca Motoc, Inertia Driven Reduced Doe Mechanism for Aeolian Pumps, 23rd International Congress of Theoretical and Applied Mechanics, ICTAM 2012, 19-24 August 2012, Beijing, China
10. **Scutaru, Maria Luminita**; Vlase, Sorin –Some Properties of Motion Equations Describing the Nonlinear Dynamical Response of a Multibody System with Flexible Elements, Journal of Applied Mathematics, Article Number: 628503 DOI: 10.1155/2012/628503 Published: 2012, FI=0,834

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**PhD THESIS**

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1. Wood and wooden materials thermo insulator panels used in buildings construction. Scientific leader: Prof. Dr. Ing.Ivan CISMARU, Brașov, 2006 - PhD diploma in Industrial Engineering

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**PATENTS**

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**PATENT SUMMARY IN BOPI**

1. **Scutaru M.L.**, Corneliu Cofaru - Compozit iradiat pe bază de rășină termorigidă și fibră de cânepă utilizat în industria auto și constructoare de mașini - Rezumat de brevet publicat în BOPI 11/29.11.13 & Espacenet 2013
2. **Scutaru M.L.**, Corneliu Cofaru, Teodorescu-Draghicescu Horatiu, Baba Marius, Dogaru Florin - Material compozit hibrid carbon-cânepă și procedeu de obținere al acestuia cu aplicație în industria auto și constructoare de mașini - Rezumat de brevet publicat în BOPI 4/2104 & Espacenet 2014
3. **Scutaru M.L.**, Corneliu Cofaru, Teodorescu-Draghicescu Horațiu, Baba Marius, Dogaru Florin - Material compozit hibrid sticlă – țesătură din cânepă și procedeu de obținere al acestuia cu aplicație în industria auto și constructoare de mașini - Rezumat de brevet publicat în BOPI 8/2104 & Espacenet 2014

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2. **Maria Luminita Scutaru** – Mecanica –Dinamica.Teorie și aplicații, Editura Universității Transilvania Brașov, ISBN 978-606-19-0443-3, 2014.
3. **Maria Luminita Scutaru** – Mecanica – Cinematica. Teorie și aplicații, Editura Universității Transilvania Brașov, ISBN 978-606-19-0269-9, 2013.
4. **Scutaru M.L.**, Chiru A., Vlase S., Cofaru C., Teodorescu H., Materiale plastice si compozite in ingineria autovehiculelor, Editura Matrix, ISBN 978-6-6-25-0023-8, 2013.
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11. **Maria- Luminița Scutaru** - Transferul termic prin panouri tip sandwich utilizate în construcția caselor, Editura Universității Transilvania Brasov, ISBN 978-973-635-877-7 , 2007.
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1. **Vlase,S.,Munteanu,V., Scutaru,L.**, Kinematical Analysis of the Multibody Systems using Topological Description, DAAAM 2008, **DAAAM International Scientific Book 2008**, Vol. 7, ISSN 1726-9687, ISBN 3-901509-69-0, Editor: B. Katalinic, hard cover, Publisher DAAAM International Vienna, Vienna.

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1. **M.L.Scutaru**, H.Teodorescu, S.Vlase, M.Marin - Advanced HDPE with increased stiffness used for water supply networks, Journal of Optoelectronics and Advanced Materials Volume: 17 Issue: 3-4 Pages: 484-488 Published: March-April 2015, FI=0,563
2. S. Vlase, C. Danasel, **M.L. Scutaru**, M. Mihalciță, -Finite Element Analysis of a Two-Dimensional Linear Elastic Systems with a Plane “Rigid Motion”, Romanian Journal of Physics Volume: 59 Issue: 5-6 Pages: 476-487 Published: 2014, FI=0,743
3. M.L.Scutaru, M.Baba –Investigation of the Mechanical Properties of Hybrid Carbon-Hemp Laminated Composites Used as Thermal Insulation for Different Industrial Application , Advances in Mechanical Engineering, Article Number: 829426 Published: 2014, FI=0,5
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6. **M. L. Scutaru**, M. Baritz, B. P. Galfi- Radiation influence on micro-structural mechanics of an advanced hemp carbon hybrid composite” Optoelectronics and Advanced Materials Volume: 8 Issue: 11-12 Pages: 1145-1149 Published: Nov. – Dec. 2014, FI=0,449
7. Teodorescu-Draghicescu, H.; **Scutaru, M. L.**; Rosu, D.; et al. – New Advanced Sandwich Composite with twill weave carbon and EPS Journal of Optoelectronics and Advanced Materials Volume: 15 Issue: 3-4 Pages: 199-203 Published: MAR-APR 2013, FI=0,516
8. Niculita, C ; Gabor, A ; Gheorghe, V Calin, MR ; **Scutaru, M.L** – A new epoxy glass roving fabric material with a nonwoven PES fibers structure used in a composite laminates, Journal of Optoelectronics and Advanced Materials, Volume: 15 Issue: 3-4 Pages: 176-181 Published: MAR-APR 2013, FI=0,516
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10. Purcarea, R.; Motoc, D. Luca; **Scutaru, M. L**, Mechanical behavior of a thin nonwoven polyester mat subjected to three-point bend tests Optoelectronics and Advanced

