

Universitatea din Craiova
Facultatea de Mecanică
Catedra Mecanică Aplicată și Construcții Civile
Conf. dr. ing. Cosmin Mihai Mirițoiu

L I S T A

lucrărilor științifice în domeniu

A. Teza de doctorat

Denumirea: *Contribuții la analiza solicitărilor mecanice în structuri metalice și hibride*, 2012 susținere publică, sub îndrumarea Prof. Dr. Emerit ing. Dan Dumitru Ilincioiu, Domeniul: Inginerie Mecanică

B. Cărți si capitole în cărți publicate

1	Mirițoiu, C., M., <i>Introducere în calculul și proiectarea construcțiilor metalice,</i> ISBN 978-606-11-6350-2, Editura SITECH, Craiova, România, 2018, 333 pag
2	Mirițoiu, C., M., Ilincioiu, D., <i>Rezistența Materialelor,</i> ISBN 978-606-11-6115-7, Editura SITECH, Craiova, România, 2017, 641 pag
3	Mirițoiu, C., M., <i>Introducere în calculul și proiectarea construcțiilor metalice.</i> Ediția a II a, ISBN 978-606-11-7191-0, Editura SITECH, Craiova, România, 2020, 366 pag.
4	Mirițoiu, C., M., <i>Introducere în calculul și proiectarea construcțiilor metalice.</i> Ediția a III a, ISBN 978-606-11-8607-5, Editura SITECH, Craiova, România, 2024, 413 pag.
5	Mirițoiu, C., M., Ilincioiu, D., <i>Rezistența Materialelor. Solicitări simple si elemente de teoria elasticității,</i> ISBN 978-606-11-5102-8, Editura SITECH, Craiova, România, 2016, 475 pag.
6	Mirițoiu, C., M., <i>Elemente introductive de știința și ingineria materialelor. Suport de curs,</i> ISBN 978-606-11-8527-6, Editura SITECH, Craiova, România, 2023, 256 pag
7	Ilincioiu, D., Mirițoiu, C., Pădeanu, A., <i>Rezistența Materialelor, Vol. 2,</i> Editura Universitaria, ISBN 978 606-510-774-8, ISBN 978 606-14-0159-8, Craiova, 2011, 344 pag.
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9	Mirițoiu, C., M., Pădeanu, A., <i>Construcții metalice. Îndrumar de laborator,</i> ISBN 978-606-11-6257-4, Editura SITECH, Craiova, România, 2018, 154 pag.



10	Tărăță, D.,F., Mirițoiu, C., M. , Tehnici avansate de investigare a materialelor. Îndrumar pentru lucrări de laborator, ISBN 978-606-11-8188-9, Editura SITECH, Craiova, România, 2022, 244 pag.
11	Mirițoiu, C. , Ilincioiu, D., Rezistența Materialelor. Aplicații. Volumul 1, ISBN 978-606-11-2970-6, Editura SITECH, Craiova, 2012, 283 pag.
12	Mirițoiu, C. , Ilincioiu, D., Rezistența Materialelor. Aplicații. Volumul 2, ISBN 978-606-11-3777-0, Editura SITECH, Craiova, 2014, 314 pag.
13	Stanimir, A., Stoian, A., Mirițoiu, C. , Tehnologia fabricării produselor mecanice. Îndrumar de laborator. Volumul 1, ISBN 978-606-11-3817-3 ISBN 978-606-11-3818-0, Editura SITECH, Craiova, 2013, 218 pag.
14	Stanimir, A., Stoian, A., Zamfirache, M., Didu, M., Mirițoiu, C. , Tehnologia fabricării produselor mecanice. Îndrumar de laborator. Volumul 2, ISBN 978-606-11-3817-3 ,ISBN 978-606-11-3819-7, Editura SITECH, Craiova, 2013, ,271 pag.
15	Mirițoiu, C., M. , Pădeanu, A., Construcții metalice. Îndrumar de laborator. Ediția a II-a, ISBN 978-606-11-8392-0, Editura SITECH, Craiova, România, 2023, 222 pag.
16	Mirițoiu, C., M. , Cercetare Științifică prin Analiza și Proiectarea Experimentelor, ISBN 978-606-11-8843-7, Editura SITECH, Craiova, România, 2025, 237 pag.

