

Scientific papers list of Professor Stănescu I. Marius Marinel

1. Papers / studies published in specialized publications

1.1. Papers published in ISI ranked journals

2024

1. **M.M. Stănescu**, D. Bolcu, C.M. Mirițoiu, I. Ciucă, A. Bolcu, A.I. Rădoi, *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*, Materiale Plastice, **61**(3), p. 83-92, 2024, ISSN 0025-5289, WOS:001339285800009 (**ISI, 2024-Impact Factor 0,700**) <https://doi.org/10.37358/MP.24.3.5735>
2. D. Bolcu, **M.M. Stănescu**, C.M. Mirițoiu, I. Ciucă, A. Bolcu, A.I. Rădoi, *The influence of hybrid matrices based on Dammar on the mechanical properties of composites with chopped corn cobs reinforcement*, Materiale Plastice, **61**(3), p. 27-38, 2024, ISSN 0025-5289, WOS:001339285800002 (**ISI, 2024-Impact Factor 0,700**) <https://doi.org/10.37358/MP.24.3.5730>
3. M.A. Ivan, A. Bolcu, I. Ciucă, D. Bolcu, **M.M. Stănescu**, *Exploring mechanical characteristics of biocomposites with Dammar matrix*, Environmental Engineering and Management Journal, **23**(1), p. 87-96, 2024, ISSN 1582-9596, WOS:001235350200009 (**ISI, 2024-Impact Factor 0,900**) <https://doi.org/10.30638/eemj.2024.008>

2023

4. A.I. Rădoi, **M.M. Stănescu**, D. Bolcu, C.M. Mirițoiu, A.S. Roșca, M. Bogdan, C. Nicolicescu, *About some mechanical properties regarding sandwich samples reinforced with poplar strips and the core from crushed corn cobs with hybrid Dammar-based matrix*, Materiale Plastice, **60**(2), p. 99-107, 2023, ISSN 0025-5289, WOS:001070349700010 (**ISI, 2023-Impact Factor 0,600**) <https://doi.org/10.37358/MP.23.2.5666>
5. A. Bolcu, **M.M. Stănescu**, D. Bolcu, I. Ciucă, A. Diniță, M. Bogdan, F.C. Badea, *The study of some mechanical properties of some composite materials with different types of matrices and reinforcement from Chromat-type isophthalic resin granules NPG*, Materiale Plastice, **60**(2), p. 1-9, 2023, ISSN 0025-5289, WOS:001070349700001 (**ISI, 2023-Impact Factor 0,600**) <https://doi.org/10.37358/MP.23.2.5656>
6. A. Bolcu, N. Cioateră, D. Bolcu, **M.M. Stănescu**, I. Ciucă, A. Diniță, *Chemical and mechanical properties for Rosin-based hybrid resins*, Materiale Plastice, **60**(1), p. 67-74, 2023, ISSN 0025-5289, WOS:001042086100008 (**ISI, 2023-Impact Factor 0,600**) <https://doi.org/10.37358/MP.23.1.5646>

2022

7. A. Bolcu, **M.M. Stănescu**, D. Bolcu, I. Ciucă, M. Bogdan, A. Diniță, N. Sârbu, *Study of the vibrations of some composite bars with polypropylene honeycomb core and carbon fiber and fiberglass fabric faces*, Materiale Plastice, **59**(3), p. 1-12, 2022, ISSN 0025-5289, WOS:000883917200001 (**ISI, 2022-Impact Factor 0,800**) <https://doi.org/10.37358/MP.22.3.5601>
8. D. Bolcu, **M.M. Stănescu**, C.M. Mirițoiu, *Some mechanical properties of composite materials with chopped wheat straw reinforcer and hybrid matrix*, Polymers, **14**(15), 3175, 2022, ISSN 2073-4360, WOS:000840204700001 (**ISI, 2022-Impact Factor 5,000**) awarded paper by UEFISCDI for the year 2023 (submitted March 10, 2023), red zone journal, No. 2162 and PN-IV-P2-2.3-PRECISI-2023-74298 code (List 1, No. 1666, approved by MCID address 452502/21.12.2023) <https://doi.org/10.3390/polym14153175>
9. A.I. Rădoi, I. Ciucă, C.M. Mirițoiu, **M.M. Stănescu**, D. Bolcu, M. Bogdan, A. Diniță, *Studies regarding some mechanical properties for a hybrid resin used to build composites reinforced*

