

Nume Prenume: Turnea Marius-Alexandru

Gradul didactic: Șef Lucrări

Instituția unde este titular: Universitatea de Medicină și Farmacie "Grigore T Popa" Iași

Facultatea: de Bioinginerie Medicală

Departamentul: Științe Biomedicale

LISTĂ de LUCRĂRI

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Teza de doctorat

Studiul unor modele matematice pentru tranziții de fază

Coordonator științific: Prof. Dr. Postelnicu Tiberiu

Anul înscrierii/Data susținerii/Ordin Ministru: Ordinului Ministerului Educației și Cercetării Nr. 3184/07.02.2005

Domeniul: Matematică

Teza abilitare

Contribuții privind folosirea tehnicilor numerice în modelarea, simularea și optimizarea proceselor din inginerie mecanică, mecatronică și bioinginerie

Anul înscrierii/Data susținerii/Ordin Ministru: Ordinul Ministrului Educației nr.4623/22.07.2025

Domeniul: Inginerie mecanică

B. Cărți/Capitole de cărți

1. **M. Turnea**, M. Ilea, A. Gheorghită, *Modelarea matematică a virusului hepatitei tip B* (note de curs), Editura „Gr. T. Popa” Iași, ISBN 978-630-345-064-3, 2025
2. M. Ilea, **M. Turnea**, *Teste pentru admitere MATEMATICĂ 2025*, Editura „Gr. T. Popa” Iași, ISBN 978-630-345-060-5, 2025
3. **M. Turnea**, A. Gheorghită, M. Ilea, *Modelare și Simulare în Bioinginerie*, Editura „Gr. T. Popa” Iași, ISBN 978-630-345-021-6, 2024
4. **M. Turnea**, M. Rotariu, A. Gheorghită, *Modelarea, simularea și optimizarea comportării ansamblurilor de tip arbore principal cu rulmenții la turații mari folosind tehnici numerice*, Ed. Pim, ISBN 978-606-13-8653-6, 2024
5. **M. Turnea**, M. Ilea, A. Gheorghită, *Modele matematice pentru tranziții de fază cu aplicații în bioinginerie*, Ed. Pim, ISBN 978-606-13-8691-8, 2024

6. P. Postolache, A. Gheorghiuță, **M. Turnea**, R. Gatman, *Dispozitive medicale în medicină internă*, Editura "Gr. T. Popa" Iași, ISBN: 978-630-345-020-9, 2024
7. M. Ilea, M. Muncilianu, **M. Turnea**, D. Arotaritei, *Matematici elementare cu aplicații în științele vieții*, Editura "Gr. T. Popa" Iași, ISBN: 978-606-544-945-6, 2024
8. M. Ilea, D. Andrițoi, **M. Turnea**, *Subiecte de Matematică date la admiterile și simulările la Facultatea De Bioinginerie Medicală între anii 2016-2023*, Editura "Gr. T. Popa" Iași, ISBN: 978-606-544-969-5, 2024
9. M. Ilea, **M. Turnea**, D. Arotaritei, *Matematici aplicate în economie: teste grilă rezolvate*, Editura "Gr. T. Popa" Iași, ISBN 978-606-544-888-9, 2023
10. A.C. Ionițe, G. Rață, **M. Turnea**, D. Arotăritei, M. Rotariu, *Aspecte teoretice și practice privind recuperarea sindromului pubalgic*, Vol.II, Ed. Risoprint, Cluj-Napoca, ISBN: 978-973-53-3054-5, 2023
11. M. Ilea, **M. Turnea**, *Matematică. Teste pentru admitere 2023*, Editura "Gr. T. Popa" Iași, ISBN 978-606-544-878-0, 2023
12. M. Ilea, **M. Turnea**, *Matematică. Teste pentru admitere*, Editura "Gr.T.Popa" Iași, ISBN 978-606-544- 819-3, 2022
13. M. Ilea, D. Arotăritei, **M. Turnea**, M. Rotariu, *Ecuatii diferențiale liniare de ordin superior cu coeficienți constanți. Sinteze teoretice și aplicații*, Editura „Gr. T. Popa” Iași, ISBN 978-606-544-812-4, 2022
14. M. Ilea, **M. Turnea**, *Matematică. Teste pentru admitere*, Editura "Gr. T. Popa" Iași, ISBN 978-606-544- 613-7, 2021
15. M. Ilea, **M. Turnea**, D. Arotaritei, M. Rotariu, *Metode de optimizare cu aplicații în chimioterapia cancerului*, Editura „Gr. T. Popa” Iași, ISBN 978-606-544- 500-0, 2021
16. A.C. Ionițe, G. Rață, **M. Turnea**, D. Arotăritei, M. Rotariu, *Aspecte teoretice și practice privind recuperarea sindromului pubalgic*, Vol.1, Ed. Risoprint, Cluj-Napoca, ISBN: 978-973-53-2685-2, 2021
17. M. Ilea, **M. Turnea**, *Matematică. Teste pentru admitere*, Editura "Gr. T. Popa" Iași, ISBN 978-606-544- 682-3, 2020
18. M. Ilea, **M. Turnea**, D. Arotăritei, M. Rotariu, *Sisteme de ecuații diferențiale cu coeficienți constanți, Breviar teoretic și probleme*, Editura „Gr. T. Popa” Iași, ISBN 978-606-544-673-1, 2020
19. M. Ilea, **M. Turnea**, *Matematică. Teste pentru admitere 2019*, Editura "Gr. T. Popa" Iași, ISBN: 978-606-544-581-9, 2019
20. M. Ilea, **M. Turnea**, D. Arotaritei, M. Rotariu, *Aplicații ale calculului matriceal în algebra liniară*, Editura "Gr. T. Popa" Iași, ISBN: 978-606-544-563-5, 2019
21. F. Fulop, M. Gafitanu, **M. Turnea**, M. Rotariu, D. Arotaritei, F. Zoltan, *Cercetări privind optimizarea performanțelor cupă-proteză-bont cu considerarea aspectelor tribologice*, University Press Târgu-Mureș, ISBN 978-973-169-575-4, 2019
22. M. Ilea, **M. Turnea**, D. Arotaritei, M. Rotariu, *Sisteme de Ecuații Diferențiale cu Aplicații în științele Biomedicale*, Editura "Gr. T. Popa", UMF Iasi, ISBN: 978-606-544-514-7, 2018
23. M. Ilea, **M. Turnea**, *Matematica – teste pentru admitere 2018*, Editura Gr. T. Popa din Iasi , ISBN 978-606-544-528-4, 2018
24. M. Ilea, **M. Turnea**, *Matematică- Culegere de teste pentru admitere*, Editura „Gr. T. Popa” Iași, ISBN 978-606-544-433-1, 2017
25. M. Rotariu, **M. Turnea**, D. Arotaritei, M. Ilea, *Metode de evaluare și simulare a evoluției complexului bont-exoproteză din perspectiva kinetoterapiei*, Editura „Gr. T. Popa” Iași, ISBN: 978-606-544-447-8, 2017
26. M. Ilea, **M. Turnea**, *Matematică- Culegere de teste pentru admitere*, Editura „Gr. T. Popa” Iași, ISBN 978-606-544-356-3, 2016
27. M. Ilea, **M. Turnea**, D. Arotaritei, M. Popescu, *Ecuatii diferențiale integrabile prin cuadraturi cu aplicații în științele biomedicale*, Editura „Gr. T. Popa” Iași, ISBN 978-606-544-433-1, 2016
28. M. Ilea, **M. Turnea**, D. Arotaritei, M. Popescu, *Ecuatii diferențiale cu variabile separabile cu aplicații în științele biomedicale*, Editura „Gr. T. Popa” Iași, ISBN: 978-606-544-293-1, 2015

29. M. Ilea, **M. Turnea**, D. Arotaritei, M. Popescu, *Ecuatii diferențiale ordinare cu aplicații în bioinginerie și medicină*, Editura „Gr. T. Popa” Iași, ISBN 978-606-544-228-3, 2014.
30. **M. Turnea**, M. Ilea, *Matematică- Culegere de teste pentru admitere*, Editura „Gr. T. Popa” Iași, ISBN 978-973-7682-48-2, 2008
31. **M. Turnea**, M. Ilea, *Matematică-Culegere de teste pentru admitere*, Editura „Gr. T. Popa” Iași, ISBN 978-973-7906-93-9, 2006
32. G. Georgescu, **M. Turnea**, M. Ilea, *Matematică -Culegere de teste pentru admitere*, Editura „Gr.T.Popa” Iași, ISBN: 973-7906-38-1, 2003
33. M. Ilea, **M. Turnea**, *Elemente de algebră liniară și geometrie analitică*, Ed. Venus, ISBN:973-8174-57-0, 2002

CAPITOLE CĂRȚI

1. H-N. Teodorescu. M. Craus, M. Turnea, s.a, *Scientific and Educational Applications GRID”, cap. Parallelization of some Spatial Epidemic Models*, Editura Politehniun, ISBN 978-973-621-236-9, 2008
2. D. Cascaval, A-I Galaction, M. Turnea, s.a. *Biotehnologia între știință și artă, cap. Analiză statistică și modelare în biotehnologie*, Editura Venus, Iași, ISBN 978-973-756-052-0, 2007

C. Articole cotate/indexate in baze de date internaționale Web of Science (ISI/Scopus)

C.1 Articole cotate în baze de date internaționale WOS

1. **M Turnea**, C Mucileanu, I Duduca, M Rotariu, *Mechanical Modeling of the Premolar: Numerical Analysis of Stress Distribution Under Masticatory Forces*, Applied Sciences-Basel, Vol.15(10), Article Number 5371, 2025, DOI10.3390/app15105371 (IF 2.5-Q2)
<https://www.mdpi.com/2076-3417/15/10/5371>
2. C. Munteanu, AI Galaction, G Onose, **M. Turnea**, M Rotariu, *Hydrogen Sulfide (H₂S- or H₂Sn-Polysulfides) in Synaptic Plasticity: Modulation of NMDA Receptors and Neurotransmitter Release in Learning and Memory*, International Journal of Molecular Science, Vol.26(7), Article Number 3131, 2025, DOI10.3390/ijms26073131 (autor corespondent), (IF 5.7 Q1)
<https://pubmed.ncbi.nlm.nih.gov/40243915/>
3. **M. Turnea**, A.Gheorghita, I. Duduca, M. Rotariu, *A New Approach for Quantification of Finger Angles with Applications in Rehabilitation and Medical Assessment*, Balneo and PRM Research Journal, Vol.16(1), Article Number 766, 2025, Full Text DOI 10.12680/balneo.2025.767 (IF 1.1- Q3)
<https://bioclima.ro/Balneo767.pdf>
4. C. Munteanu, AI Galaction, G. Onose, **M. Turnea**, M. Rotariu, *The Janus Face of Oxidative Stress and Hydrogen Sulfide: Insights into Neurodegenerative Disease Pathogenesis*, ANTIOXIDANTS, Vol.14(3), Article Number 360, 2025 DOI10.3390/antiox14030360 (IF 6-Q1) Autor corespondent
<https://www.mdpi.com/2076-3921/14/3/360>
5. C. Munteanu,AI Galaction, G. Onose, **M. Turnea**, M. Rotariu, *Harnessing Gasotransmitters to Combat Age-Related Oxidative Stress in Smooth Muscle and Endothelial Cells*, PHARMACEUTICALS, Vol.18(13), Article number 344, 2025, DOI10.3390/ph18030344 (IF 4.3-Q2) Autor corespondent
<https://www.mdpi.com/1424-8247/18/3/344>
6. C. Munteanu, G. Onose, M. Rotariu, M. Postaru, **M. Turnea**, AI Galaction, *Role of Microbiota-Derived Hydrogen Sulfide (H₂S) in Modulating the Gut-Brain Axis: Implications for Alzheimer's and Parkinson's*

