

## Lista lucrărilor științifice publicate

### A. ARTICOLE PUBLICATE

#### a. Articole indexate ISI Web of Science

1. **Plescan, C.**; Contiu, M.; Dosa, A., „A study of a tensegrity structure for a footbridge”, Conference: 3rd China-Romania Science and Technology Seminar (CRSTS) Location: Transilvania Univ, Brasov, ROMANIA Date: APR 24-27, 2018, DOI: 10.1088/1757-899X/399/1/012044, <https://iopscience.iop.org/article/10.1088/1757-899X/399/1/012044/pdf>
2. **Costel Pleșcan**; Mariana D. Stanciu; Matyas Szasz, „The Effect of Internal Pressure on Radial Strain of Steel Pipe Subjected to Monotonic and Cyclic Loading”, Published in: Materials 2019, Volume 12, Issue 18, 2849, Materials 2019, 12(18), 2849; <https://doi.org/10.3390/ma12182849> , FI= 3,748, SRI 1,4
3. Camelia CERBU, Marius Florin BOTIS, Zhen HUANG, **Costel PLEȘCAN**, Temperature effects on the mechanical properties of hybrid composites reinforced with vegetable and glass fibers, MECMAT\_2020\_103538, Mechanics of Materials ISSN 0167-6636, FI= 4.137, SRI: 1.954, <https://doi.org/10.1016/j.mechmat.2020.103538>
4. **Costel Pleșcan**; Elena-Loredana Pleșcan; Mariana D. Stanciu; Marius Botiș; Daniel Taus, Sensitivity Analysis of Rigid Pavement Design Based on Semi-Empirical Methods: Romanian Case Study, Symmetry 2021, 13(2), 168; <https://doi.org/10.3390/sym13020168> , FI=2,645, SRI=0,579
5. **Costel PLEȘCAN**, M Barta, SG Maxineasa, Elena-Loredana Pleșcan, Life Cycle Assessment of Concrete Pavement Rehabilitation: A Romanian Case Study, APPLIED SCIENCES-BASEL Volume 12, Issue 4, 1769, <https://doi.org/10.3390/app12041769> , FI=2,838, SRI=0,93
6. Bulmez, AM; Ciofoaia, V; Nastase, G; Dragomir, G; Brezeanu, AI; Iordan, NF; Bolocan, SI; Fratu, M; **Plescan, C**; Cazacu, CE; Deaconu, O, Numerical Investigation on Auxiliary Heat Sources for Horizontal Ground Heat Exchangers, Buildings Volume12, Issue 8, <https://doi.org/10.3390/buildings12081259> , FI=3,324, SRI=0,933

#### b. Articole publicate publicate în reviste BDI

1. **C., Pleșcan, A., Rotaru**, ASPECTS CONCERNING THE IMPROVEMENT OF SOILS AGAINST LIQUEFACTION/ Lurare publicată în reviste BDI – Buletinul Institutului Politehnic IAȘI, Sectiunea Constructii și Arhitectura, Tomul: VI (LX), Fascicolul: 3, 2010, ISSN: 1224-3884 (p)/ ISSN: 2068-4762 (e), pag. 31-45, <http://www.bipcons.ce.tuiasi.ro/Archive/188.pdf>
2. C. S. Iriciuc, N.I. Gălușcă, **C. Pleșcan**, Steelworks slag aggregate in asphalt mixtures, Bulletin of the Transilvania University of Brașov • Vol. 11 (60) Special Issue No. 1 - 2018 Series I: Engineering Sciences, pp. 267,
3. S C Iriciuc, N I Gălușcă and **C. Pleșcan**, Establishing workability asphalt mixtures, International Conference CIBv2019 Civil Engineering and Building Service, IOP Conf. Series: Materials Science and Engineering 789 (2020) 012029, DOI:10.1088/1757-899X/789/1/012029, <https://iopscience.iop.org/article/10.1088/1757-899X/789/1/012029>