- with corn cob powder, *Materiale Plastice*, **59**(2), p. 24-31, 2022, ISSN 0025-5289, WOS:000865452800001 (ISI, 2022-Impact Factor 0,800) <https://doi.org/10.37358/MP.22.2.5581>
10. A. Bolcu, **M.M. Stănescu**, D. Bolcu, I. Ciucă, C.M. Mirițoiu, A.M. Ivan, *Study of composite bar damping from Dammar hybrid resin reinforced with natural fibres*, *Materiale Plastice*, **59**(2), p. 100-110, 2022, ISSN 0025-5289, WOS:000831634900006 (ISI, 2022-Impact Factor 0,800) <https://doi.org/10.37358/MP.22.2.5589>
 11. I. Ciucă, **M.M. Stănescu**, D. Bolcu, C.M. Mirițoiu, A.I. Rădoi, *Study of mechanical properties for composite materials with hybrid matrix based on Dammar and natural reinforcers*, *Environmental Engineering and Management Journal*, **21**(2), p. 299-307, 2022, ISSN 1582-9596, WOS:000779958800013 (ISI, 2022-Impact Factor 1,100) www.omicron.ch.tuiasi.ro/EEMJ/
 12. **M.M. Stănescu**, A. Bolcu, *A study of the mechanical properties in composite materials with a Dammar-based hybrid matrix and reinforcement from crushed shells of sunflower seeds*, *Polymers*, **14**(3), 392, 2022, ISSN 2073-4360, WOS:000756534800001 (ISI, 2022-Impact Factor 5,000) awarded paper by UEFISCDI for the year 2023 (submitted March 10, 2023), red zone journal, No. 2140 and PN-IV-P2-2.3-PRECISI-2023-74235 code (List 1, No. 1647, approved by MCID address 452502/21.12.2023) <https://doi.org/10.3390/polym14030392> 2021
 13. C.M. Mirițoiu, **M.M. Stănescu**, D. Bolcu, A.I. Rădoi, C. Nicolicescu, A. Diniță, *A study about some mechanical properties for composites reinforced with corn cob powder*, *Materiale Plastice*, **58**(4), p. 1-8, 2021, ISSN 0025-5289, WOS:000705010100006 (ISI, 2021-Impact Factor 0,782) <https://doi.org/10.37358/MP.21.4.5525>
 14. V.A. Georgeanu, D. Bolcu, **M.M. Stănescu**, I. Ciucă, V. Ștefănescu, R. Ciocoiu, M.A. Ivan, *Analysis of some mechanical properties of hybrid matrix composites reinforced by flax fabric. Orthopaedic applications*, *Materiale Plastice*, **58**(3), p. 148-159, 2021, ISSN 0025-5289, WOS:000705010100006 (ISI, 2021-Impact Factor 0,782) <https://doi.org/10.37358/MP.21.3.5513>
 15. C.M. Mirițoiu, D. Bolcu, **M.M. Stănescu**, A. Diniță, A. Rădoi, *A study regarding the static and dynamic behaviour of samples made from an eco-resin with and without natural reinforcement*, *Romanian Journal of Materials*, **51**(2), p. 300-308, 2021, ISSN 1583/3186, WOS:000657684400001 (ISI, 2021-Impact Factor 0,628) www.solacolu.chim.upb.ro
 16. V.A. Georgeanu, **M.M. Stănescu**, D. Bolcu, I. Ciucă, M. Bogdan, A.A. Iordache Sabo, *Study of chemical composition and some material properties for a hybrid resin based on Dammar*, *Materiale Plastice*, **58**(1), p. 47-56, 2021, ISSN 0025-5289, WOS:000691212300001 (ISI, 2021-Impact Factor 0,782) <https://doi.org/10.37358/MP.21.1.5444>
 17. M.H. Franz, I. Neda, C.V. Maftai, I. Ciucă, D. Bolcu, **M.M. Stănescu**, *Studies of chemical and mechanical properties of hybrid composites based on natural resin Dammar formulated by epoxy resin*, *Polymer Bulletin*, **78**(5), p. 2427-2438, 2021, ISSN: 0170-0839, WOS:000530789200001 (ISI, 2021-Impact Factor 2,870) awarded paper by UEFISCDI in 2020 (submitted in 16 November 2020), yellow zone journal, having the No. 9 and PN-III-P.1-1.1-PRECISI-2020-51946 code (List 6 published on 04.12.2020) <https://doi.org/10.1007/s00289-020-03221-4> 2020
 18. **M.M. Stănescu**, D. Bolcu, *A study of some mechanical properties of composite materials with a Dammar-based hybrid matrix and reinforced by waste paper*, *Polymers*, **12**(8), 2020, 1688, ISSN 2073-4360, WOS:000568603300001 (ISI, 2020-Impact Factor 4,329) awarded paper by UEFISCDI in 2020 (submitted in 09 November 2020), red zone journal, having the No. 18 and PN-III-P.1-1.1-PRECISI-2020-51585 code (List 5 published on 04.12.2020) <https://doi.org/10.3390/polym12081688>
 19. D. Bolcu, **M.M. Stănescu**, *A study of some mechanical properties of composite materials with a Dammar-based hybrid matrix and two types of flax fabric reinforcement*, *Polymers*, **12**(8), 2020,