C. Lucrări indexate ISI publicate în ultimii 10 anii

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1	C.M., Mirițoiu , Influence of Crushed Corn Cob Mass Percentage on the Compression Breaking Strength of Composites with Hybrid Matrix Based on Dammar Resin, BioResources, 20(2), pp.4394-4415, 2025. (ISI, 2023-Impact Factor 1,3, quartile Q2) Link articol: https://bioresources.cnr.ncsu.edu/resources/influence-of-crushed-corn-cob-mass-percentage-on-the-compression-breaking-strength-of-composites-with-hybrid-matrix-based-on-dammar-resin/ Link WOS: https://www.webofscience.com/wos/woscc/full-record/WOS:001485448400004
2	Mirițoiu, C.M. , Roșca, A.S., Tutunea, D., Mechanical properties of composites reinforced with recycled paper and pine needles using polymer matrices containing 50 to 70% dammar resin, BioResources, 20(2), p. 3884–3909, 2025. (ISI, 2023-Impact Factor 1,3, quartile Q2) Link articol: https://bioresources.cnr.ncsu.edu/wp-content/uploads/2025/04/BioRes_20_2_3884_Miritoiu_RT_Mechan_Compos_Paper_Pine_Needles_Dammar_24553.pdf Link WOS: https://www.webofscience.com/wos/woscc/full-record/WOS:001476647800016
3	C.M., Miritoiu, D. , Dobrota, D., Popa, <i>Designing and study of composites reinforced with shredded corn stalks using a variety of matrices based on dammar, epoxy, and acrylic resins</i> , Polymer Testing, 142, article number 108672, 2025, DOI:

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4	Stănescu, M.M., Bolcu, D., Mirițoiu, C.M. , Ciucă, I., Bolcu, A., Rădoi, I.A., <i>The study of mechanical properties of sandwich composites with a hybrid resin matrix based on dammar, a core of chopped corn cobs and natural fabric faces. Applications in the furniture industry</i> , Materiale Plastice, 61 (3), p. 83-92, 2024, DOI: 10.37358/MP.24.3.5735. (ISI, 2023-Impact Factor 0,600 quartile Q4) Link articol: https://doi.org/10.37358/MP.24.3.5735 Link WOS: https://www.webofscience.com/wos/woscc/full-record/WOS:001339285800009
5	D., Bolcu, M.M., Stănescu, C.M. , Mirițoiu, I. , Ciucă, A., Bolcu, I.A., Rădoi, <i>The influence of hybrid matrices based on dammar on the mechanical properties of composites with chopped corn cobs reinforcement</i> , Materiale Plastice, 61 (3), p. 27-38, 2024, DOI: 10.37358/MP.24.3.5730. (ISI, 2023-Impact Factor 0,600 quartile Q4) Link articol: https://doi.org/10.37358/MP.24.3.5730 Link WOS: https://www.webofscience.com/wos/woscc/full-record/WOS:001339285800002
6	C.M., Mirițoiu , <i>Influence of Dammar Resin on the Mechanical Properties of Composites Reinforced with Corn Husk and Paper Waste</i> , BioResources, 19 (4), p. 9416–9446, 2024, DOI: 10.15376/biores.19.4.9416-9446. (ISI, 2023-Impact Factor 1,3, quartile Q2) Link articol: https://doi.org/10.15376/biores.19.4.9416-9446 Link WOS: https://www.webofscience.com/wos/woscc/full-record/WOS:001357992700012
7	C.M., Mirițoiu , <i>Mechanical properties of composite materials with dammar-based matrices and reinforced with paper and chicken feathers waste</i> , BioResources, 19 (3), p. 4698-4717, 2024, DOI: 10.15376/biores.19.3.4698-4717 (ISI, 2023-Impact Factor 1,3, quartile Q2) Link articol: https://doi.org/10.15376/biores.19.3.4698-4717 Link WOS: https://www.webofscience.com/wos/woscc/full-record/WOS:001259919000016
8	C.M., Mirițoiu , A.I. Rădoi, <i>Mechanical Properties for Composites with Dammar Resin Reinforced with Crushed Corn Cob</i> , Bioresources, 19 (1), p. 1757-1776, 2024, DOI: 10.15376/biores.19.1.1757-1776, (ISI, 2023-Impact Factor 1,3, quartile Q2) Link articol: https://bioresources.cnr.ncsu.edu/wp-content/uploads/2024/01/BioRes_19_1_1757_Miritoiu_R_Mechan_Composit_Hybrid_Dammar_Matrix_Corn_Cob_23018.pdf Link WOS: https://www.webofscience.com/wos/woscc/full-record/WOS:001179544400003
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9	I.M. Rotaru, D. Dobrotă, C.M. Mirițoiu , C.S. Dimulescu, <i>Optimization of the</i>