4. D-M Pohrib, D Platică, P Turcanu and **C. Pleșcan**, Road embankment for bridge accessing rural area, International Conference CIBv2019 Civil Engineering and Building Services, IOP Conf. Series: Materials Science and Engineering 789 (2020) 012051, DOI:10.1088/1757-899X/789/1/012051, <https://iopscience.iop.org/article/10.1088/1757-899X/789/1/012051>
5. I. Bucur, P. Axinte, **C. Pleșcan**, A. Șerban, Intelligent buildings for energy consumption management, International Conference CIBv2021 Civil Engineering and Building Service, IOP Conf. Series: Materials Science and Engineering 1138 012006, <https://doi.org/10.1088/1757-899X/1138/1/012006>
6. I. Bucur, P. Axinte, **C. Pleșcan**, A. Șerban, Renewable energy sources potential evaluation in Romania, Conference CIBv2021 Civil Engineering and Building Service, IOP Conf. Series: Materials Science and Engineering 1138 012007, <https://iopscience.iop.org/article/10.1088/1757-899X/1138/1/012007>
7. A. M. Bulmez, V. Ciofoaia, **C. Pleșcan**, S. I. Bolocan, A. Șerban, Multi-criteria optimization for a residential horizontal ground heat exchanger, International Conference CIBv2021 Civil Engineering and Building Service, IOP Conf. Series: Materials Science and Engineering. 1138 012010, <https://iopscience.iop.org/article/10.1088/1757-899X/1138/1/012010>
8. Marius BOTIȘ, **Costel PLEȘCAN** - Matlab Program for Determining the Inertia Characteristics of Flat Surfaces with Monte Carlo Algorithms, The Annals of "Dunarea de Jos" University of Galati, fascicle IX. Metallurgy and Materials Science, No. 2 - 2022, ISSN 2668-4748; e-ISSN 2668-4756, pag. 22, <https://doi.org/10.35219/mms.2022.2.04>
9. Marius BOTIȘ, **Costel PLEȘCAN** - Increase the Load of Loss of Stability for the Pillars of Large-Opening Halls, THE ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI FASCICLE IX. METALLURGY AND MATERIALS SCIENCE No . 3 - 2022, ISSN 2668-4748; e-ISSN 2668-4756, pag. 29, <https://doi.org/10.35219/mms.2022.3.06>
10. Marius BOTIȘ, **Costel PLEȘCAN** - The Probabilistic Method for Determination the Inertia Characteristics of 3D Bodies with Monte Carlo Algorithms, THE ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI FASCICLE IX. METALLURGY AND MATERIALS SCIENCE No . 3 - 2022, ISSN 2668-4748; e-ISSN 2668-4756, pag. 33, <https://doi.org/10.35219/mms.2022.3.07>
11. Marius BOTIȘ, **Costel PLEȘCAN**, Determination of the Optimal Thickness of the Floors of Multi-storey Concrete Structures with Modal Analysis, [https://link.springer.com/chapter/10.1007/978-3-031-22375-4\\_20](https://link.springer.com/chapter/10.1007/978-3-031-22375-4_20)

**c. Articole publicate în reviste recunoscute de CNCSIS- categoria B**

1. E-L. Plescan, **C. Plescan** - Implementation of mechanistic empirical pavement design guide Me-Pdg in Romania, Proceedings of The International Scientific Conference CIBv 2014, ISSN 2285-7656 ISSN-L 2248-7656, pp. 345-350
2. Abrudan, **C. Pleșcan**, Land slide stabilization for a working platform which occurred during excavation in Cluj-Napoca, Proceedings of The International Scientific Conference CIBv 2015, ISSN 2285-7656 ISSN-L 2248-7648, pp. 179
3. M. Dumitrescu, V. Ștefan, **C. Pleșcan**, C. I. Bobe, G. M. Dragne, C. N. Badea, G. Dumitru, Magnetic sustentation applications on the railway traction for high speed maglev trains, Proceedings of The International Scientific Conference CIBv 2015, ISSN 2285-7656 ISSN-L 2248-7648, pp. 233