- 1649, ISSN 2073-4360, WOS:000567055500001 (ISI, 2020-Impact Factor 4,329) awarded paper by UEFISCDI in 2020 (submitted in 09 November 2020), red zone journal, having the No. 19 and PN-III-P.1-1.1-PRECISI-2020-51586 code (List 5 published on 04.12.2020) <https://doi.org/10.3390/polym12081649>
20. D. Bolcu, **M.M. Stănescu**, I. Ciucă, C.M. Mirițoiu, A. Diniță, A. Bolcu, *A study regarding the mechanical properties of a hybrid matrix with various volume proportions of Dammar*, Materiale Plastice, **57**(1), p. 133-140, 2020, ISSN 0025-5289, WOS:000528195000016 (ISI, 2020-Impact Factor 0,593) <https://doi.org/10.37358/MP.20.1.5320>
 21. C.M. Mirițoiu, **M.M. Stănescu**, D. Bolcu, *Researches regarding the mechanical properties of a new hybrid vegetal resin*, Materiale Plastice, **57**(1), p. 37-45, 2020, ISSN 0025-5289, WOS:000528195000006 (ISI, 2020-Impact Factor 0,593) <https://doi.org/10.37358/MP.0.0.5310>
 22. **M.M. Stănescu**, L. Andrei, I. Ciucă, D. Bolcu, *On some differential sandwich theorems of p – valent functions*, University Politehnica of Bucharest, Scientific Bulletin Series A – Applied Mathematics and Physics, Vol. 82, Issue 1, p. 241-252, 2020, ISSN 1223-7027, WOS:000517837900024 (ISI, 2020-Impact Factor 0,903) https://www.scientificbulletin.upb.ro/rev_docs_arhiva/rez71f_196980.pdf
2019
 23. C.M. Mirițoiu, **M.M. Stănescu**, C.O. Burada, D. Bolcu, A. Pădeanu, A. Bolcu, *Comparisons between some composite materials reinforced with hemp fibers*, Materials Today: Proceedings, **12**, p. 499-507, 2019, ISSN 2214-7853, WOS:000468465100045 (ISI, 2019-Impact Factor 0,970) www.materialstoday.com/proceedings
 24. D. Bolcu, **M.M. Stănescu**, I. Ciucă, A. Diniță, A. Roșca, D. Roșca, *Experimental research into the mechanical behavior of Dammar and Sandarac-based bio resins*, Materiale Plastice, **56**(1), p. 1-5, 2019, ISSN 0025-5289, WOS:000464604100001 (ISI, 2019-Impact Factor 1,517) <https://doi.org/10.37358/MP.19.1.5112>
 25. **M.M. Stănescu**, D. Bolcu, *A study of some mechanical properties of a category of composites with a hybrid matrix and natural reinforcements*, Polymers, **11**(3), 478, 2019, ISSN 2073-4360, WOS:000464503400003 (ISI, 2019-Impact Factor 3,426) awarded paper by UEFISCDI in 2019 (submitted in 18 July 2019), red zone journal, having the No. 938 and PN-III-P.1-1.1-PRECISI-2019-34362 code (List 7 published on 14.11.2019) <https://doi.org/10.3390/polym11030478>
 26. D. Bolcu, **M.M. Stănescu**, *The influence of non uniformities on the mechanical behavior of hemp-reinforced composite materials with a Dammar matrix*, Materials, **12**(8), 1232, 2019, ISSN 1996-1944, WOS:000467767400038 (ISI, 2019-Impact Factor 3,057) awarded paper by UEFISCDI in 2019 (submitted in 18 July 2019), yellow zone journal, having the No. 939 and PN-III-P.1-1.1-PRECISI-2019-34365 code (List 7 published on 14.11.2019) <http://dx.doi.org/10.3390/ma12081232>
2018
 27. I. Ciucă, **M.M. Stănescu**, D. Bolcu, *A study on the mechanical properties of some green-composites*, Environmental Engineering and Management Journal, **17**(12), p. 2991-2998, 2018, ISSN: 1582-9596, WOS:000456043800023 (ISI, 2018-Impact Factor 1,186) www.omicron.ch.tuiasi.ro/EEMJ/
 28. C.M. Mirițoiu, C.O. Burada, **M.M. Stănescu**, A. Bolcu, *Dynamic and static behaviour of composite sandwich platbands with kevlar honeycomb core*, Romanian Journal of Materials, **48**(1), p. 101-107, 2018, WOS:000429213900015 (ISI, 2018-Impact Factor 0,628) ISSN 1583/3186, www.solacolu.chim.upb.ro
 29. I. Ciucă, **M.M. Stănescu**, D. Bolcu, L.F. Deaconu, *A study of some mechanical and chemical properties of composite materials made up of UPR and ISO/NPG granules of the type of Buzi/Perdido Chromate*, Revista de Chimie, **69**(5), p. 1045-1049, 2018, WOS:000434954100003 (ISI, 2018-Impact Factor 1,605) ISSN 2537/5733, www.revistadechimie.ro/

2017

30. Ciucă I., A. Bolcu, **M.M. Stănescu**, *The study of some mechanical properties for bio-composite materials with Dammar based matrix*, Environmental Engineering and Management Journal, 16(12), p. 2851-2856, 2017, ISSN: 1582-9596, WOS:000423792300019 (**ISI, 2017-Impact Factor 1,334**) www.omicron.ch.tuiasi.ro/EEMJ/
31. C.P. Niculescu, **M.M. Stănescu**, *A note on Abel's partial summation formula*, Aequationes Mathematicae, 91(6), p. 1009-1024, 2017, WOS:000417056400002 (**ISI, 2017-Impact Factor 0,644**) ISSN: 0001-9054, awarded paper by UEFISCDI in 2017 (submitted in 09 July 2018), yellow zone journal, having the No. 25 and PN-III-P.1- PRECISI-2017-23768 code (List 5 published on 07.12.2018) <http://doi:10.1007/s00010-017-0504-9>
32. A. Bolcu, N. Dumitru, I. Ciucă, **M.M. Stănescu**, D. Bolcu, *The vibrations study of Dammar based composite bars reinforced with natural fibers by using a new Euler – Bernoulli theory*, Materiale Plastice, 54(3), p. 423-429, 2017, WOS:000426412300004 (**ISI, 2017-Impact Factor 1,248**) ISSN 0025-5289, <https://doi.org/10.37358/MP.17.3.4864>
33. D. Bolcu, **M.M. Stănescu**, I. Ciucă, C.M. Mirițoiu, A. Bolcu, R. Ciocoiu, *The vibration study of Dammar based composite bars by using a new Euler-Bernoulli theory*, Materiale Plastice, 54(1), p. 1-7, 2017, WOS:000400629900001 (**ISI, 2017-Impact Factor 1,248**) ISSN 0025-5289, <https://doi.org/10.37358/MP.17.1.4773>
34. C.O. Burada, **M.M. Stănescu**, C.M. Mirițoiu, A. Bolcu, *Static and dynamic behaviour of platbands made from polyester resin reinforced with randomly disposed glass fiber*, Romanian Journal of Materials, 47(2), p. 267-275, 2017, WOS:000404823800020 (**ISI, 2017-Impact Factor 0,661**) ISSN 1583-3186, www.solacolu.chim.upb.ro
35. C.P. Niculescu, **M.M. Stănescu**, *The Steffensen–Popoviciu measures in the context of quasiconvex functions*, Journal of Mathematical Inequalities, 11(2), p. 469-483, 2017, WOS:000405107900013 (**ISI, 2017-Impact Factor 0,849**) ISSN: 1846-579X, awarded paper by UEFISCDI in 2017 (submitted in 09 July 2018), yellow zone journal, having the No. 25 and PN-III-P.1- PRECISI-2017-23768 code (List 5 published on 07.12.2018) <http://doi:10.7153/jmi-11-39>