- Disease Pathogenesis*, BIOMEDICINES, Vol.12(12), Article Number 2670, 2024, DOI10.3390/biomedicines12122670 (IF 3.9-Q2)
<https://www.mdpi.com/2227-9059/12/12/2670>
7. C. Munteanu, G. Onose, M. Postaru, **M Turnea**, M Rotariu, AI Galaction, *Hydrogen Sulfide and Gut Microbiota: Their Synergistic Role in Modulating Sirtuin Activity and Potential Therapeutic Implications for Neurodegenerative Diseases*, PHARMACEUTICALS, Vol. 17(11), Article Number 1480, 2024 DOI10.3390/ph17111480 (IF 4.8-Q2)
<https://www.mdpi.com/1424-8247/17/11/1480>
 8. C. Munteanu, AI Galaction, M Postaru, M Rotariu, **M Turnea**, CD Blendea, *Hydrogen Sulfide Modulation of Matrix Metalloproteinases and CD147/EMMPRIN: Mechanistic Pathways and Impact on Atherosclerosis Progression*, BIOMEDICINES, Vol.12(9), Article Number 1951, DOI10.3390/biomedicines12091951, 2024 (IF 3.9-Q2)
<https://pubmed.ncbi.nlm.nih.gov/39335465/>
 9. C. Munteanu, AI Galaction, **M. Turnea**, CD Blendea, M. Rotariu, M Postaru, *Redox Homeostasis, Gut Microbiota, and Epigenetics in Neurodegenerative Diseases: A Systematic Review*, Antioxidants, Vol.13(9), Article Number 1062, 2024 DOI10.3390/antiox13091062 (IF 6.0-Q1)
<https://www.mdpi.com/2076-3921/13/9/1062>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:001323288400001>
 10. C. Mucileanu, AC. Spiridon, **M. Turnea**, C. Munteanu, M. Rotariu, I. Condurache, *Kinetic methods used in the postoperative recovery of a patient diagnosed with a puncture wound and foreign body retention in the middle third of the posterior face of the left forearm*, BALNEO AND PRM RESEARCH JOURNAL, Vol.15(2), Article Number 700, 2024 DOI10.12680/balneo.2024.700 (IF 0.7-Q4)
<https://bioclima.ro/Balneo700.pdf>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:001268347000028>
 11. **M. Turnea**, A. Gheorghita, M. Rotariu, M Ilea, D. Arotaritei, I. Duduca, I Condurache, *A Deep Learning Approach for Classification of Physiotherapy Exercises Using Segmentation of Techniques*, BALNEO AND PRM RESEARCH JOURNAL, Vol.15(2), Article Number 708, 2024 DOI10.12680/balneo.2024.708 (IF 0.7-Q4)
<https://bioclima.ro/Balneo708.pdf>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:001268347000010>
 12. C. Mucileanu, A. Agapi, **M. Turnea**, M. Rotariu, I. Condurache, *Patient recovery after Lisfranc injury*, BALNEO AND PRM RESEARCH JOURNAL, Vol.15, Issue1, Article number: 667, 2024, DOI10.12680/balneo.2024.667 (IF 0.7- Q4)
<https://bioclima.ro/Balneo667.pdf>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:001243689500016>
 13. C. Munteanu, **M. Turnea**, M. Rotariu, *Hydrogen Sulfide: An Emerging Regulator of Oxidative Stress and Cellular Homeostasis-A Comprehensive One-Year Review*, ANTIOXIDANTS, Vol.12, Issue, 9, 2023, DOI10.3390/antiox12091737(IF 6.0-Q1) *Autor correspondent*
<https://www.mdpi.com/2076-3921/12/9/1737>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:001079673900001>
 14. MS. Pop, DC. Cheregi, G. Onose, C. Munteanu, C Popescu, M. Rotariu, **M Turnea**, G. Dogaru, EV. Ionescu, D. Oprea, MG. Iliescu, M. Minea, LE Stanciu, LSC Silisteanu, C. Oprea, *Exploring the Potential Benefits of Natural Calcium-Rich Mineral Waters for Health and Wellness: A Systematic Review*, NUTRIENTS, Vol.15(4), 2023, DOI10.3390/nu15143126 (IF 4.8-Q1)
<https://www.mdpi.com/2072-6643/15/14/3126>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:001036668500001>
 15. CG. Viscotel, M. Rotariu, **M. Turnea**, D. Arotaritei, C. Mereuta, M. Ilea, I. Condurache, A. Gheorghita, *Mathematical models applied to the prediction of doping in male athletes*, JOURNAL OF MENS HEALTH, Vol.19(7), pp.93-100, 2023, DOI10.22514/jomh.2023.061 (IF 0.60-Q4) *Autor correspondent*
<https://oss.jomh.org/files/article/20230731-55/pdf/JOMH2023032202.pdf>

- <https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:001050254000012>
16. C. Munteanu, G. Onose, **M. Turnea**, M. Rotariu, *Cellular and Molecular Homeostatic Microenvironmental imbalances in Osteoarthritis and Rheumatoid Arthritis*, BALNEO AND PRM RESEARCH JOURNAL, Vol.14(2), 2023, DOI10.12680/balneo.2023.564(IF 0.7-Q3) *Autor correspondent*
<https://bioclima.ro/Balneo564.pdf>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:001028799100005>
 17. A. Gheorghita, C. Ionite, M. Rotariu, **M. Turnea**, D. Arotaritei, M. Ilea, I. Condurache, *Study comparing the vibrations recorded by professional and non-professional male athletes in winter sports, skiing vs. snowboarding*, Journal of Mens Health, Vol.19(4), pp. 11-25, 2023, DOI10.22514/jomh.2023.032 (IF 0,60-Q4)
<https://www.jomh.org/articles/10.22514/jomh.2023.032>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:001008831300002>
 18. A.Gheorghita, RF Baci, C Mucileanu, **M Turnea**, M Rotariu, I. Condurache, *Recovery of post-arthrodesis hand function in the interphalan- geal joint- Case presentation*, BALNEO AND PRM RESEARCH JOURNAL, Vol.14(1), 2023, DOI10.12680/balneo.2023.545 (IF 0.7-Q3)
<https://bioclima.ro/Balneo545.pdf>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000974308900014>
 19. D. Arotaritei, M. Rotariu, M. Ilea, **M. Turnea**, C. Ionite, I. Condurache, A. Gheorghita, *Complexity measures, an analysis for electromyography and its possible application to spinal cord injuries*, Signa Vitae Journal, Vol. 19(1), pp. 65-76, 2023, DOI10.22514/sv.2022.031 (IF 1.0-Q4) *Autor correspondent*
<https://oss.signavitae.com/mre-signavitae/article/20230109-280/pdf/SV2021112102.pdf>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000918058300009>
 20. C. Munteanu, M. Rotariu, **M. Turnea**, LG. Tataranu, G. Dogaru, C. Popescu, A. Spinu, I. Andone, EV. Ionescu, RE Tucmeanu, C. Oprea, A. Tucmeanu, CN. Cseppento, SC. Silisteanu, G. Onose, *Lithium Biological Action Mechanisms after Ischemic Stroke*, Life-Basel, Vol.12(11), Article number 1680, 2022, DOI10.3390/life12111680 (IF 3.2-Q2)
<https://www.mdpi.com/2075-1729/12/11/1680>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000882636500001>
 21. C. Munteanu, M. Rotariu, **M. Turnea**, AM Ionescu, C. Popescu, A. Spinu, EV Ionescu, C. Oprea, RE Tucmeanu, LG Tataranu, SZ Silisteanu, G Onose, *Main Cations and Cellular Biology of Traumatic Spinal Cord Injury*, Cells Biology, Vol.11, Issue 16, pp.2-18, DOI10.3390/cells11162503, 2022 (IF 6.0-Q2)
<https://www.mdpi.com/2073-4409/11/16/2503>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000846263400001>
 22. C. Munteanu, M. Rotariu, **M. Turnea**, A. Anghelescu, I. Albadi, G. Dogaru, SC Silisteanu, EV Ionescu, FC Firan, AM Ionescu, C. Oprea, G. Onose, *Topical Reappraisal of Molecular Pharmacological Approaches to Endothelial Dysfunction in Diabetes Mellitus Angiopathy*, Molecular Biology, Vol.44, Issue 8, pp. 3378-3397, DOI10.3390/cimb44080233, 2022 (IF 3.1-Q3)
<https://www.mdpi.com/1467-3045/44/8/233>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000846000500001>
 23. C. Ionite, M. Rotariu, **M Turnea**, M Ilea, I. Condurache, *A Review about the Effectiveness of Virtual Therapy in the Recovery of Patients with Spinal Cord Injuries*, Journal of Mens Health, Vol.18, Issue 8, pp.1-12, DOI10.31083/j.jomh1808160, 2022 (IF 0.7-Q4)
<https://www.jomh.org/articles/10.31083/j.jomh1808160>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000834693700001>
 24. D. Arotaritei, **M. Turnea**, M Rotariu, M Ilea, CG Viscotel, *A quantitative approach for mathematical model of doping in high performance sport*, Balneo and Research Journal, Vol.11, Issue 2, pp.2-6, DOI10.12680/balneo.2022.505, 2022 (IF 0.7-Q4) *Autor correspondent*
<https://bioclima.ro/Balneo505.pdf>

- <https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000822430700001>
25. C. Munteanu, M. Rotariu, **M. Turnea**, G. Dogaru, C. Popescu, A. Spinu, I. Andone, R. Postoiu, EV Ionescu, C. Oprea, I. Albadi, G. Onose, *Recent Advances in Molecular Research on Hydrogen Sulfide (H₂S) Role in Diabetes Mellitus (DM)-A Systematic Review*, International Journal of Molecular Sciences, Vol.23, Issue 12, pp.2-26, DOI10.3390/ijms23126720, 2022 (IF 3.1-Q1)
<https://www.mdpi.com/1422-0067/23/12/6720>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000816238200001>
 26. I. Condurache, G. Filip, P. Ancuta, **M. Turnea**, M Rotariu, C Ionite, *The importance of a multidisciplinary approach to improve the life quality for patients with Parkinson's disease*, Balneo and Research Journal, vol.13, issue1, pp.1-9, DOI10.12680/balneo.2022.494, 2022 (IF 0.7-Q4)
<https://bioclima.ro/Balneo494.pdf>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000773571100018>
 27. I. Condurache, **M. Turnea**, M. Rotariu, *Improving functional and motor capacity through means/resources and methods specific to acvatic activities*, Balneo and Research Journal, Volume12, Issue1, pp. 27-30, DOI10.12680/balneo.2021.414, 2021 (IF 0.7-Q4) Autor correspondent
<https://bioclima.ro/Balneo414.pdf>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000635352300004>
 28. C. Ionite, **M. Turnea**, M. Ilea, M. Rotariu, *Statistical study of changes in motor quality (speed) following a moderate beer consumption*, Journal of Mens Health, Vol.17(3), pp. 110-120, DOI10.31083/jomh.2021.017, 2021 (IF 0.789-Q4)
<https://www.jomh.org/articles/10.31083/jomh.2021.017>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000672805400016>
 29. D. Arotaritei, **M. Turnea**, C. Ionite, M. Rotariu, *Artificial intelligence applied to model the sulphur absorption process - a possible application in cure with sulphurous mineral water*, Balneo Research Journal, Vol.11, No.3, pp. 310–314, DOI10.12680/balneo.2020.358, 2020 (IF 0.7-Q4) Autor correspondent
<https://bioclima.ro/Balneo358.pdf>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000583709900014>
 30. M. Rotariu, G. Rata, **M. Turnea**, C. Ionite, *Effects of Kinetic Means in Recovering Pubalgic Syndrome to football players*, Balneo Research Journal, Vol.11, No.3, pp. 304–309, 2020 (IF 0.7-Q4) Autor correspondent
<https://bioclima.ro/Balneo357.pdf>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000583709900013>
 31. C. Ciobanu, A. Tucaliuc, D. Cascaval, **M. Turnea**, AI Galaction, *Correlation Between Aeration and Ergosterol Production by Yeasts*, Environmental Engineering and Management Journal, Vol.18, Issue12, pp. 2747-2756, 2019 (IF 0.9-Q4)
http://www.eemj.icpm.tuiasi.ro/pdfs/vol18/no12/20_466_Ciobanu_19.pdf
https://www.researchgate.net/publication/339735844_CORRELATION_BETWEEN_AERATION_AND_ERGOSTEROL_PRODUCTION_BY_YEASTS
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000505674800020>
 32. M. Rotariu, **M. Turnea**, C. Ionite, *A different approach to the use of elastic bands in the recovery of lower lumbar discopathy*, Balneo Research Journal, Vol. 10 (3), 213-217, 2019, DOI10.12680/balneo.2019.259 (IF 0.7-Q4) Autor correspondent
<https://bioclima.ro/Balneo259.pdf>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000483324300003>