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11. **Scutaru, Maria Luminita;** Vlase, Sorin - Some Properties of Motion Equations Describing the Nonlinear Dynamical Response of a Multibody System with Flexible Elements, Journal of Applied Mathematics, Article Number: 628503 DOI: 10.1155/2012/628503 Published: 2012, FI=0,834
12. Stanciu, A.; Teodorescu-Draghicescu, H.; Vlase, S; **Scutaru M.L.;** Calin MR – Mechanical behavior of CSM450 and RT800 laminates subjected to four-point bend tests Optoelectronics and Advanced Materials -Rapid Communications ,Volume: 6 Issue: 3-4 Pages: 495-497 Published: MAR-APR 2012, FI=0,402
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14. Vlase, S.; Teodorescu-Draghicescu, H.; Motoc, D. L.; **Scutaru M.L;** Serbina L; Calin M.R. .Behavior of multiphase fiber-reinforced polymers under short time cyclic loading, Optoelectronics and Advanced Materials -Rapid Communications Volume: 5 Issue: 3-4 Pages: 419-423 Published: MAR 2011, FI=0,402
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16. Teodorescu-Draghicescu, H.; Stanciu, A.; Vlase, S.; **Scutaru L;** Calin M.R; Serbina L., Finite element method analysis of some fibre-reinforced composite laminates Optoelectronics and Advanced Materials -Rapid Communications, Volume: 5 Issue: 7 Pages: 782-785 Published: JUL 2011, FI=0,402

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1. **Scutaru Maria Luminita,** Marius Baba, Optimization of a „sandwich” structure for the Insulation of a Prefabricated Wooden House, 5<sup>th</sup> International Conference Advanced Composite Materials Engineerings COMAT 2014, 16- 17 October 2014, pg. 297-306, ISBN 978-1-939757234, DERC Publishing House, Boston, Massachusetts, U.S.A. (2014)
2. **Maria Luminita SCUTARU,** Marius Baba, Janos TIMAR, FLEXURAL RIGIDITY EVALUATION OF COMPOSITE SANDWICH PANEL OF CARBON-HEMP , 5<sup>th</sup> International Conference "Computational Mechanics and Virtual Engineering , COMEC 2013, 24- 25 October 2013, pg. 247-250, ISBN 987-1-939757-11-1, DERC Publishing House, Boston, Massachusetts, U.S.A. (2013)
3. **Maria Luminita SCUTARU,** Marius Baba, MECHANICAL BEHAVIOR OF HEMP-BASED COMPOSITE SUBJECTED TO IMPACT TEST, 5<sup>th</sup> International Conference "Computational Mechanics and Virtual Engineering , COMEC 2013, 24- 25 October 2013, pg.238-246, ISBN 987-1-939757-11-1, DERC Publishing House, Boston, Massachusetts, U.S.A. (2013)
4. **Maria Luminita Scutaru,** Corneliu Cofaru, Teodorescu -Draghicescu Horatiu, Janos Timar, Properties of Advanced New Hemp Fiber Materials Used in Automotive Engineering, 4th International Conference on AUTOMOTIVE and TRANSPORTATION SYSTEMS (ICAT '13) Brasov, Romania June 1-3, pg. 365-368, ISBN 978-1-61804-193-7 (2013)
5. Janos Timar, Corneliu Cofaru, Daniela Florea, Dinu Covaciu, **Maria Luminita Scutaru,** Qualitative evaluation of the macromolecular materials used by automobile constructors, 4th International Conference on AUTOMOTIVE and TRANSPORTATION SYSTEMS (ICAT '13) Brasov, Romania June 1-3, pg. 355-359, ISBN 978-1-61804-193-7 (2013)

6. C.Itu, **M.L.Scutaru**, Comparative Dynamic Analysis for a Door Car Using Different Types of Material Based on Virtual Simulation, 4th International Conference Advanced Composite Materials Engineerings COMAT 2012, 18-20 Oct. Brasov, pg.386-390, ISBN 978-0981730059, DERC Publishing House, Boston, Massachusetts, U.S.A. (2012)
7. **M.L.Scutaru**, C.Cofaru, H.TeodorescuDraghicescu, Research on study hemp fiber subjected to three-point bend tests , 4th International Conference Advanced Composite Materials Engineerings COMAT 2012, 18-20 Oct. Brasov, pg.155-159, ISBN 978-0981730059, DERC Publishing House, Boston, Massachusetts, U.S.A. (2012)
8. **M.L.Scutaru**, C.Cofaru, Research on Identification of Hemp Composites Using Tensile Testing , 4th International Conference Advanced Composite Materials Engineerings COMAT 2012, 18-20 Oct. Brasov, pg.149-154, ISBN 978-0981730059, DERC Publishing House, Boston, Massachusetts, U.S.A. (2012)
9. **Maria Luminita I. Scutaru**, Gheorghe M. Deliu, Dana M.Luca Motoc, INERTIA DRIVEN REDUCED DOE MECHANISM FOR AEOLIAN PUMPS, 23rd International Congress of Theoretical and Applied Mechanics, ICTAM 2012, 19-24 August 2012, Beijing, China, (2012)
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15. **M.L.Scutaru**, E.Secară, I.Enescu, R.Purcarea, C.Ambruș , Finit element analisys of a shell element with a general tree-dimension motion, The. 4<sup>th</sup> International Conference, “Computational Mechanics and Virtual Engineering” COMEC 2011, 20-22 Octombrie, Brasov, ISBN 978-973-131-122-7, (2011)
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  25. Teodorescu-Draghicescu, Horatiu, Vlase, Sorin, Scutaru, Maria Luminita, Motoc, Dana Luca, Guiman, Violeta, SOME ADVANCED SYMMETRIC COMPOSITE LAMINATES SUBJECTED TO OFF-AXIS LOADING SYSTEMS. A STIFFNESS EVALUATION SO PROCEEDINGS OF THE 13TH INTERNATIONAL CONFERENCE MODERN TECHNOLOGIES, QUALITY AND INNOVATION: MODTECH 2009 - NEW FACE OF TMCR, P 647-650 (2009).
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