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36. **M.M. Stănescu**, *Kelvin model equivalent to a body with viscoelastic behaviour*, Materiale Plastice, 53(2), p. 235-239, 2016, WOS:000380629300012 (**ISI, 2016-Impact Factor 0,778**) ISSN 0025-5289, www.revmaterialeplastice.ro

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37. C.O. Burada, C.M. Mirițoiu, **M.M. Stănescu**, D. Bolcu, *Experimental determinations of some mechanical properties for new types of composite bars with polypropylene honeycomb core*, Proc. Ro. Acad., Series A, 16(1), p. 70-79, 2015, WOS:000350946500010 (**ISI, 2015-Impact Factor 1,735**) ISSN 1454-9069, awarded paper by UEFISCDI in 2015 (submitted in 9 November 2009), red zone journal, having the No. 180 and PN-II-RU-PRECISI-2015-9-9953 code (List 4 published on 11.12.2015) www.academiaromana.ro/proceedings.htm
38. C.O. Burada, C.M. Mirițoiu, **M.M. Stănescu**, D. Bolcu, *The vibration behaviour of composite sandwich platbands reinforced with glass fiber*, Romanian Journal of Materials, 45(3), p. 244–254, 2015, WOS:000361783400006 (**ISI, 2015-Impact Factor 0,612**) ISSN 1583-3186, www.solacolu.chim.upb.ro
39. **M.M. Stănescu**, *A study regarding the mechanical behaviour of Dammar based composite materials, reinforced with natural fiber fabrics*, Materiale Plastice, 52(4), p. 596-600, 2015, WOS:000368971900037 (**ISI, 2015-Impact Factor 0,903**) ISSN 0025-5289, www.revmaterialeplastice.ro

2014

40. C.O. Burada, C.M. Mirițoiu, D. Bolcu, **M.M. Stănescu**, *Experimental determinations of the damping factor and stiffness for new sandwich platbands with different reinforcement and core*, Romanian Journal of Materials, 44(4), p. 405–413, 2014, WOS:000346882700010 (**ISI, 2014-Impact Factor 0,563**) ISSN 1583-3186, www.solacolu.chim.upb.ro

41. **M.M. Stănescu**, D. Bolcu, I. Ciucă, A. Diniță, *Study on non uniformity of composite materials reinforced with carbon and carbon-kevlar fibers fabric*, Materiale Plastice, 51(4), p. 355-358, 2014, WOS:000345883300003 (**ISI, 2014-Impact Factor 0,824**) ISSN 0025-5289, www.revmaterialoplastice.ro
42. D. Bolcu, **M.M. Stănescu**, I. Ciucă, S. Dumitru, M. Sava, *Study about the nonuniformity from composite materials reinforced with fiber glass fabric*, Materiale Plastice, 51(1), p. 97-100, 2014, WOS:000333795300021 (**ISI, 2014-Impact Factor 0,824**) ISSN 0025-5289, www.revmaterialoplastice.ro
2013
43. Ig. Cialenco, **M.M. Stănescu**, D. Bolcu, I. Ciucă, *Finiteness of the point spectrum for some integro-differential operators*, University Politehnica of Bucharest, Scientific Bulletin Series A – Applied Mathematics and Physics, Vol. 75, Issue 4, p. 177-192, 2013, WOS:000328301900016 (**ISI, 2012-Impact Factor 0,280**) ISSN 1223-7027, www.scientificbulletin.upb.ro
44. **M.M. Stănescu**, D. Bolcu, I. Ciucă, C.M. Mirițoiu, F. Baci, *Experimental determinations of stiffness and damping coefficient of the sandwich bars with core of polypropylene honeycomb reinforced with steel fabric*, Materiale Plastice, 50(3), p. 179-182, 2013, WOS:000324783500007 (**ISI, 2013-Impact Factor 0,463**) ISSN 0025-5289, www.revmaterialoplastice.ro
45. **M.M. Stănescu**, P. Stavre, D. Bolcu, S. Rizescu, M. Ursache, *A discrete $\theta(D)$ algorithm designed to increase the convergence speed in solving transport – type problems*, University Politehnica of Bucharest, Scientific Bulletin Series A – Applied Mathematics and Physics, Vol. 75, Issue 3, p. 123-134, 2013, WOS:000322847600013 (**ISI, 2012-Impact Factor 0,280**) ISSN 1223-7027, www.scientificbulletin.upb.ro
46. D. Bolcu, **M.M. Stănescu**, I. Ciucă, C.M. Mirițoiu, R. Cormos, *Comparative study about the damping properties of the sandwich beams with core by polystyrene or polypropylene honeycomb*, Materiale Plastice, 50(2), p. 100-105, 2013, WOS:000320842600007 (**ISI, 2013-Impact Factor 0,463**) ISSN 0025-5289, www.revmaterialoplastice.ro
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47. C.M. Mirițoiu, D. Bolcu, **M.M. Stănescu**, I. Ciucă, R. Cormos, *Determination of damping coefficients for sandwich bars with polypropylene honeycomb core and the exterior layers reinforced with metal fabric*, Materiale Plastice, 49(2), p. 118-122, 2012, WOS:000305843200009 (**ISI, 2012-Impact Factor 0,379**) ISSN 0025-5289, www.revmaterialoplastice.ro
2011
48. **M.M. Stănescu**, D. Bolcu, I. Ciucă, M. E. Buculei, *Study of some elastic properties for sandwich bars with symmetrical distribution of layers*, Materiale Plastice, 48(4), p. 326-331, 2011, WOS:000299453100012 (**ISI, 2011-Impact Factor 0,387**) ISSN 0025-5289, www.revmaterialoplastice.ro
49. D. Bolcu, **M.M. Stănescu**, I. Ciucă, S. Degeratu, M. A. Grozea, *Study of some elastic properties of sandwich beams reinforced with different types of fabric*, Materiale Plastice, 48(2), p. 195-201, 2011, WOS:000292630200015 (**ISI, 2011-Impact Factor 0,387**) ISSN 0025-5289, www.revmaterialoplastice.ro
50. D. Bolcu, M. Ursache, S. Rizescu, S. Degeratu, N.G. Bîzdoacă, **M.M. Stănescu**, *The utilization of elasticity matrix spectral decomposition in calculating the elastic properties of a composite bar having transverse isotropy*, University Politehnica of Bucharest, Scientific Bulletin Series A – Applied Mathematics and Physics, Vol. 73, Issue 1, p. 177-188, 2011, WOS:000289016200019 (**ISI, 2011-Impact Factor 0,192**) ISSN 1223-7027, www.scientificbulletin.upb.ro
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51. D. Bolcu, S. Rizescu, M. Ursache, N.G. Bîzdoacă, **M.M. Stănescu**, P. Rinderu, *Spectral decomposition of the elasticity matrix*, University Politehnica of Bucharest, Scientific Bulletin Series A – Applied Mathematics and Physics, Vol. 72, Issue 4, p. 217-232, 2010,