33. C. Ionite, M. Rotariu, **M. Turnea**, *A statistical study on the recovery of pubalgic syndrome in football players*, Balneo Research Journal, Vol. 10, No. 1, pp. 50-54, 2019, DOI10.12680/balneo.2019.239 (IF 0.2-Q4)
<https://bioclima.ro/Balneo239.pdf>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:0004594801000102019>
34. D. Arotaritei, M. Rotariu, M. Ilea, **M. Turnea**, *A proposal for fuzzy neural network in generalized fuzzy numbers framework using function principle*, Journal of Science and Arts, Vol. 3(48) pp. 765-774, 2019, (IF 0.4-Q3)
https://www.josa.ro/docs/josa_2019_3/c_02_Arotaritei_765-774_10p.pdf
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000488302500022>
35. **M. Turnea**, M. Rotariu, M. Ilea, D. Arotaritei, *Mathematical model of sickness due to altitude decompression using genetic programming. A meta-analysis perspective*, Journal of Science and Arts, Issue 3 (48), pp. 783-792, 2019 (IF 0.4-Q3)
https://www.josa.ro/docs/josa_2019_3/c_04_Turnea_777-786_10p.pdf
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000488302500024>
36. M. Rotariu, **M. Turnea**, M. Ilea, D. Arotaritei, AC Ionite, A. Gheorghita, *Statistical Analysis and Simulation of Orthostatic Position by Means of the Pedometer in Patients with Hyperkyphosis*, Revista de Cercetare si Interventie Sociala, Vol.59, pages: 209-221, 2017 (IF 0.838-Q4)
https://www.rcis.ro/images/documente/rcis59_14.pdf
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000417645600014>
37. D. Arotaritei, M. Ilea, **M. Turnea**, M. Rotariu, R. Filep, M. Popescu, *Measurament of Dynamic Solicited Area, A Proposal of Objective Measure for Comfort Evaluation in Transtibial Prosthetics*, Medical Surgical Journal, Vol. 121(1), pp. 199-205, 2017 (IF 0.1-Q4)
<https://www.revmedchir.ro/index.php/revmedchir/article/view/154/126>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000400595000045>
38. R. Filep, M. Ilea, **M. Turnea**, D. Arotaritei, M. Rotariu, M. Popescu, *Combined Effect of Thermal Load and Mechanical Load in Transtibial Prosthesis. An Empirical Study*, Medical Surgical Journal, Vol.120(1), pp. 186-191, 2016 (IF 0.1-Q4)
<https://pubmed.ncbi.nlm.nih.gov/27125094/>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000404903700046>
39. AI Galaction, L. Kloetzer, B. Mihasan, AC Blaga, **M. Turnea**, D. Cascaval, *Improvement of enzymatic conversion of methylbenzylamine by direct extraction of acetophenone*, Separation Science and Technology, Vol.51(8), pp. 1427-1435, DOI:10.1080/01496395.2016.114629, 2016 (IF 1.106-Q3)
<https://www.tandfonline.com/doi/full/10.1080/01496395.2016.1146297>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000377279500018>
40. RM Matran, AI Galaction, AC Blaga, **M. Turnea**, D. Cascaval, *Distribution of Mixing Efficiency in a Split-Cylinder Gas-Lift Bioreactor with Immobilized Yarrowia Lipolytica Cells Used for Olive Oil Mill Wastewater Treatment*, Chemical Engineering Communications, Vol.203(5), pp.666-675, DOI:10.1080/00986445.2015.107917, 2016 (IF 1.297-Q3)
<https://www.tandfonline.com/doi/full/10.1080/00986445.2015.1079179>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000372364100012>
41. AI Galaction, AS Bompă, L. Kloetzer, **M. Turnea**, D. Cascaval, *Synergic Extraction and Transport of Folic Acid through Liquid Membranes*, Solvent Extraction and Ion Exchange, Vol. 33(3), pp.313-328, DOI:10.1080/07366299.2015.1010887, 2015, (IF 1.969 -Q3)
https://www.researchgate.net/publication/276130488_Synergic_Extraction_and_Transport_of_Folic_Acid_through_Liquid_Membranes
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000353772400008>

42. AI Galaction, AC Blaga, CP Ciobanu, **M. Turnea**, D. Cascaval, *Distribution of Oxygen Transfer Rates in Stirred Bioreactor for Different Fermentation Broths-Oxygen-Vector Dispesions*, Enviromental Engineering and Management Journal, Vol. 14(2), pp. 433-447, 2015 (IF 1.008-Q4)
http://www.eemj.icpm.tuiasi.ro/pdfs/vol14/no2/20_964_Galaction_14.pdf
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000351604300021>
43. D. Cascaval, RM Matran, **M. Turnea**, AC Blaga, AI Galaction, *Distribution of Mixing Efficiency in A Split-Cylinder Gas-Lift Bioreactor for Yarrowia Lipolytica Suspensions*, Canadian Journal of Chemical Engineering, Vol. 93(1), pp.18-28, DOI:10.1002/cjce.22107, 2015 (IF 1.066-QQ3)
<https://onlinelibrary.wiley.com/doi/10.1002/cjce.22107>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000345977500002>
44. M. Ilea, **M. Turnea**, D. Arotaritei, M. Rotariu, M. Popescu, *Graphical user Interface with applications in Susceptible-Infectious-Susceptible Models*, Medical Sourgical Journal, Vol.119(2), pp.610-614, 2015, (IF 0.1-Q4)
<https://pubmed.ncbi.nlm.nih.gov/26204675/>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000409108300048>
45. M. Rotariu, R. Filep, **M. Turnea**, M. Ilea, D. Arotaritei, M. Popescu, *Analyses of Socket-Prosthesis-Blunt Complex for Lower Limb using Objective Measure of Patient's Gait Cycle*, Medical Surgical Journal, Vol.119(1), pp. 281-286, 2015 (IF 0.1-Q4)
<https://pubmed.ncbi.nlm.nih.gov/25970979/>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000409105500067>
46. AI Galaction, RM Matran, AC Blaga, **M. Turnea**, D. Cascaval, *Applications of Pneumatic Bioreactors in Wastewaters Treatment 1. Mixing Efficiency and Distribution in Split-Cylinder Gas-Lift Bioreactor for Viscous Media*, Environmental Engineering and Management Journal, Vol.13(10), pp. 2653-2664, 2014 (IF 1.065-Q4)
http://www.eemj.icpm.tuiasi.ro/pdfs/vol13/no10/26_69_Galaction_14.pdf
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000347162500026>
47. A. Carlescu, AC Blaga, AI Galaction, **M. Turnea**, D. Cascaval, *Interfacial Mass Transfer in the Reactive Extraction Process of Succinic Acid from Viscous Aqueous Solutions*, Separation Science and Technology, Vol.49(7), pp. 974-980, DOI:10.1080/01496395.2013.868488, 2014 (IF 1.171-Q3)
<https://www.tandfonline.com/doi/abs/10.1080/01496395.2013.868488>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000335214100003>
48. AI Galaction, RM Matran, **M. Turnea**, AC Blaga, D. Cascaval, *Engineering Aspects of Penicillin G Transfer and Conversion to 6-Aminopenicillanic Acid in a Bioreactor with a Mobile Bed of Immobilized Penicillin Amidase*, Chemical Engineering Communications, Vol.201(12), pp.1568-1581, DOI:10.1080/00986445.2013.819801, 2014 (IF 1.104 -Q3)
<https://www.tandfonline.com/doi/full/10.1080/00986445.2013.819801>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000337916600002>
49. M. Ilea, **M. Turnea**, M. Rotariu, D. Arotaritei, M. Popescu, *Taguchi Method for Partial Differential Equations with Applications in Tumor Growth*, Medical Surgical Journal, Vol.118(2), pp.571-574, 2014 (IF 0.1-Q4)
https://www.researchgate.net/publication/264394548_Taguchi_method_for_partial_differential_equation_s_with_application_in_tumor_growth
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000409084700066>
50. RM Matran, AI Galaction, AC Blaga, **M. Turnea**, D. Cascaval, *Green Technology for 6-Aminopenicillanic Acid Production- Study of Penicilin G Hydrolysis in A Bioreactor with Mobile Bed of Immobilized Penicillin Amidase under Substrate Inhibition*, Environmental Engineering and Management Journal, Vol.12(11), pp.2261-2266, 2013 (IF 1.258-Q4)