	<i>composition of polyvinyl chloride based composite materials with rubber matrices and fly ash additions respectively</i>, Polymer Testing, 129, p. 1-13, 2023, DOI: https://doi.org/10.1016/j.polymertesting.2023.108280 , (ISI, 2022-Impact Factor 5,1) Link articol: https://doi.org/10.1016/j.polymertesting.2023.108280 Link WOS: https://www.webofscience.com/wos/woscc/full-record/WOS:001121072300001
10	A.I. Rădoi, M.M. Stănescu, D. Bolcu, C.M. Mirițoiu, A.S. Roșca, M. Bogdan, C. Nicolicescu, <i>About some mechanical properties regarding sandwich samples reinforced with poplar strips and the core from crushed corn cobs with hybrid Dammar-based matrix</i>, Materiale Plastice, 60(2), p. 99-107, 2023, ISSN 0025-5289, WOS:001070349700010 (ISI, 2022-Impact Factor 0,800) https://revmaterialeplastice.ro/pdf/10%20RADOI%20%2023.pdf Link WOS: https://www.webofscience.com/wos/woscc/full-record/WOS:001070349700010
11	A.I. Rădoi, C.M., Mirițoiu, D. Bolcu, M.M. Stănescu, M. Bogdan, A. Pădeanu, <i>A STUDY ABOUT SOME COMPOSITES WITH THE MATRIX FROM POLYESTER RESIN AND NATURAL REINFORCEMENTS</i>, Acta Technica Napocensis, 65 (SI II), p. 415-420, 2023, ISSN 1221-5872, WOS:000911249300020 (ISI, 2022-Impact Factor 0,3) https://atna-mam.utcluj.ro/index.php/Acta/article/view/1919/1518 Link WOS: https://www.webofscience.com/wos/woscc/full-record/WOS:000911249300020
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12	D. Bolcu, M.M., Stănescu, C.M., Mirițoiu, <i>Some Mechanical Properties of Composite Materials with Chopped Wheat Straw Reinforcer and Hybrid Matrix</i>, Polymers, 14(15), p. 1-17, 2022, ISSN 2073-4360, WOS: 000840204700001 (ISI, 2022-Impact Factor 5,0) https://www.mdpi.com/2073-4360/14/15/3175 Link WOS: https://www.webofscience.com/wos/woscc/full-record/WOS:000840204700001 articol premiat de UEFISCDI pe anul 2023 (depus 10 martie 2023), revistă zona roșie, Nr. crt. 2162 și Cod Depunere PN-IV-P2-2.3-PRECISI-2023-74298 (Lista 1, publicată în 13.03.2023) https://doi.org/10.3390/polym14153175
13	A.I., Rădoi, I. Ciucă, M.M., Stănescu, D., Bolcu, C. Nicolicescu, C.M., Mirițoiu, M., Bogdan, <i>Studies Regarding Some Mechanical Properties for a Hybrid Resin Used to Build Composites Reinforced with Corn Cob Powder</i>, Materiale Plastice, 59(2), p. 24-31, 2022, ISSN 0025-5289, WOS: 000865452800001 (ISI, 2022-Impact Factor 0,800) https://revmaterialeplastice.ro/pdf/3RADOI%20%2022.pdf Link WOS: https://www.webofscience.com/wos/woscc/full-record/WOS:000865452800001
14	A. Bolcu, M.M. Stănescu, D. Bolcu, I. Ciucă, C.M. Mirițoiu, M.A., Ivan, <i>Study of Composite Bar Damping from Dammar Hybrid Resin Reinforced with Natural Fibers</i>, Materiale Plastice, 59(2), p. 100-110, 2022, ISSN 0025-5289, WOS: 000831634900006 (ISI, 2022-Impact Factor 0,800) https://revmaterialeplastice.ro/pdf/11BOLCU%20%2022.pdf Link WOS: https://www.webofscience.com/wos/woscc/full-record/WOS:000831634900006