- WOS:000286087500021 (ISI, 2010-Impact Factor 0,253) ISSN 1223-7027, www.scientificbulletin.upb.ro
52. M.M. Stănescu, D. Bolcu, S.D. Pastramă, I. Ciucă, I. Manea, F. Baci, *Determination of damping factor, to vibrations of composite bars, reinforced with carbon and kevlar texture*, Materiale Plastice, 47(4), p. 492-496, 2010, WOS:000291134000020 (ISI) ISSN 0025-5289, www.revmaterialoplastice.ro
 53. D. Bolcu, M.M. Stănescu, I. Ciucă, O. Trante, G. Dinu, *Mechanical properties of composite materials reinforced with wheat straw*, Materiale Plastice, 47(2), p. 219-224, 2010, WOS:000281051300020 (ISI) ISSN 0025-5289, www.revmaterialoplastice.ro
 54. M.M. Stănescu, D. Bolcu, I. Ciucă, S. Rizescu, O. Trante, M. Bayer, *The nonlinear mechanical behavior of composite materials reinforced with carbon fiber weaves*, Materiale Plastice, 47(1), p.103-108, 2010, WOS:000276587100019 (ISI) ISSN 0025-5289, www.revmaterialoplastice.ro
 55. M.M. Stănescu, Ig. Cialenco, *Absence of eigenvalues for integro-differential operators with periodic coefficients*, Scientific Annals of Ovidius University Constanta, Mathematical Series, vol. XXVIII, fasc. 2, p. 253-266, 2010, WOS:000284232500021 (ISI) ISSN 1224-1784, www.anstuocmath.ro
- 2009**
56. I. Ciucă, D. Bolcu, M.M. Stănescu, S. Rizescu and others, *Experimental research related to the mechanical properties of composite materials reinforced with woven polypropylene*, Materiale Plastice, 46(4), p. 444-447, 2009, WOS:000274282300020 (ISI) ISSN 0025-5289, www.revmaterialoplastice.ro
 57. D. Bolcu, M.M. Stănescu, I. Ciucă, O. Trante, M. Bayer, *New relations for the calculus of elastic and mechanical characteristics of polyester composites reinforced with randomly dispersed fibers*, Materiale Plastice, 46(2), p. 206-210, 2009, WOS:000269110000019 (ISI) ISSN 0025-5289, awarded paper by CNCSIS in 2009 (submitted on 2010), having the No. 2550, Crt. No. 164 and CNCSIS 202 code (List-results-prizes-articles-stage-II-2009) www.revmaterialoplastice.ro
 58. M.M. Stănescu, D. Bolcu, I. Manea, I. Ciucă, M. Bayer, A. Semenescu, *Experimental researches concerning the properties of composite materials with random distribution of reinforcement*, Materiale Plastice, 46(1), p. 73-78, 2009, WOS:000265431100014 (ISI) ISSN 0025-5289, awarded paper by CNCSIS in 2009 (submitted on January 2010), having the No. 2555, Crt. No. 165 and CNCSIS 204 code (List-results-prizes-articles-stage-II-2009) www.revmaterialoplastice.ro
- 2008**
59. I. Ciucă, M.M. Stănescu, D. Bolcu, A. Motomancea, M. Butu, *The resistance to fracture determination for composite plates with random distribution of reinforcement*, Materiale Plastice, 45(4), p. 351-355, 2008, WOS:000262600800009 (ISI, 2008-Impact Factor 0,873) ISSN 0025-5289, awarded paper by CNCSIS in 2008 (submitted in January 2009), having the No. 806 and CNCSIS 18 code www.revmaterialoplastice.ro
 60. I. Ciucă, D. Bolcu, M.M. Stănescu, Gh. Marin, S.D. Ionescu, *Study concerning some elasticity characteristics determination of composite bars*, Materiale Plastice, 45(3), p. 279-284, 2008, WOS:000259940400013 (ISI, 2008-Impact Factor 0,873) ISSN 0025-5289, awarded paper by CNCSIS in 2008 (submitted in January 2009), having the No. 701 and CNCSIS 17 code www.revmaterialoplastice.ro
 61. D. Bolcu, M.M. Stănescu, I. Ciucă, G. Jiga, H. Gheorghiu, D. Iancului, *The experimental validation of the analytical model, used to study the dynamic behavior of a multilayer composite structure*, Materiale Plastice, 45(2), p. 137-142, 2008, WOS:000259119700002 (ISI, 2008-Impact Factor 0,873) ISSN 0025-5289, awarded paper by CNCSIS in 2008 (submitted in January 2009), having the No. 780 and CNCSIS 16 code www.revmaterialoplastice.ro