- http://www.eemj.icpm.tuiasi.ro/pdfs/vol12/no11/23_72_Matran_13.pdf
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000330191100023>
51. D. Cascaval, A. Cârlescu, AI Galaction, **M. Turnea**, *Study on Biomass Impact on the Reactive Extraction of Succinic Acid from Actinobacillus succinogenes Suspensions*, Industrial & Engineering Chemistry Research, Vol. 52(30), pp.10261-10268, DOI:10.1021/ie4016792, 2013 (IF 2.235-Q2)
<https://pubs.acs.org/doi/10.1021/ie4016792>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000322752400026>
 52. M. Ilea, **M. Turnea**, M. Rotariu, *Differential Equations with Applications in Cancer Diseases*, Medical Surgical Journal, Vol.117(2), pp. 572-577, 2013 (IF 0.1-Q4)
<https://pubmed.ncbi.nlm.nih.gov/24340548/>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000409071400061>
 53. D. Cascaval, **M. Turnea**, AI Galaction, AC Blaga, *6-Aminopenicillanic acid production in stationary basket bioreactor with packed bed of immobilized penicillin amidase-Penicillin G mass transfer and consumption rate under internal diffusion limitation*, Biochemical Engineering Journal, Vol.69, pp.113-122, 2012, DOI:10.1016/j.bej.2012.09.004 (IF 2.579-Q2)
<https://www.sciencedirect.com/science/article/abs/pii/S1369703X12002628>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000312178500016>
 54. M. Postaru, **M. Turnea**, AI Galaction, L. Kloetzer, A. Blaga, A. Vlysidis, C. Webb, A. Cârlescu, D. Cascaval, *Modeling of Selective Pertraction of Carboxylic Acids Produced by Actinobacillus succinogenes Fermentation*, Environmental Engineering and Management Journal, Vol.11(11), pp.1901-1906, 2012 (IF 1.117-Q4)
http://www.eemj.icpm.tuiasi.ro/pdfs/vol11/no11/4_212_Postaru_12_final.pdf
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000311559600005>
 55. L. Rumelea, AM Lupasteanu, **M. Turnea**, L. Kloetzer, AI Galaction, AC Blaga, D. Cascaval, *External and internal diffusion of lipids in biodegradation process with stirred beds of immobilized Bacillus spp. cells*, New Biotechnology, Vol.29, pp.S111-S116, 2012, DOI:10.1016/j.nbt.2012.08.311 (IF 1.706-Q1)
<https://www.sciencedirect.com/science/article/abs/pii/S1871678412004633?via%3Dihub>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000209805600307>
 56. AI Galaction, A. Carlescu, **M. Turnea**, D. Cascaval, *Direct Extraction of Propionic Acid from Propionibacterium acidipropionici Broths with Tri-n-octylamine*, Chemical Engineering & Technology, Vol.35(9), pp.1657-1663, 2012, DOI:10.1002/ceat.201200066, (IF 1.366-Q3)
<https://onlinelibrary.wiley.com/doi/10.1002/ceat.201200066>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000307892200020>
 57. AI Galaction, L. Kloetzer, **M. Turnea**, C. Webb, A. Vlysidis, D. Cascaval, *Succinic acid fermentation in a stationary-basket bioreactor with a packed bed of immobilized Actinobacillus succinogenes: 1. Influence of internal diffusion on substrate mass transfer and consumption rate*, Journal of Industrial Microbiology & Biotechnology, Vol. 39(6), pp.877-888, 2012, DOI10.1007/s10295-012-1095-z (IF 2.321-Q2)
<https://academic.oup.com/jimb/article/39/6/877/5994510?login=false>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000304402200008>
 58. D. Cascaval, AI Galaction, **M. Turnea**, *Influences of Internal Diffusion on the Lipids Bio-Degradation with Immobilized Bacillus Sp. Cells in Fixed Bed of Basket Type*, Medical Surgical Journal, Vol.116(1), pp.228-232, 2012, (IF 0.1-Q4)
<https://pubmed.ncbi.nlm.nih.gov/23077901/>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000409051500036>
 59. D. Cascaval, AI Galaction, **M. Turnea**, AM Lupasteanu, *Biodegradation of lipids from olive oil mill wastewaters in a stationary basket bioreactor with immobilized Bacillus spp. cells - Influence of internal*

- diffusion*, Water Science and Technology, Vol. 65(5), pp.920-926, 2012, DOI:10.2166/wst.2012.938 (IF 1.102-Q3)
<https://iwaponline.com/wst/article-abstract/65/5/920/17210/Biodegradation-of-lipids-from-olive-oil-mill?redirectedFrom=fulltext>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000300634800018>
60. C. Corciova, **M. Turnea**, D. Matei, D. Andritoi, *Evaluation of Cardiac Parameters using Electrical Impedance Plethysmography*, Medical Surgical Journal, Vol.116(3), pp. 927-932, 2012 (IF 0.1-Q4)
<https://pubmed.ncbi.nlm.nih.gov/23272554/>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000409058900048>
 61. AI Galaction, D. Cascaval, R. Rotaru, AM Lupasteanu, **M. Turnea**, *Kinetic Studies on Biodegradation of Lipids from Olive Oil Mill Wastewaters with Free and Immobilized Bacillus sp. Cells*, Scientific Study and Research-Chemistry and Chemical Engineering Biotechnology Food Industry, Vol.13(1), pp. 49-62, 2012 (IF 1.102-Q4)
<https://core.ac.uk/download/pdf/27196875.pdf>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000217232900006>
 62. M. Ilea, **M. Turnea**, M. Rotariu, *Ordinary Differential Equations with Applications in Molecular Biology*, Medical Surgical Journal, Vol.116(1), pp.347-352, 2012 (IF 0.1-Q4)
https://www.researchgate.net/publication/232318504_Ordinary_differential_equations_with_applications_in_molecular_biology
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000409051500055>
 63. **M. Turnea**, M. Ilea, D. Boldureanu, M. Rotariu, *Numerical Simulations of Blunt-Prosthesis-Rod Complex*, Metalurgia International, Vol.17(11), pp. 94-99, 2012 (IF 0.134-Q4)
https://www.researchgate.net/publication/295634769_NUMERICAL_SIMULATIONS_OF_BLUNT-PROSTHESIS-ROD_COMPLEX
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000307370400016>
 64. **M. Turnea**, M. Ilea, D. Boldureanu, M. Rotariu, *Mathematical Modeling of Blunt-Prosthesis Systems*, Metalurgia International, Vol.17(5), pp. 208-215, 2012 (IF 0.134-Q4)
https://www.researchgate.net/publication/290289891_Mathematical_modeling_of_blunt_-_Prosthesis_systems
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000302202400039>
 65. AI Galaction, R. Rotaru, L. Kloetzer, A. Vlysidis, C. Webb, **M. Turnea**, D. Cascaval, *External and Internal Glucose Mass Transfers in Succinic Acid Fermentation with Stirred Bed of Immobilized Actinobacillus succinogenes under Substrate and Product Inhibitions*, Journal of Microbiology and Biotechnology, Vol.21(12), pp.1257-1263, 2011 DOI:10.4014/jmb.1107.07024 (IF 1.381-Q3)
<https://www.jmb.or.kr/journal/view.html?volume=21&number=12&spage=1257>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000298577300007>
 66. D. Cascaval, AI Galaction, **M. Turnea**, *Comparative analysis of oxygen transfer rate distribution in stirred bioreactor for simulated and real fermentation broths*, Journal of Industrial Microbiology & Biotechnology, Vol.38(9), pp.1449-1466, 2011 DOI:10.1007/s10295-010-0930-3 (IF 2.735-Q2)
<https://academic.oup.com/jimb/article/38/9/1449/5994314?login=false>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000294225100034>
 67. AI Galaction, R. Baltaru, **M. Turnea**, D. Cascaval, *Ethanol production in a basket bioreactor with immobilized yeasts cells 2. Study on the mixing efficiency in the outer region of basket for a double Rushton turbine impeller*, Romanian Biotechnological Letters, Vol.16(4), pp.6344-6353, 2011, (IF 0.349- Q4)
<https://rombio.unibuc.ro/wp-content/uploads/2022/05/16-4-8.pdf>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000294400300008>

68. D. Cascaval, AI Galaction, R. Rotaru, **M. Turnea**, *Study on the Mixing Efficiency in a Basket Bioreactor with Immobilized Yeasts Cells*, Environmental Engineering and Management Journal, Vol. 10(5), pp.711-716, 2011 DOI:10.30638/eemj.2011.095 (IF 1.004-Q4)
http://www.eemj.icpm.tuiasi.ro/pdfs/vol10/no5/15_51_Cascaval_11.pdf
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000292409500015>
69. M. Ciorap, C. Corciova, **M. Turnea**, V. David, *Brain Electrical Activity Recording in Some Electromagnetic Environments*, Environmental Engineering and Management Journal, Vol. 10(4), pp. 535-544, 2011 DOI: 10.30638/eemj.2011.075 (IF 1.004-Q4)
http://www.eemj.icpm.tuiasi.ro/pdfs/vol10/no4/10_173_Ciorap_11.pdf
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000292409400010>
70. M. Ilea, M. Turnea, D. Arotaritei, CM Toma, *Mathematical Modelling of Drug Addiction*, Medical Surgical Journal, Vol. 115(2), pp. 493-498, 2011 (IF 0.1-Q4)
<https://pubmed.ncbi.nlm.nih.gov/21870746/>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000409030300032>
71. AI Galaction, AM Lupasteanu, **M. Turnea**, D. Cascaval, *Effect of Internal Diffusion on Bioethanol Production in a Bioreactor with Yeast Cells Immobilized on Mobile Beds*, Environmental Engineering and Management Journal, Vol. 9(5), pp.675-680, 2010 (IF 1.435-Q4)
http://www.eemj.icpm.tuiasi.ro/pdfs/vol9/no5/12_84_Galaction_10.pdf
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000280439400009>
72. D. Cascaval, AI Galaction, **M. Turnea**, S Camarut, *Analysis of Distribution of Oxygen Transfer Rate in Stirred Bioreactors for Fungus Broths 1. Suspension of P. Chrysogenum Free Mycelia*, Environmental Engineering and Management Journal, Vol. 9(2), pp.257-267, 2010 DOI:10.30638/eemj.2010.036 (IF 1.435-Q4)
http://www.eemj.icpm.tuiasi.ro/pdfs/vol9/no2/17_132_Cascaval.pdf
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000276559000011>
73. AI Galaction, AM Lupasteanu, **M. Turnea**, D. Cascaval, *Comparative Analysis of Mixing Efficiency and Distribution Induced by Radial Impellers in Bioreactors with Stirred Bed of Immobilized Cells*, Chemical Industry & Chemical Engineering Quartey, Vol. 16(1), pp.47-64, 2010 DOI:10.2298/CICEQ1000002G, (IF 0.58-Q4)
<https://doiserbia.nb.rs/Article.aspx?ID=1451-93721000002G>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000279150700006>
74. D. Cascaval, AI Galaction, **M. Turnea**, *Study of the influence of solute and carrier characteristics on facilitated pertraction mechanism in pseudosteady-state conditions*, Journal of Membrane Science, Vol. 328(1-2), pp.228-237, 2009 DOI:10.1016/j.memsci.2008.12.011 (IF 3.203-Q1)
<https://www.sciencedirect.com/science/article/abs/pii/S0376738808010375>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000263891600027>
75. D. Cascaval, AI Galaction, **M. Turnea**, *Comparative analysis of mixing distribution in aerobic stirred bioreactor for simulated yeasts and fungus broths*, Journal of Industrial Microbiology & Biotechnology, Vol. 34(1), pp.35-47, 2007 DOI:10.1007/s10295-006-0159-3 (IF 1.681-Q2)
<https://academic.oup.com/jimb/article/34/1/35/5993102?login=false>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000242824600006>
76. D. Cascaval, AI Galaction, E. Folescu, **M. Turnea**, *Comparative study on the effects of n-dodecane addition on oxygen transfer in stirred bioreactors for simulated, bacterial and yeasts broths*, Biochemical Engineering Journal, Vol. 31(1), pp. 56-66, 2006 DOI:10.1016/j.bej.2006.05.019 (IF 1.608-Q2)
<https://www.sciencedirect.com/science/article/abs/pii/S1369703X0600132X>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000240301400008>

77. AI Galaction, D. Cascaval, **M. Turnea**, E Folescu, *Enhancement of oxygen mass transfer in stirred bioreactors using oxygen-vectors 2.: Propionibacterium shermanii broths*, Bioprocess and Biosystems Engineering, Vol.27(4), pp.263-271, 2005 DOI:10.1007/s00449-005-0416-2 (IF 0.807-Q2)
<https://link.springer.com/article/10.1007/s00449-005-0416-2>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000230491900007>
78. AI Galaction, D. Cascaval, C. Oniscu, **M. Turnea**, *Evaluation and modeling of the aerobic stirred bioreactor performances for fungus broths*, Chemical Industry & Chemical Engineering Quartey, Vol.19(1), pp.87-97, 2005 (IF 0.632-Q4)
https://www.researchgate.net/publication/242222412_Evaluation_and_Modeling_of_the_Aerobic_Stirred_Bioreactor_Performances_for_Fungus_Broths
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000228662400013>
79. AI Galaction, D. Cascaval, C. Oniscu, **M. Turnea**, *Prediction of oxygen mass transfer coefficients in stirred bioreactors for bacteria, yeasts and fungus broths*, Biochemical Engineering Journal, Vol.20(1), pp. 85-94, 2004 DOI10.1016/j.bej.2004.02.005 (IF 1.617 -Q2)
<https://www.sciencedirect.com/science/article/abs/pii/S1369703X04000294>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000222308300013>
80. AI Galaction, D. Cascaval, C. Oniscu, **M. Turnea**, *Enhancement of oxygen mass transfer in stirred bioreactors using oxygen-vectors. 1. Simulated fermentation broths*, Bioprocess and Biosystems Engineering, Vol. 26(4), pp.231-238, 2004 DOI:10.1007/s00449-004-0353-5 (IF 0.916-Q2)
<https://pubmed.ncbi.nlm.nih.gov/15042455/>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000222368600005>
81. D. Cascaval, AI Galaction, C. Oniscu, **M. Turnea**, *Correlations for the oxygen mass-transfer in mechanical stirred bioreactors. Simulated fermentation liquids*, REVISTA DE CHIMIE, Vol.54(12), pp.1000-1007, 2003 (IF 0.291-Q3)
https://www.researchgate.net/publication/288666279_Correlations_for_the_oxygen_mass-transfer_in_mechanical_stirred_bioreactors_Simulated_fermentation_liquids
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000187783500017>