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17	C.M. Mirițoiu, D., Bolcu, M.M., Stănescu, A.I., Rădoi, A. Diniță, <i>Experiments regarding the mechanical properties of an eco-resin based on dammar for obtaining some composite materials</i>, Romanian Journal of Materials, 51(2), p. 300-308, 2021, ISSN 1583/3186, (ISI, 2021-Impact Factor 0,628) https://solacolu.chim.upb.ro/pg300-308.pdf Link WOS: https://www.webofscience.com/wos/woscc/full-record/WOS:000657684400001
18	C.M. Mirițoiu, C. Burada, <i>A study regarding the mechanical properties of composites platbands with reinforcements from bast fibers</i>, Romanian Journal of Materials, 49 (2), p. 279-285, 2019, ISSN 2457-502X, ISSN-L 1583-3186, (ISI, 2019-Impact Factor 0,542) https://solacolu.chim.upb.ro/p279-285.pdf Link WOS: https://www.webofscience.com/wos/woscc/full-record/WOS:000474908300015
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24	C.O. Burada, M.M. Stănescu, C.M. Mirițoiu, A. Bolcu <i>Static and dynamic behaviour of platbands made from polyester resin reinforced with randomly disposed glass fiber</i>, Romanian Journal of Materials, 47(2), p. 267-275, 2017, ISSN 1583/3186, WOS:000404823800020 (ISI, 2017-Impact Factor 0,661) www.solacolu.chim.upb.ro Link WOS: https://www.webofscience.com/wos/woscc/full-record/WOS:000404823800020
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1	Miritoiu, C., M., Bolcu, D., Stănescu, M., M., Roșca, V., Experimental Determinations of the Eigenmodes for Sandwich Bars with Different Core Reinforced with Metal Fabric, Applied Mechanics and Materials, Vol. 658, pp. 255-260, doi:10.4028/www.scientific.net/AMM.658.255, 2014 https://www.scopus.com/record/display.uri?eid=2-s2.0-84920643320&origin=resultslist&sort=plf-f&src=s&st1=MIRITOIU%2c+C&st2=&sid=eafb90f961d6c0046a22d9036ed3fb37&sot=b&s
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2	Mirițoiu C. M, Stănescu M., M., Bolcu, A., Bolcu, D., Ionică, V., Static and dynamic mechanical properties of a new green resin based on dammar, 35th Danubia Adria Symposium on Advances in Experimental Mechanics, pp. 93-94, 2018 https://www.scopus.com/record/display.uri?eid=2-s2.0-85058277530&origin=resultslist&sort=plf-f&src=s&st1=MIRITOIU%2c+C&nlo=&nlr=&nls=&sid=eafb90f961d6c0046a22d9036ed3fb37&sot=b&sdt=b&sl=24&s=AUTHOR-NAME%28MIRITOIU%2c+C%29&relpos=1&citeCnt=0&searchTerm=
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4	Mirițoiu C. M, Burada, C., O., Tărăță, D., F., Bolcu, A., Ionică, V., <i>Experimental research regarding some dynamic parameters determination for sandwich bars reinforced with carbon fiber</i>, IOP Conference Series: Materials Science and Engineering, Annual International Session of Scientific Papers - IMT Oradea 2019; Oradea, Felix SPA; Romania, Volume 568, Issue 1, 17 September 2019, Article number 012041, Code 152405 https://www.scopus.com/record/display.uri?eid=2-s2.0-85073472835&origin=resultslist&sort=plf-f&src=s&st1=MIRITOIU%2c+C&st2=&sid=6f4a75af002912fc2e170b43c009c7b8&sot=b&sdt=b&sl=24&s=AUTHOR-NAME%28MIRITOIU%2c+C%29&relpos=1&citeCnt=0&searchTerm=
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D. Lucrări publicate în ultimii 10 ani în reviste și volume de conferințe cu referenți (neindexate)

E. Brevete obținute în întreaga activitate

1	Oficiul de Stat pentru Invenții și Mărci București; Brevet de Invenție RO 130837 B1; „Procedeu pentru realizarea unui material compozit cu matrice pe bază de rășină epoxidică ranforsat cu pipirig” Publicat în RO-BOPI 3/2018, din 30.03.2018; Inventatori: Mirițoiu Cosmin Mihai , Burada Cristian Oliviu, Stănescu Marius Marinel, Bolcu Dumitru.
2	Oficiul de Stat pentru Invenții și Mărci București; Brevet de Invenție RO 130755 B1; „Procedeu pentru realizarea unui material compozit cu matrice pe bază de rășină epoxidică ranforsat cu papură” Publicat în RO-BOPI 3/2018, din 30.03.2018; Inventatori: Burada Cristian Oliviu, Bolcu Dumitru, Stănescu Marius Marinel, Mirițoiu Cosmin Mihai .

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Conf. Dr. Ing. Cosmin Mihai Mirițoiu

E – Brevete (pentru întreaga activitate)