4. P. Nicolae, **C. Pleșcan**, I. Szentes, M. Bolănu, C. Sima, D. Mitu, G. Dumitru, New technologies of gauge variation for wheelset vehicles crossing, Proceedings of The International Scientific Conference CIBv 2015, ISSN 2285-7656 ISSN-L 2248-7648, pp. 245
5. E-L. Pleșcan, **C. Pleșcan**, Asphalt pavement recycling, Proceedings of The International Scientific Conference CIBv 2015, ISSN 2285-7656 ISSN-L 2248-7648, pp. 265
6. E-L. Pleșcan, **C. Pleșcan**, - Roads Winter Maintenance Management System (WMMS), Proceedings of The International Scientific Conference CIBv 2015, ISSN 2285-7656 ISSN-L 2248-7648, pp. 271
7. V. Ștefan, I. Sebeșan, **C. Pleșcan**, L. Blaga, M. Carabineanu, G. A. Badea, G. Dumitru, The vertical vibrations study of a motor bogies for railway vehicles, Proceedings of The International Scientific Conference CIBv 2015, ISSN 2285-7656 ISSN-L 2248-7648, pp. 287
8. I. Abrudan, **C. Pleșcan**, Consolidating newly built motorways – a costly affair case study, Bulletin of the Transilvania University of Brașov • Vol. 9 (58) - 2016 Series I: Railways, Roads and Bridges Section, ISSN 2065-2127 (CD-ROM), pp. 167
9. I. Abrudan, **C. Pleșcan**, Stability of slopes approached as an integrated system, Bulletin of the Transilvania University of Brașov • Vol. 9 (58) - 2016 Series I: Railways, Roads and Bridges Section, ISSN 2065-2127 (CD-ROM), pp. 173
10. D. M. Balint, **C. Pleșcan**, E. Crăciun Boje, M. Bolănu, C. N. Badea, G. Dumitru, Study on timetable kinematics in plotting of train traffic graphics, Bulletin of the Transilvania University of Brașov • Vol. 10 (59) No. 1 - 2017 Series I: Engineering Sciences, pp. 211
11. L. Blaga, **C. Pleșcan**, A. Badea, M. Bolănu, D. M. Balint, C. N. Badea, G. Dumitru, Study on safety against derailment specific to diesel locomotives Class 64, Series OF 621 EGM, Bulletin of the Transilvania University of Brașov • Vol. 10 (59) No. 1 - 2017 Series I: Engineering Sciences, pp. 221
12. M. M. Călin, L. Blaga, **C. Pleșcan**, G. Micu, G. Dae, G. Dumitru, Auditing the railway sector and risk assessment, Bulletin of the Transilvania University of Brașov • Vol. 10 (59) No. 1 - 2017 Series I: Engineering Sciences, pp. 247
13. I. Abrudan, **C. Pleșcan**, C. Chifor. Case study: consolidation of the A10 SEBEȘ - TURDA motorway on the sliding slope section between KM 62 + 180 - KM 62 + 46, Bulletin of the Transilvania University of Brașov • Vol. 11 (60) Special Issue No. 1 - 2018 Series I: Engineering Sciences, pp. 245
14. **Costel Pleșcan**, Elena-Loredana Pleșcan, The influence of romans culture on the construction of roads and bridges in Dacia, VIth SWS International Scientific Conferences on SOCIAL SCIENCES – (ISCSS) AND ARTS & HUMANITIES (ISCAH) 22-28/08/2020, Bulgaria-Albena, DOI: 10.5593/sws.iscss.2020.7.1/s09.60
15. **Costel Pleșcan**, Corina Ionela Bănică (Pufu), Claudiu Coman, Elena-Loredana Pleșcan, Mioara Dan, Social anxiety and depression manifested by preadolescents and adolescents isolated during the pandemic, VIIIth SWS International Scientific Conferences on SOCIAL SCIENCES – (ISCSS) AND ARTS & HUMANITIES (ISCAH) 21-30.08.2021, Bulgaria-Albena, ISBN: 978-3-903438-00-2, ISSN: 2682-9959 DOI: 10.35603/sws.iscss.2021/s07.25
16. **Costel Pleșcan**, Corina Ionela Bănică (Pufu), Claudiu Coman, Mioara Dan, Post-Pandemic virtual communication, a link in overcoming social anxiety, , IXth SWS International Scientific Conferences on SOCIAL SCIENCES – (ISCSS) AND ARTS & HUMANITIES (ISCAH) 24-28.08.2022, Bulgaria-Albena,



## **B. VOLUMELE SIMPOZIOANELOR**

- 1) Nicoleta Peșehenov, Costel Pleșcan, Cristian Ciobanu, Evaluări în Construcții, ISBN 978-973-8955-83-7, Editura Societății "Matei - Teiu Botez", 2010
- 2) Rodian Scînteie, Pleșcan Costel, New Conceptual Concepts în Civil Engineering, ISBN 978-973-8955-87-5, Editura Societății "Matei - Teiu Botez", 2010
- 3) Rodian Scînteie, Pleșcan Costel, Technology and innovation în transport infrastructure, ISBN 978-606-582-000-5, Editura Societății "Matei - Teiu Botez", 2010

## **C. CARTI**

- 1) Constantin Ionescu, Pleșcan Costel, Analiza dinamică a sistemelor mixte, Editura Societății Academice "Matei - Teiu Botez", Iași 2008, ISBN 978-973-8955-58-5, pp. 157
- 2) Pleșcan Costel, Evaluarea etapei de realizare a sistemului "POD-OBSTACOL-DRUM", Editura Societății Academice "Matei-Teiu Botez", Iași 2013, ISBN 978-606-582-035-7, pp.242

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