C.2 Articole indexate în bază de date internațională WOS

1. C. Corciova, **M. Turnea**, A. Gheorghita, D. Arotaritei, *An Optimal Path Planning Proposal for Motion Robots with Specific Constraints Applicable in Biomedical Engineering*, 4th International Conference on Nanotechnologies and Biomedical Engineering, ICNBME-2019, IFMBE Proceedings, Vol.77, pp. 433-437, 2019, DOI10.1007/978-3-030-31866-6_79
https://link.springer.com/chapter/10.1007/978-3-030-31866-6_79
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000552314200079>
2. C. Corciova, **M. Turnea**, D. Arotaritei, A. Gheorghita, *A Tutorial for Computational Fluid Dynamics Applied to Multilayer Flow Modulator*, New Technologies and Redesigning Learning Spaces, Vol. III, pp. 255-260, 2019 DOI10.12753/2066-026X-19-172
<https://proceedings.elseconference.eu/index.php?r=site/index&year=2019&index=papers&vol=34&paper=e4ee8739393066bb9463594d17cb30e9>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000473324500035>
3. A. Gheorghita, **M. Turnea**, M. Ilea, M. Rotariu, G. Constantin, D. Arotaritei, *A New Proposal for Solving Equations of Angular Contact Ball Bearing Using Evolutionary Techniques*, 6TH International Conference on Advancements of Medicine and Health Care Through Tehnology, MEDITECH 2018, Volume: 71, pp. 241-245, 2019 DOI10.1007/978-981-13-6207-1_37

https://link.springer.com/chapter/10.1007/978-981-13-6207-1_37

<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000493501100037>

4. A. Gheorghita, C. Corciova, **M. Turnea**, D. Arotaritei, *Microcontroller Implementation of Algorithms for Computational Complexity*, 11TH International Symposium on Advanced, Topics, in Electrical Engineering (ATEE)2019, 2019, DOI10.1109/atee.2019.8724898
<https://ieeexplore.ieee.org/document/8724898>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000475904500055>
5. M. Ilea, A. Gheorghita, **M. Turnea**, *Dynamics of Salmonella Transmission Using Compartmental Models*, New Technologies and Redesigning Learning Spaces, Vol. III, pp.299-306, 2019, DOI10.12753/2066-026X-19-179
<https://proceedings.elseconference.eu/index.php?r=site/index&year=2019&index=papers&vol=34&paper=9c5f697729e141668bd944b1ac37c7c4>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000473324500042>
6. **M. Turnea**, C. Corciova, M. Ilea, M. Rotariu, *The Mathematical Modelling of the microbial Growth Process*, New Technologies and Redesigning Learning Spaces, Vol. III, pp. 339-345, 2019
<https://proceedings.elseconference.eu/index.php?r=site/index&year=2019&index=papers&vol=34&paper=055beb864e0955b1f00a4a7df96947cf>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000473324500046>
7. AC Ionite, M. Rotariu, **M. Turnea**, *A Statical Approach to Data Collected at the Foot Map Level in Simulating the Evolution of Osteitis Pubis*, Proceedings of the 14th International Scientific Conference e-Learning and Software for Educational: E-Learning Challenges and New Horizons, Vol, 3, Page433-440, DOI:10.12753/2066-026X-18-206, 2018
<https://proceedings.elseconference.eu/index.php?r=site/index&year=2018&index=papers&vol=29&paper=55ff637d18e6c29047c6eb128527ac49>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000467471000064>
8. M. Rotariu, C. Ionite, **M. Turnea**, *Modeling and Simulation of Static Demands of the Vertebral Column in the Sagittal Plane*, Proceedings of the 14th International Scientific Conference e-Learning and Software for Educational: E-Learning Challenges and New Horizons, Vol. 3, Pages475-480, DOI:10.12753/2066-026X-18-212, 2018
<https://proceedings.elseconference.eu/index.php?r=site/index&year=2018&index=papers&vol=29&paper=13c0ea4a937a9277834036d818c9347c>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000467471000070>
9. **M. Turnea**, M. Ilea, *Predictive Simulation for Type II Diabetes Using Data Mining Strategies Applied to Big Data*, Proceedings of the 14th International Scientific Conference e-Learning and Software for Educational: E-Learning Challenges and New Horizons, Vol. 3, Pages481-486, DOI: 10.12753/2066-026X-18-213, 2018
<https://proceedings.elseconference.eu/index.php?r=site/index&year=2018&index=papers&vol=29&paper=5eae07a3f887c4151a623399d8c9cec9>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000467471000071>
10. D. Arotaritei, **M. Turnea**, R. Filep, M. Ilea, M. Rotariu, *Analyze of Liner Influence in Transtibial Prosthetic taking into account Tribological Aspects*, 9th International Symposium on Advanced Topics in Electrical Engineering (ATEE), pp.299-302, 2015
<https://ieeexplore.ieee.org/document/7133784>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000368159800055>
11. D. Arotaritei, **M. Turnea**, R. Filep, M. Ilea, M. Rotariu, A. Gheorghita, *Graphical Interface for Analyze of Temperature of Skin at Skin-Liner Interface*, E-Health and Bioengineering Conference (EHB), 2015
<https://ieeexplore.ieee.org/document/7391408>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000380397900061>

12. D. Arotaritei, V. Beiu, **M. Turnea**, M. Rotariu, *Probabilistic Gate Matrix for Axon-inspired Communication*, 2013 E-Health and Bioengineering Conference (EHB), DOI:10.1109/EHB.2013.6707255, 2013
<https://ieeexplore.ieee.org/document/6707255>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000346672900023>
13. C. Munteanu, D. Munteanu, **M. Turnea**, *Modeling and simulation methodology for Aging*, 2013 E-Health and Bioengineering Conference (EHB), 2013 DOI:10.1109/EHB.2013.6707407
<https://ieeexplore.ieee.org/document/6707407>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000346672900175>
14. M. Rotariu, **M. Turnea**, D. Arotaritei, M. Ilea, *Graphical Interface that Interprets the Moments Collected from the Contact between the Stump and Socket*, 8th International Symposium on Advanced Topics in Electrical Engineering (ATEE), 2013, DOI:10.1109/ATEE.2013.6563424
<https://ieeexplore.ieee.org/document/6563424>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000332928500078>
15. M. Rotariu, **M. Turnea**, D. Arotaritei, R. Filep, M. Ilea, *A Proposal for Construction of the Surface Pressure Map Distribution with Tribological Considerations at Stump-Liner Interface in Prosthetic Application*, E-Health and Bioengineering Conference (EHB), 2013, DOI:10.1109/EHB.2013.6707290
<https://ieeexplore.ieee.org/document/6707290>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000346672900058>
16. **M. Turnea**, M. Rotariu, D. Arotaritei, *Mathematical Modeling and Simulation for Keloid Scars Formation from The Prosthetic Blunt Socket*, 8th International Symposium on Advanced Topics in Electrical Engineering (ATEE), 2013, DOI:10.1109/ATEE.2013.6563527
<https://ieeexplore.ieee.org/document/6563527>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000332928500181>
17. **M. Turnea**, D. Andritoi, M. Rotariu, C. Corciova, *Compartimental Analysis Using Electrical Impedance Applied for Real Fermentation Broths*, E-Health and Bioengineering Conference (EHB), 2013, DOI:10.1109/EHB.2013.6707330
<https://ieeexplore.ieee.org/document/6707330>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000346672900098>
18. C. Corciova, **M. Turnea**, *Model of the Blood Flow in Coronary Arterial System*, 7th International Conference on Management of Technological Changes, Management of Technological Changes, Book.1, pp. 365-368, 2011
<https://www-webofscience-com/wos/woscc/full-record/WOS:000306939900092>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000306939900092>
19. C. Corciova, **M. Turnea**, A. Salceanu, *A Measurement System for the Blood Flow in Peripheral Territory*, 3rd International Conference on E-Health and Bioengineering (EHB), 2011
<https://ieeexplore.ieee.org/document/6150326>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000304806300018>
20. AI Galaction, **M. Turnea**, L. Rumelea, D. Cascaval, *External and Internal Mass Transfer in Biocatalyst Particle for a Stationary Basket Bioreactor*, 3rd International Conference on E-Health and Bioengineering (EHB), 2011
<https://ieeexplore.ieee.org/document/6150428>
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000304806300120>
21. **M. Turnea**, A. Lupasteanu, AI Galaction, D. Cascaval, *Modelling of Mixing in Bioreactors with Mobile Beds of Immobilized Biocatalysts for Six Radial Impellers*, Proceedings of the 2nd WSEAS International Conference on Biomedical Electronics and Biomedical Informatics, pp.232-239, 2009
https://www.researchgate.net/publication/228471965_Modelling_of_mixing_in_bioreactors_with_mobile_beds_of_immobilized_biocatalysts_for_six_radial_impellers

- <https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000273246200040>
22. D. Arotaritei, **M. Turnea**, TM Cristian, M. Ilea, *Grid computing services for parallel algorithms in medicine and biology*, 9th WSEAS International Conference on Mathematics and Computers in Biology and Chemistry, pp.94-99, 2008
https://www.researchgate.net/publication/234798684_Grid_computing_services_for_parallel_algorithms_in_medicine_and_biology
<https://www-webofscience-com.dbproxy.umfiasi.ro/wos/woscc/full-record/WOS:000258094800021>