1.2. Papers published in some ISI indexed conferences

2023

1. A.I. Rădoi, **M.M. Stănescu**, D. Bolcu, C.M. Mirițoiu, C. Nicolicescu, A. Bolcu, *Static and dynamic behavior of composite sandwich bars with crushed corn cob core*, Acoustics and Vibration of Mechanical Structures, May 26-27, Timisoara, Romania, 2023, Springer Proceedings in Physics, vol. 302, 2024, ISBN 978-3-031-48086-7, Springer, Cham. https://doi.org/10.1007/978-3-031-48087-4_36

2022

2. A.I. Rădoi, C.M. Mirițoiu, D. Bolcu, **M.M. Stănescu**, M. Bogdan, A. Pădeanu, *A study about some composites with the matrix from polyester resin and natural reinforcements*, Acta Technica Napocensis, Series: Applied Mathematics, Mechanics, and Engineering, Vol. **65**, Special Issue 2S, p. 415-420, 2022, ISSN 1221-5872, WOS:000911249300020 (**ISI Journal**) <https://atna-mam.utcluj.ro/index.php/Acta/article/view/1919>

2021

3. **M.M. Stănescu**, V. Ionică D. Bolcu, M. Bogdan, I. Geonea, *A method for the analysis of vibrations occurring within some mechanical systems which contain Spur Gears*, Acta Technica Napocensis, Series: Applied Mathematics, Mechanics, and Engineering, Vol. **64**, Special Issue II, February, p. 429-438, 2021, ISSN 1221-5872, WOS:000633446300018 (**ISI Journal**) <https://atna-mam.utcluj.ro/index.php/Acta/article/view/1542/1264>
4. C.M. Mirițoiu, **M.M. Stănescu**, D. Bolcu, G. Jiga, A.I. Rădoi, D.I. Tudose, *About the mechanical properties for a type of green composites with hybrid Dammar/Sandarac matrix and natural reinforcements*, published in Macromolecular Symposia, **396**(1), 2021, 2000305, Special Issue: Progress on Polymers and Composites Products and Manufacturing Technologies—POLCOM 2020 Part II, ISSN 1022-1360, WOS:000641766900016 (**ISI journal**) <https://doi.org/10.1002/masy.202000305>

2020

5. A. Bolcu, N. Dumitru, D. Bolcu, C.M. Mirițoiu, **M.M. Stănescu**, *A study of the mechanical behavior of a car part realized from epoxy resin reinforced with cotton woven*, SIAR International Congress of Automotive and Transport Engineering: Science and Management of Automotive and Transportation Engineering (SMAT 2019), Springer International Publishing 2020 (**ISI Proceedings**), p. 550-558, ISBN 978-3-030-32563-3, WOS:000528526600064 https://doi.org/10.1007/978-3-030-32564-0_64

2019

6. G. Jiga, **M.M. Stănescu**, D. Bolcu, *Study of some mechanical properties of Dammar matrix reinforced with hemp fabrics composites*, The 9-th International Conference on Structural Analysis of Advanced Materials, ICSAAM-2019, 12-15 September 2019, Ischia, Italy, published in AIP Conference Proceedings (**ISI Proceedings**), 2196(1), 020006, 2019, ISSN 0094-243X, WOS:000556167600006 <https://doi.org/10.1063/1.5140279>

2018

7. **M.M. Stănescu**, D. Bolcu, D. Gh. Băgnaru, M. Bogdan, V. Ionică, *Study on transverse vibrations of a lathe*, 2nd International Workshop on Materials Science and Mechanical Engineering (IWMSME 2018), IOP Publishing, IOP Conf. Series: Materials Science and Engineering 504(1) (2019) 012085, ISSN 1757-899X, WOS:000471242000085 (**ISI Proceedings**), <https://doi:10.1088/1757-899X/504/1/012085> (Conference date: October 26-28, 2018, Qingdao, China).

2017

8. D. Gh. Băgnaru, **M.M. Stănescu**, M.C. Mirițoiu, D. Bolcu, V. Ionică, *Researches regarding the main chain vibrations study of a shaper*, 1st International Workshop on Materials Science and Mechanical Engineering (IWMSME 2017), IOP Publishing, IOP Conf. Series: Materials Science and Engineering 281 (2017) 012025, ISSN 1757-8981, WOS:000426788700025 (**ISI Proceedings**), <http://dx.doi.org/10.1088/1757-899X/281/1/012025> (Conference date October 27-29 2017, Kunming, China).