C.3 Articole indexate în baze de date internaționale SCOPUS

1. C. Ionite, D. Arotăritei, **M. Turnea**, M. Ilea, M. Rotariu, *Applications of fitness function in Pubalgia affliction*, Balneo and PRM Research Journal, Vol.12(1), pp.77–81, 2021 DOI 10.12680/balneo.2021.423
<https://bioclima.ro/Balneo423.pdf>
<https://www-scopus-com.dbproxy.umfiasi.ro/record/display.uri?eid=2-s2.0-85173784967&origin=resultslist&sort=plf-f&src=s&sid=e456504b07ec8d8388f8483d1a596d6e&sot=b&sdt=cl&cluster=scoafid%2C%2260026019%22%2Ct&s=AUTHOR-NAME%28Turnea+M%29&sl=21&sessionSearchId=e456504b07ec8d8388f8483d1a596d6e&relpos=14>
2. M. Ilea, **M. Turnea**, D. Arotaritei, C. Corciova, *Educational Tool for Multiple Attribute Decision Making in Biomedical Engineering Using Fuzzy Topsis and Fuzzy Vikor*, 17th International Scientific Conference on eLearning and Software for Education, eLSE 2021, pp 269 – 276, 2021, DOI 10.12753/2066-026X-21-175
https://www.researchgate.net/publication/368803416_EDUCATIONAL_TOOL_FOR_MULTIPLE_ATTRIBUTE_DECISION_MAKING_IN_BIOMEDICAL_ENGINEERING_USING_FUZZY_TOPSIS_AND_FUZZY_VIKOR
<https://www-scopus-com.dbproxy.umfiasi.ro/record/display.uri?eid=2-s2.0-85127278479&origin=resultslist&sort=plf-f&src=s&sid=e456504b07ec8d8388f8483d1a596d6e&sot=b&sdt=cl&cluster=scoafid%2C%2260026019%22%2Ct&s=AUTHOR-NAME%28Turnea+M%29&sl=21&sessionSearchId=e456504b07ec8d8388f8483d1a596d6e&relpos=16>
3. **M. Turnea**, A. Gheorghita, M. Rotariu, I. Condurache, R. Fuior, *An Educational Approach for Mathematical Models of Covid-19 Propagation; One and Neural Networks*, The 17th International Scientific Conference eLearning and Software for Education Bucuresti, April 22-23, Vol. 2, pp. 312-319, 2021 DOI: 10.12753/2066-026X-21-179.
<https://www.semanticscholar.org/paper/AN-EDUCATIONAL-APPROACH-FOR-MATHEMATICAL-MODELS-OF-Turnea-Rotariu/dccc8a5502bcd9efab53635ae190c0fda6bb8858>
<https://www-scopus-com.dbproxy.umfiasi.ro/record/display.uri?eid=2-s2.0-85127275706&origin=resultslist&sort=plf-f&src=s&sid=8e9e1a7a32345a00e29f94e85218a16c&sot=b&sdt=cl&s=AUTH%28Turnea+M%29&sl=14&sessionSearchId=8e9e1a7a32345a00e29f94e85218a16c&relpos=22>
4. M. Rotariu, **M. Turnea**, C. Ionite, I. Condurache, *Analysis and Forecasting of Buruli Ulcer Disease with ARIMA and NARNN, a Didactic Tool Approach*, The 17th International Scientific Conference eLearning and Software for Education Bucuresti, April 22-23, Voume 2, pp. 305-311, DOI: 10.12753/2066-026X-21-178, 2021.
<https://www.proquest.com/openview/aba8bab79588a7e3190e07abf2489110/1?pq-origsite=gscholar&cbl=1876338>

- <https://www-scopus-com.dbproxy.umfiasi.ro/record/display.uri?eid=2-s2.0-85127229145&origin=resultslist&sort=plf-f&src=s&sid=8e9e1a7a32345a00e29f94e85218a16c&sot=b&sdt=cl&s=AUTH%28Turnea+M%29&sl=14&sessionSearchId=8e9e1a7a32345a00e29f94e85218a16c&relpos=23>
5. C. Corciova, A. Gheorghita, R. Fuior. **M. Turnea**, *A proposal for a simulator for respiratory control system, toward a learning tool for biomedical engineering students*, The 16th International Scientific Conference eLearning and Software for Education București, April 22-23, Vol. 2, pp. 203-208, DOI 10.12753/2066-026X-20-196, 2020
<https://proceedings.elseconference.eu/index.php?r=site/index&year=2020&index=papers&vol=37&paper=79b78a60e6c63e863a08de83147f9080>
<https://www-scopus-com.dbproxy.umfiasi.ro/record/display.uri?eid=2-s2.0-85096619264&origin=resultslist&sort=plf-f&src=s&sid=e456504b07ec8d8388f8483d1a596d6e&sot=b&sdt=cl&cluster=scoafid%2C%2260026019%2%2Ct&s=AUTHOR-NAME%28Turnea+M%29&sl=21&sessionSearchId=e456504b07ec8d8388f8483d1a596d6e&relpos=20>
6. **M. Turnea**, A. Dragos, R. Fuior, *Intelligent algorithms with selection of hyperparameters for e-health applications powered by 5G wireless networks*, The 16th International Scientific Conference eLearning and Software for Education Bucuresti, April 22-23, Vol. 2, pp. 260-266, 2020, DOI 10.12753/2066-026X-20-205
<https://proceedings.elseconference.eu/index.php?r=site/index&year=2020&index=papers&vol=37&paper=7875119f966b192cf7a20d589016e3fb>
<https://www-scopus-com.dbproxy.umfiasi.ro/record/display.uri?eid=2-s2.0-85096537939&origin=resultslist&sort=plf-f&src=s&sid=e456504b07ec8d8388f8483d1a596d6e&sot=b&sdt=cl&cluster=scoafid%2C%2260026019%2%2Ct&s=AUTHOR-NAME%28Turnea+M%29&sl=21&sessionSearchId=e456504b07ec8d8388f8483d1a596d6e&relpos=21>
7. M. Ilea, **M. Turnea**, C. Corciova, M. Rotariu, *An e-learning tool for mathematical model of cholesterol homeostasis depending on diet and ages*, The 16th International Scientific Conference eLearning and Software for Education Bucuresti, April 22-23, Vol. 2, pp. 229-235, 2020, DOI 10.12753/2066-026X-20-200
<https://proceedings.elseconference.eu/index.php?r=site/index&year=2020&index=papers&vol=37&paper=7ccc06328bef14514cd6eed4dbd44f27>
<https://www-scopus-com.dbproxy.umfiasi.ro/record/display.uri?eid=2-s2.0-85096527402&origin=resultslist&sort=plf-f&src=s&sid=e456504b07ec8d8388f8483d1a596d6e&sot=b&sdt=cl&cluster=scoafid%2C%2260026019%2%2Ct&s=AUTHOR-NAME%28Turnea+M%29&sl=21&sessionSearchId=e456504b07ec8d8388f8483d1a596d6e&relpos=22>
8. **M. Turnea**, C. Corciova, M. Ilea, M. Rotariu, *The mathematical modelling of the microbial growth process*, 15th International Scientific Conference on eLearning and Software for Education, eLSE 2019, pp. 339-345, 2019 DOI:10.12753/2066-026X-19-184
<https://proceedings.elseconference.eu/index.php?r=site/index&year=2019&index=papers&vol=34&paper=055beb864e0955b1f00a4a7df96947cf>
<https://www-scopus-com.dbproxy.umfiasi.ro/record/display.uri?eid=2-s2.0-85085216149&origin=resultslist&sort=plf-f&src=s&sid=bdb47f3b3bc0c87cde1091c9c6e2f6ec&sot=b&sdt=cl&cluster=scoafid%2C%2260026019%2%2Ct&s=AUTHOR-NAME%28Turnea+M%29&sl=21&sessionSearchId=bdb47f3b3bc0c87cde1091c9c6e2f6ec&relpos=25>

9. A. Carlescu, L. Kloetzer, **M. Turnea**, AC Blaga, AI Galaction, D. Cascaval, *Influence of aqueous phase viscosity on the interfacial mass transfer rate of succinic acid in the reactive extraction process with tri-n-octylamine*, 21st International Congress of Chemical and Process Engineering, CHISA 2014 and 17th Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction, PRES 2014, Paga 23-27 August, Vol.1 pp.446, 2014
<https://www.scopus.com/record/display.uri?eid=2-s2.0-85009187891&origin=inward&txGid=08d04d631aaf77399b4a9d6cc728a860>
<https://www.scopus-com.dbproxy.umfiasi.ro/record/display.uri?eid=2-s2.0-85009187891&origin=resultslist&sort=plf-f&src=s&sid=8e9e1a7a32345a00e29f94e85218a16c&sot=b&sdt=cl&s=AUTH%28Turnea+M%29&sl=14&sessionSearchId=8e9e1a7a32345a00e29f94e85218a16c&relpos=47>
10. M. Rotariu, F. Munteanu, **M. Turnea**, D. Arotaritei, *Modeling and design of prosthetic abutment system to evaluate the complex interface*, Applied Mechanics and Materials, Vol. 654, pp.471 - 476, 2014, DOI:10.4028/www.scientific.net/AMM.658.471
<https://www.scientific.net/AMM.658.471>
<https://www.scopus-com.dbproxy.umfiasi.ro/record/display.uri?eid=2-s2.0-84920705076&origin=resultslist&sort=plf-f&src=s&sid=8e9e1a7a32345a00e29f94e85218a16c&sot=b&sdt=cl&s=AUTH%28Turnea+M%29&sl=14&sessionSearchId=8e9e1a7a32345a00e29f94e85218a16c&relpos=49>
11. **M. Turnea**, M. Rotariu, D. Arotaritei, M. Ilea, *Modeling and simulation keloid scar formation from biphasic contact blunt-prosthesis*, Applied Mechanics and Materials, Vol.658, pp.489 - 494, 2014 DOI:10.4028/www.scientific.net/AMM.658.489
<https://www.scientific.net/AMM.658.489>
<https://www.scopus-com.dbproxy.umfiasi.ro/record/display.uri?eid=2-s2.0-84920699778&origin=resultslist&sort=plf-f&src=s&sid=f4cad4d329dcc305e62b1dada055d919&sot=b&sdt=b&s=AUTH%28Turnea+M%29&sl=14&sessionSearchId=f4cad4d329dcc305e62b1dada055d919&relpos=50>
12. R. Filep, D. Arotaritei, **M. Turnea**, M. Ilea, M. Rotariu, *Performance optimization of blunt-prosthesis-rod complex with tribological considerations*, Applied Mechanics and Materials, Vol.658, pp. 429 - 434, 2014 DOI:10.4028/www.scientific.net/AMM.658.429
<https://www.scientific.net/AMM.658.429>
<https://www.scopus-com.dbproxy.umfiasi.ro/record/display.uri?eid=2-s2.0-84920641383&origin=resultslist&sort=plf-f&src=s&sid=f4cad4d329dcc305e62b1dada055d919&sot=b&sdt=b&s=AUTH%28Turnea+M%29&sl=14&sessionSearchId=f4cad4d329dcc305e62b1dada055d919&relpos=51>
13. D. Arotaritei, M. Ilea, R. Ciorap, **M. Turnea**, *A viscoelastic model for hysteresis loop applicable to aorta and other soft biological tissues*, MeMeA 2011 - 2011 IEEE International Symposium on Medical Measurements and Applications, Proceedings, Article number 5966750, pp.75-79, 2011 DOI:10.1109/MeMeA.2011.5966750
<https://ieeexplore.ieee.org/document/5966750>
<https://www.scopus-com.dbproxy.umfiasi.ro/record/display.uri?eid=2-s2.0-80052351184&origin=resultslist&sort=plf-f&src=s&sid=f4cad4d329dcc305e62b1dada055d919&sot=b&sdt=b&s=AUTH%28Turnea+M%29&sl=14&sessionSearchId=f4cad4d329dcc305e62b1dada055d919&relpos=79>
14. M. Ilea, **M. Turnea**, D. Arotaritei, CM Toma, *Differential equations with small parameter with applications in radioimmunotherapy*, Revista medico-chirurgicală a Societății de Medici și Naturaliști din Iași, Vol.114(3), pp.937-942, 2010

- <https://pubmed.ncbi.nlm.nih.gov/21235130/>
<https://www-scopus-com.dbproxy.umfiasi.ro/record/display.uri?eid=2-s2.0-79952296844&origin=resultslist&sort=plf-f&src=s&sid=f4cad4d329dcc305e62b1dada055d919&sot=b&sdt=b&s=AUTH%28Turnea+M%29&sl=14&sessionSearchId=f4cad4d329dcc305e62b1dada055d919&relpos=82>
15. R. Ciorap, C. Corciova, D. Andritoi, **M. Turnea**, D. Zaharia, *Monitoring of the SaO2 and photoplethysmography in chronic disease*, Revista medico-chirurgicală a Societății de Medici și Naturaliști din Iași, Vol.113(2), pp.610 - 614, 2009
<https://pubmed.ncbi.nlm.nih.gov/21495376/>
<https://www-scopus-com.dbproxy.umfiasi.ro/record/display.uri?eid=2-s2.0-79959552419&origin=resultslist&sort=plf-f&src=s&sid=f4cad4d329dcc305e62b1dada055d919&sot=b&sdt=b&s=AUTH%28Turnea+M%29&sl=14&sessionSearchId=f4cad4d329dcc305e62b1dada055d919&relpos=87>
16. D. Arotaritei, CM Toma, **M. Turnea**, V. Toma, *MIDAS intelligent platform for medical services, support for decision optimization in virtual medical communities*, Revista medico-chirurgicală de Medici și Naturaliști din Iași, Vol.112(2), pp.538 - 541, 2008
<https://pubmed.ncbi.nlm.nih.gov/19295034/>
<https://www-scopus-com.dbproxy.umfiasi.ro/record/display.uri?eid=2-s2.0-67649283349&origin=resultslist&sort=plf-f&src=s&sid=f4cad4d329dcc305e62b1dada055d919&sot=b&sdt=b&s=AUTH%28Turnea+M%29&sl=14&sessionSearchId=f4cad4d329dcc305e62b1dada055d919&relpos=89>

D. Articole publicate în baze de date indexate BDI

1. C. B. Taiki, A. Gheorghita, M. Ilea, I. Condurache, C. Mucileanu, **M. Turnea**, M. Rotariu, *Hand Rehabilitation with VR and Computer Vision – RehabKnight*, Euroinvent, 2025
https://www.euroinvent.org/cat/EUROINVENT_2025.pdf
2. M. Rotariu, C. Mucileanu, I. Condurache, A. Gheorghita, **M. Turnea**, *New sensory devices for the recovery of plantar proprioception post-stroke*, Euroinvent 2025
https://www.euroinvent.org/cat/EUROINVENT_2025.pdf
3. A. Gheorghita, A. Manoliu, V. Vicol, I. Duduca, M. Rotariu, **M. Turnea**, *AI-Powered Holographic Virtual Teacher – Innovation in Education*, Euroinvent 2025
https://www.euroinvent.org/cat/EUROINVENT_2025.pdf
4. I. Duduca, A. Gheorghita, **M. Turnea**, M. Rotariu, *Kinematic analysis of the finger exoskeleton using AI techniques in the kinetic recovery process*, The XIXth National Conference of the Institute of Recovery, Physical Medicine and Balneoclimatology, 2025
<https://bioclima.ro/V2025.pdf>
5. M. Rotariu, G. Dascalu, **M. Turnea**, C. Mucileanu, C. Ionite, I. Condurache, *Kinetic techniques for developing motor skills in patient with autism*, The XIXth National Conference of the Institute of Recovery, Physical Medicine and Balneoclimatology, 2025
<https://bioclima.ro/V2025.pdf>
6. **M. Turnea**, A. Gheorghita, I. Duduca, C. Mucileanu, *Mathematical modeling and adaptive control of rehabilitation systems using artificial intelligence*, The XIXth National Conference of the Institute of Recovery, Physical Medicine and Balneoclimatology, 2025
<https://bioclima.ro/V2025.pdf>

7. A. Gheorghita, I. Duduca, **M. Turnea**, I. Condurache, *Kinetic recovery of finger joints using inertial sensors and pneumatic gloves*, The XIXth National Conference of the Institute of Recovery, Physical Medicine and Balneoclimatology, 2025
<https://bioclima.ro/V2025.pdf>
8. **M. Turnea**, M. Ilea, D. Arotăritei, M. Rotariu, A. Gheorghita, *The control of human psycho-affective stability using differential equations*, World Wide Journal of Multidisciplinary Research and Development, Vol.10(6), pp. 51-59, 2024
<https://wwjmrld.com/archive/2024/6/2233/the-control-of-human-psycho-affective-stability-using-differential-equations>
9. M. Rotariu, M. Ilea, S. Săvoaia, I. Condurache, A. Gheorghita, C. Mucileanu, **M. Turnea**, *Applications of differential Systems in the Chronic Myeloid Leukemia*, World Wide Journal of Multidisciplinary Research and Development, Vol.10(6), pp. 60-66, 2024
<https://wwjmrld.com/archive/2024/6/2234/applications-of-differential-systems-in-the-chronic-myeloid-leukemia>
10. A. Gheorghita, D. Arotăritei, **M. Turnea**, M. Ilea, I. Duduca, M. Rotariu, *Affective modeling as a special dimension of human personality using systems of differential equations with constant coefficients*, World Wide Journal of Multidisciplinary Research and Development, Vol.10(6), pp. 45-50, 2024
<https://wwjmrld.com/archive/2024/6/2232/affective-modeling-as-a-special-dimension-of-human-personality-using-systems-of-differential-equations-with-constant-coefficients>
11. I. Condurache, V. Baniță, H. A. Deac, C. Mucileanu, **M. Turnea**, M. Rotariu, *Ludotherapy in the rehabilitation of patients with coffin lowry syndrome*, Journal of Physical Rehabilitation and Sports Medicine, Numărul 5(S), pp.69-79, 2023, DOI:
<https://doi.org/10.5281/zenodo.8384215>
https://ibn.idsi.md/sites/default/files/imag_file/69-79_12.pdf
12. A. Gheorghita, **M. Turnea**, M. Ilea, D. Arotăritei, CG Viscotel, I. Condurache, M. Rotariu, *Applications of Matrix Calculus in the Study of Chemical Reactions*, World Wide Journal of Multidisciplinary Research and Development, Vol.8(11), pp.84-90, 2022
https://wwjmrld.com/upload/applications-of-matrix-calculus-in-the-study-of-chemical-reactions_1669632400.pdf
13. A. Gheorghita, **M. Turnea**, M. Ilea, D. Arotăritei, CG Viscotel, I. Condurache, M. Rotariu, *Ordinary Differential Equations with Applications in Chemical Reactions*, World Wide Journal of Multidisciplinary Research and Development, Vol.8(11), pp.76-83, 2022
https://wwjmrld.com/upload/ordinary-differential-equations-with-applications-in-chemical-reactions_1669631948.pdf
14. D. Arotăritei, **M. Turnea**, C. Ionite, M. Rotariu, *Artificial intelligence applied to model the sulphur absorption process-a possible application in cure with sulphurous mineral water*, Balneo Res. Journal, Vol.11(3), pp.310-314, 2020
<https://bioclima.ro/Balneo358.pdf>
15. C. Ionite, M. Rotariu, **M. Turnea**, *A statistical study on the recovery of pubalgic syndrome in football players*, Balneo Research Journal, Vol.10(1), pp.50-54, 2019
<https://bioclima.ro/Balneo239.pdf>
16. M. Rotariu, **M. Turnea**, C. Corciova, M. Ilea, *The Mathematical Modeling of the Microbial Growth Process*, "CAROL I" National Defense University Publishing House, 2019
17. **M. Turnea**, C. Corciova, D. Arotăritei, A. Gheorghita, *A Tutorial for Computational, Fluid Dynamics Applied to Multilayer Flow Modulator*, "CAROL I" National Defense University Publishing House, 2019
18. **M. Turnea**, A. Gheorghita, M. Ilea, *Dynamics of Salmonella Transmission Using Compartmental Models*, "CAROL I" National Defense University Publishing House, 2019

19. M. Rotariu, **M. Turnea**, C. Ionite, *A different approach to the use of elastic bands in the recovery of lower lumbar discopathy*, Balneo Research Journal, Vol.10(3), pp.213-217, 2019
<https://bioclima.ro/Balneo259.pdf>
20. M. Ilea, **M. Turnea**, D. Arotaritei, A. Gheorghita, M. Rotariu, *Mathematical Study of Diabetes Using the Homotopy Perturbation Method*, World Wide Journal of Multidisciplinary Research and Development, Vol. 5, Issue 1, pp. 50-53, 2019
<http://wwjmr.com/archive/2019/1/1121/mathematical-study-of-diabetes-using-the-homotopy-perturbation-method>
21. **M. Turnea**, M. Ilea, M. Rotariu, D. Arotaritei, C. Ionite, *Blood Glucose Control Using Differential Equations Systems for Patients with Diabetes Type 1*, World Wide Journal of Multidisciplinary Research and Development, Vol. 5, Issue 1, pp. 54-59, 2017
<http://wwjmr.com/archive/2019/1/1122/blood-glucose-control-using-differential-equations-systems-for-patients-with-diabetes-type-1>
22. D. Arotaritei, M. Ilea, M. Rotariu, A. Gheorghita, **M. Turnea**, *Application of differential systems with constant coefficients in detecting diabetics*, World Wide Journal of Multidisciplinary Research and Development, Vol. 5, Issue 1, pp. 60-65, 2019
<http://wwjmr.com/archive/2019/1/1123/application-of-differential-systems-with-constant-coefficients-in-detecting-diabetics>
23. **M. Turnea**, M. Rotariu, M. Ilea, D. Arotaritei, *A proposal for semi-automatic calculation of retinal blood tree volume*, World Wide Journal of Multidisciplinary Research and Development, Vol.5 (6), pp. 64-67, 2019
<http://wwjmr.com/archive/2019/6/1217/a-proposal-for-semi-automatic-calculation-of-retinal-blood-tree-volume>
24. **M. Turnea**, M. Rotariu, C. Ionite, D. Arotaritei, M. Ilea, *Fractional Derivatives in Mathematical Model of the Acute Inflammatory Response*, World Wide Journal of Multidisciplinary Research and Development, vol. 3, Issue 11, pp. 91-93, 2017
<https://www.wwjmr.com/archive/2017/11/541/fractional-derivatives-in-mathematical-model-of-the-acute-inflammatory-response>
25. **M. Turnea**, I. Ilea, D. Arotaritei, M. Rotariu, A. Gheorghita, *Modeling and Simulation Aortic Vascular Architecture*, World Wide Journal of Multidisciplinary Research and Development, vol. 3, Issue 10, pp. 81-85, 2017
<https://wwjmr.com/archive/2017/10/Modeling+and+Simulation+Aortic+Vascular+Architecture>
26. M. Ilea, **M. Turnea**, M. Rotariu, D. Arotaritei, A. Gheorghita, *Numerical Methods for Ordinary Differential Equations Systems with Small Parameter with Applications in Kinetics Chemistry*, World Wide Journal of Multidisciplinary Research and Development, Vol. 3, No. 12, pp. 216 – 220, 2017
<https://wwjmr.com/archive/2017/12/650/numerical-methods-for-ordinary-differential-equations-systems-with-small-parameter-with-applications-in-kinetics-chemistry>
27. M. Ilea, **M. Turnea**, M. Rotariu, D. Arotaritei, R. Filip Robert, *Fusion of Variables and Processes. Optimization in Prosthetics using Regression Models*, World Wide Journal of Multidisciplinary Research and Development, Vol. 3, No. 9, pp. 390 – 394, 2017
<https://wwjmr.com/archive/2017/9/463/fusion-of-variables-and-processes-optimization-in-prosthetics-using-regression-models>
28. A.C. Ionite, R. Mariana, **M. Turnea**, A. Gheorghita, *Hydrokinetotherapy combined with facilitation techniques in the recovery of osteoarthritis*, Balneo Research Journal, Vol 8., No. 4, pp. 241-244, 2017
<http://bioclima.ro/Balneo158.pdf>
29. A.C. Ionite, R. Mariana, **M. Turnea**, A. Gheorghita, *The use of combined techniques: Scottish showers, hot bath and manual techniques in the treatment of migraine headache*, Balneo Research Journal, Vol 8., No. 4, pp. 245-247, 2017