2016

9. F. Baci, A. Hadar, M. Sava, **M.M. Stnescu**, D. Bolcu, *Calculation of the relative uniformity coefficient on the green composites reinforced with cotton and hemp fabric*, International Conference of Numerical Analysis and Applied Mathematics 2015 (ICNAAM 2015), AIP (American Institute of Physics) Conf. Proc. 1738, 480086 (2016), WOS:000380803300539 (**ISI Proceedings**); <http://dx.doi.org/10.1063/1.4952322> (Conference date 22-28 September 2015, Rodos, Greece).
10. M. Sava, A. Hadar, I. Pruanu, H.A. Petrescu, F. Baci, **M.M. Stnescu**, *Analysis of discontinuities influence on the difference between static and dynamic elastic modulus of composite materials*, International Conference of Numerical Analysis and Applied Mathematics 2015 (ICNAAM 2015), AIP (American Institute of Physics) Conf. Proc. 1738, 480085 (2016), WOS:000380803300538 (**ISI Proceedings**); <http://dx.doi.org/10.1063/1.4952321> (Conference date 22-28 September 2015, Rodos, Greece).
11. M. Sava, A. Hadar, I. Pruanu, H.A. Petrescu, F. Baci, **M.M. Stnescu**, *Validation of the numerical model of single-layer composites reinforced with carbon fiber and aramid*, International Conference of Numerical Analysis and Applied Mathematics 2015 (ICNAAM 2015), AIP (American Institute of Physics) Conf. Proc. 1738, 480080 (2016), WOS:000380803300533 (**ISI Proceedings**); <http://dx.doi.org/10.1063/1.4952316> (Conference date 22-28 September 2015, Rodos, Greece).

2015

12. C.M. Mirioiu, **M.M. Stnescu**, D. Bolcu, C.O. Burada, V. Roca, *Experimental determinations of the eigenmodes for composite bars made with carbon and Kevlar carbon fibers*, Modern Technologies in Industrial Engineering (ModTech2015), IOP Publishing, IOP Conf. Series: Materials Science and Engineering, 95, (2015) 012005, 6 p., WOS:000365128900005 [doi:10.1088/1757-899X/95/1/012005](https://doi.org/10.1088/1757-899X/95/1/012005) (**ISI journal**).

2014

13. C.M. Mirioiu, D. Bolcu, **M.M. Stnescu**, R. Vlcu, D. Ilincioiu, *A comparison of composite bars against metallic bars from the mass per unit length point of view*, Key Engineering Materials, Vol. 601, 2014, p. 58-61, published by Trans Tech Publications, Switzerland, WOS:000343792400014 [doi: 104028/www.scientific.net/601.58](https://doi.org/10.104028/www.scientific.net/601.58) (**ISI journal**).

2012

14. **M.M. Stnescu**, D. Bolcu, D. Gh. Bagnaru, C.M. Mirioiu, I. Ciuca, *The vibratory behavior of a lathe with continuous variator of high speed and dynamic absorber*, Annals of DAAAM & Proceedings, 23(1), 2012, p. 429-432, WOS:000392423800099 (**ISI Proceedings**) ISSN 1726-9679, www.daaam.com

2009

15. **M.M. Stnescu**, A. Chelu, Gh. Nanu, D. Gh. Bgnaru, D. Bolcu, P. Cua, *Influence of kinematic parameters on the deterministic vibrations of the viscoelastic linear connecting rod, part of a rod lug mechanism*, Annals of DAAAM & Proceedings, 20(1), 2009, p. 837-839, WOS:000282335600419 (**ISI Proceedings**) ISSN 1726-9679, www.daaam.com
16. D. Gh. Bgnaru, M.A. Grozea, Gh. Nanu, D. Bolcu, **M.M. Stnescu**, P. Cua, *Influence of kinematic parameters on the deterministic vibrations of the linear-elastic connecting rod, component of a rod lug mechanism*, Annals of DAAAM & Proceedings, 20(1), 2009, p. 835-837, WOS:000282335600418 (**ISI Proceedings**) ISSN 1726-9679, www.daaam.com
17. D. Gh. Bgnaru, A. Hadr, S. Grigora, D. Bolcu, **M.M. Stnescu**, P. Cua, *The vibrations influence on the field of accelerations of the linear-elastic connecting rod of a mechanism connecting rod lug*, Annals of DAAAM & Proceedings, 20(1), 2009, p. 833-835, WOS:000282335600417 (**ISI Proceedings**) ISSN 1726-9679, www.daaam.com

2008

18. Marin C., Hadar A., Grigoras S., Marin A., **Stnescu M.M.**, *Step function method used in calculating continuous footing foundation placed of elastic and discrete soil*, Annals of

2. Projects of innovation-development-research, obtained through competition

2.1. National projects

1. The CNCSIS A type Grant (2006 – 2008): *Bulk polluting wastes biosolubilization that contain copper, using bacteria type of **Thiobacillus** for recycling and preventing the medium with hard metals*; Grant Director: Lecturer Dr. Eng. Ivănuș Radu Cristian; Code CNCSIS: 201; The project function: Scientific Researcher.
2. M.E.C.T. through C.N.M.P., PN-CDI-II (2007 – 2011), Program 4- Partnerships in priority domains, 7th Domain – Materials, processes, and innovative products, PC Project type; Project title: *Innovative technologies for making some permalloy products competitive for export – **PERMATECH***; Project No. 71-059/2007; Coordinating organization: University Politehnica of Bucharest through Research and Expertise Center of Special Materials; Project Director: Prof. Dr. Eng. Șaban Rami; Function within the project: Scientific Researcher; Project value 2.181.600 Lei.
3. M.E.C.T. through C.N.M.P., PN-CDI-II (2007 – 2011), Program 4- Partnerships in priority domains, Domain 7- Materials, processes, and innovative products, PC Project Type; Project title: *Multifunctional materials with bioactive effect destined for implantology – **MULTIBIOMAT***; Project No. 71-080/2007; Coordination Organization: Politehnica University of Bucarest through Research and Expertise Center of Special Materials; Project Director: Prof. Dr. Eng. Ciucă Ion; Function within the project: Scientific Responsible of the Project; Project value: 2.256.238 Lei.
4. A.N.C.S. and A.M.C.S.I.T.-Politehnica Bucharest, PN-CDI-II (2007 – 2009, PDT), Program 5 – Innovation, Module 1 – Products Development – Systems; Project title: *Integrated technologies for making some biocompatible complex materials – **BIOCOMPLEXMAT***; Project financed by association with the Commercial Society SC Metalurgical Manufacturings Prod. SRL; Project No. 115/2007; Project Director: Eng. Nedelcu Ioan; Function within the project: Scientific Researcher; Project value: 2.501.039 Lei.
5. M.M.F.E.Ș. and F.S.E., CCI 2007RO051PO001 (2009 – 2011), Project ID No. 7263, ***EUROCOMP**– Complementary prepaering centre for pre-university teachers for adapting the didactic activities to the new european education requests*; Project Manager: Lecturer PhD. Bucur Liliana Maria; Function within the project: Interdisciplinary and trans-disciplinary courses adviser; Project value: 1.844.025 Lei.
6. M.E.C.I. and F.S.E., POSDRU Contract /2/12/S/3, Sectorial Operational Program for Human Resources Development (2007 – 2013); Strategical Projects for Higher Education, Priority axis 1 – Professional education and forming for supporting the economical increase and society development based on knowledge; Intervention major domain – 1.2 Quality in superior education; National strategy of CDI 2007-2013; Project title: ***Quality and Leadership for Romanian Superior Education***; project financed through CNCSIS –UEFISCSU; Function within the project: collaborator.
7. Research contract with the economical agents fulfilled between University of Craiova and S.C Hidroserv SA Slatina, No. 536/28.07.2009; Project duration 2009 – 2011; Project title: *Researches regarding the industrial oils pollution degree from the high power convertors where the Hidroserv Slatina assures the maintenance*; Beneficiary S.C. Hidroserv SA Slatina; Project Director: Associate Professor Dr. Eng. Degeratu Sonia; Function withing the project: Scientific Researcher; Project value: 14.000 Euro.
8. Research contract with the economical agents fulfilled between University of Craiova and S.C. VALVIO PROD SRL Craiova, No. 55C/09.12.2009; Project duration 2009 – 2013; Project title: *Researches regarding the behaviour of the composite material used for the pavings execution*

made by SC VALVIO PROD SRL; Beneficiary S.C. VALVIO PROD SRL Craiova; Project Director: Associate Professor Dr. Eng. Degeratu Sonia; Function within the project: Scientific Researcher; Project value: 50.000 Lei.

9. Research contract with the economical agents fulfilled between University Politehnica of Bucharest through Research and Expertise Centre of Special Materials and S.C. LAROMET SA Bucharest, No. 179/20.11.2012; Project duration **2012 – 2015**; Project title: *Special materials for manufacturing the materials used for copper and brass extrusion*; Project Director: Prof. Dr. Eng. Ciucă Ion; Function within the project: Scientific Responsible of the Project; Project value: 75.000 Lei (without VAT).

2.2. International project

1. A.N.C.S., PN II: CAPACITIES, Module III, Bilaterally project, Tukey, Priority domain – 7. Materials, processes and innovative products, 7.3. Technologies and high mechanical precision products and mechatronic systems (**2010 – 2011**); Recording No. ANCS: 1–396 / 13.10.2010 (Additional act No. 1 at the Financing Contract for Projects Executions No. 396 / 27.04.2010); Project title: *Development of biomimetic design methodology with reserve engineering in cognitive recognition and control of biomimetic robots*;
 - Romanian Partner – Prof. Dr. Eng. Nicu George BÎZDOACĂ, University of Craiova;
 - Turkish Partner – Prof. Dr. Abdülkadir ERDEN, Atılım University – Ankara.The function within the project: researcher; Project value: 51.576 Lei.

3. Patents

1. State Office for Inventions and Trademarks - OSIM Bucharest; Patent Number: **RO 130837 B1**; “Process for making a composite material with matrix based on epoxy resin and reinforced with Schoenoplectus lacustris”, published in **RO-BOPI 3/2018 from date 30.03.2018**; Inventors: Mirițoiu Cosmin Mihai, Burada Cristian Oliviu, Stănescu Marius Marinel, Bolcu Dumitru.
2. State Office for Inventions and Trademarks - OSIM Bucharest; Patent Number: **RO 130755 B1**; “Process for making a composite material with matrix based on epoxy resin and reinforced with Typha Latifolia”, published in **RO-BOPI 3/2018 from date 30.03.2018**; Inventors: Burada Cristian Oliviu, Bolcu Dumitru, Stănescu Marius Marinel, Mirițoiu Cosmin Mihai.

Stănescu I. Marius Marinel