<http://bioclima.ro/Balneo159.pdf>

30. M. Ilea, **M. Turnea**, D. Arotaritei, M. Rotariu, *Modeling Complex Stump-Prosthesis with Graphical User Interface*, The Annals of „Dunărea de Jos” University of Galati, Fascicle III, Vol. 40, No. 1, pp. 13-18, ISSN-L 1221-454X, 2017
<http://www.ann.ugal.ro/eeai/>
31. C. Ionite, **M. Turnea**, M. Rotariu, *A statistical approach to data collected at the foot map level in simulating the evolution of osteitis pubis*, The 14th International Scientific Conference eLearning and Software for Education Bucharest, Vol. 3. Pag. 433-440, 2018
<http://proceedings.elseconference.eu/index.php?r=site/index&year=2018&index=papers&vol=29&paper=55ff637d18e6c29047c6eb128527ac49>
32. **M. Turnea**, D. Arotaritei, M. Ilea, A. Gheorghita, *Graphic interface for identification and analysis of t-wave with applications in cardiology, tutorial for bioengineering education*, The 13th International Scientific Conference eLearning and Software for Education, vol.3, pp. 585-592, 2017
<http://proceedings.elseconference.eu/index.php?r=site/index&year=2017&index=papers&vol=26&paper=8b559698d4dc484db0e31a56068b368b>
33. M. Ilea, D. Arotaritei, M. Rotariu, **M. Turnea**, *Modeling of sanguine flow different vascular diseases*, The 13th International Scientific Conference eLearning and Software for Education, vol.3, pp. 529-536, 2017
<http://proceedings.elseconference.eu/index.php?r=site/index&year=2017&index=papers&vol=26&paper=1a37e76b49edb267de725078f17d924d>
34. **M. Turnea**, D. Arotaritei, M. Ilea, G. Constantin, M. Rotariu, *Crack developement in linear using Caginalp phase field model*, Journal Proceedings in Manufacturing System, Vol. 10, nr.1, pp. 45-50, 2015
http://icmas.eu/Journal_archive_files/Vol_10-Issue1_2015_PDF/39-44_TURNEA.pdf
35. C. Corciova, **M. Turnea**, R. Ciorap, *Risk Management for Medical Devices*, Advances in Biomedicine and Health Science, Proceedings of the 2nd International Conference on Biomedicine and Health Engineering (BIHE'13&HSBS'13), pp.51-56, 2013
<http://www.wseas.us/e-library/conferences/2013/Brasov/BIOMED/BIOMED-07.pdf>
36. M. Rotariu, D. Arotaritei, M. Turnea, R. Filep, *Hypertrophic Scar Formation Model Applied to Blunt-Prosthesis Interface: Forming by Accretion*, Proceedings in Manufacturing Systems, Volume 8, Issue 2, pp. 105-110, 2013
http://www.icmas.eu/Journal_archive_files/Vol_8-Issue2-2013-PDF/105-110_ROTARIUr_v4.pdf
37. M. Ilea, **M. Turnea**, M. Rotariu, *Differential Equations with Applications in Cancer Diseases*, Rev. Med. Chir. Soc. Med. Nat, Vol 117, Nr.2, 572-577, 2013
http://www.revmedchir.ro/uploads/1/5/7/2/15722076/42_ilea_m_bim_ao.pdf
38. C. Corciova, **M. Turnea**, D. Matei, D. Andritoi, *Evaluation of cardiac parameters using electrical impedance plethysmography*, Rev. Med. Chir. Soc. Med. Nat., vol. 116, nr. 3, 927-934, 2012
http://www.revmedchir.ro/uploads/1/5/7/2/15722076/47_bim_ao_4_corciova_c_c_926-932.pdf
39. AI Galaction, **M. Turnea**, D. Cascaval, *Glucose Mass Transfer in Alcoholic Fermentation Using Stirred Beds of Immobilized S. Cerevisiae Cells*, Single Cell Genomics & Proteomics, Vol.1:101, pp. 2-6, doi:10.4172/jscgp.1000101, 2012
<http://www.omicsgroup.org/journals/ArchiveJSCGP/articleinpressJSCGP.php>
40. M. Ilea, **M. Turnea**, *Stiff equation with application in ovarian cancer diseases*, Annals of Spiru Haret University: Mathematics-Informatics Series, Vol.8, Nr.1, 5-16, 2012
<http://anale-mi.spiruharet.ro/archive.html>
41. A. Corciova, L. Vlase, C. Ciobanu, **M. Turnea**, *Development and Validation of an HPLC-DAD Method for Determination of Diosmin and Hesperidin*, Buletinul Institutului Politehnic din Iasi, Tomul LVIII (LXII), Fasc. 1, 177-185, 2012
http://www.tuiasi.ro/users/110/Bul_IPI_2012_1.pdf

42. D. Cașcaval, AI Galaction, **M. Turnea**, *Implicatiile difuziei interne in biodegradarea lipidelor cu celule imobilizate de bacillus sp. Dispuse in strat fix de tip „Basket”*, Rev. Med. Chir. Soc. Med. Nat., vol. 116, nr. 1, 228-232, 2012
<http://www.revmedchir.ro/index.php?loc=editions&ed=25>
43. M. Ilea, **M. Turnea**, *Stiff Equations with Applications in Thermal Decomposition of Ozone*, Analele Universitatii „Dunarea de Jos”, Fascicola II, Matematica, Fizica, Mecanica teoretica, Anul III(XXXIV), Nr.2, pp.191-202, 2011
<https://openurl.ebsco.com/EPDB%3Agcd%3A2%3A1277346/detailv2?sid=ebsco%3Aplink%3Ascholar&id=ebsco%3Agcd%3A85275231&crl=f>
44. D.Arotaritei, **M. Ilea**, M. Turnea, *Boundary functions method from differential equations systems with small parameter in enzyme kinetics*, International Journal of Mathematical Modeling, Simulation and Applications (IJMMSA), Vol 2(1), pag. 77-91, 2009
45. D. Arotaritei, **M. Turnea**, M. Ilea, *Boundary function method from Differential equations with small parameter in cancer diseases*, International Journal of Mathematical Modeling, Simulation and Applications (IJMMSA), Vol 1(2), pp. 137-148, 2008
46. D. Arotaritei, C.M. Toma, **M. Turnea**, V. Toma, *Intelligent Platform for Medical Services, Support for Decision Optimization in Virtual Medical Communities*, Revista Medico-Chirurgicala, Vol.112, Nr.2, pp. 538-541, 2008
<https://pubmed.ncbi.nlm.nih.gov/19295034/>
47. M. Ilea, D. Arotaritei, **M. Turnea**, *Application of Mass-Pope asymptotic method in the two-species interaction model*, Analele Universitatii Bucuresti, Matematica-Informatica, Anul LVI-2007, pp. 85-94, 2007
http://old.fmi.unibuc.ro/ro/anale/informatica/anala_info_anul_lvi_2007_nr1_art5.pdf
48. **M. Turnea**, D. Arotaritei, I. Mihai, S. Moruz, *The Evaluation of epidemiological models using Complex Network*, Analele Universitatii Bucuresti, Matematica-Informatica, Anul LVI-2007, pp. 120-131, 2007
http://old.fmi.unibuc.ro/ro/anale/informatica/anala_info_anul_lvi_2007_nr1_art8.pdf

E. Articole publicate în volume ale conferințelor neindexate

1. M. Turnea, A. Gheorghită, M. Ilea, L.Toma, I. Duducă, *Rolul realității virtuale, al imagisticii medicale și al modelării 3D în planificarea chirurgicală complexă și reconstrucția fetală bazată pe ecografie*, Conferința Națională Rolul Spitalelor Municipale, Orășenești, MonoSpecialitate în îmbunătățirea calității actului medical, prezent și perspective 29-30 August 2025
<https://conferinta-spbuhusi.ro/index.php/2024/09/10/editia-a-v-a/>
2. I. Duducă, A. Gheorghită, M. Ilea, I. Condurache, C. Mucileanu, M. Turnea, M.Rotariu, *Tehnologii moderne în reabilitarea funcției mâinii: realitate virtuală și viziune computerizată*, Conferința Națională Rolul Spitalelor Municipale, Orășenești, MonoSpecialitate în îmbunătățirea calității actului medical, prezent și perspective 29-30 August 2025
<https://conferinta-spbuhusi.ro/index.php/2024/09/10/editia-a-v-a/>
3. A. Gheorghită, M. Ilea, I. Duducă, M. Rotariu, M. Turnea, *Aplicabilitatea modelelor lingvistice mari în domeniul bioingineriei medicale: oportunități, provocări și aplicații*, Conferința Națională Rolul Spitalelor Municipale, Orășenești, MonoSpecialitate în îmbunătățirea calității actului medical, prezent și perspective 29-30 August 2025
<https://conferinta-spbuhusi.ro/index.php/2024/09/10/editia-a-v-a/>
4. **M. Turnea**, D Arotaritei, I Condurache, A Gheorghită, M. Rotariu, *Automatic Classification in Physiotherapy Exercises using Deep Learning, a Prospective Study for Evaluation of Balneotherapy Effects on Musculoskeletal Diseases*, National Congress of Physical and Rehabilitation Medicine & Balneology, 2024
<https://bioclima.ro/Ab2024.pdf>

5. A Gheorghita, M Rotariu, D Arotaritei, I Condurache, **M Turnea**, M Ilea, *Multi-compartment Within Host Model for analyze the relationship between severity of COVID-19 and sleep apnea influence*, National Congress of Physical and Rehabilitation Medicine & Balneology, 2024
<https://bioclima.ro/Ab2024.pdf>
6. M Rotariu, **M Turnea**, A Nichita, C Mucileanu, A Gheorghită, I Condurache, *Hippotherapy used in medical recovery*, National Congress of Physical and Rehabilitation Medicine & Balneology, 2024
<https://bioclima.ro/Ab2024.pdf>
7. I Condureche, C Ionițe, **M Turnea**, V Baniță, C Mucileanu, M Rotariu, *Recovery of the patient with NIEMANN-PICK type B disease*, National Congress of Physical and Rehabilitation Medicine & Balneology, 2024
<https://bioclima.ro/Ab2024.pdf>
8. C Mucileanu, AC Spiridon, **M Turnea**, I Condurache, M Rotariu, *Kinetic methods used in the postoperative recovery of a patient diagnosed with a puncture wound and foreign body retention in the middle third of the posterior face of the left forearm*, National Congress of Physical and Rehabilitation Medicine & Balneology, 2024
<https://bioclima.ro/Ab2024.pdf>
9. M. Rotariu, M. Turnea, A. Nechita, C. Mucileanu, A. Gheorghită, I. Condurache, *Terapia cu cai. Hipoterapia, Rolul spitalelor municipal, orașenești, mono-specialitate în îmbunătățirea calității actului medical, prezent și perspective*, Buhusi, 2024
<https://conferinta-spbuhusi.ro/index.php/2023/09/25/prezentari-materiale-editia-a-iv-a/>
10. M. Turnea, M. Rotariu, D. Arotăriței, I. Duduca, A. Gheorghită, I. Condurache, *Utilizarea realității virtuale și a printării 3D ca soluție inovatoare în planificarea intervențiilor chirurgicale avansate, Rolul spitalelor municipal, orașenești, mono-specialitate în îmbunătățirea calității actului medical, prezent și perspective*, Buhusi, 2024
<https://conferinta-spbuhusi.ro/index.php/2023/09/25/prezentari-materiale-editia-a-iv-a/>
11. A.Gheorghită, I. Condurache, M. Rotariu, M. Ilea, I. Duduca, M. Turnea, *Reducerea infecțiilor nosocomiale prin controlul mouse-ului fără contact în spitale, Rolul spitalelor municipal, orașenești, mono-specialitate în îmbunătățirea calității actului medical, prezent și perspective*, Buhusi, 2024
<https://conferinta-spbuhusi.ro/index.php/2023/09/25/prezentari-materiale-editia-a-iv-a/>
12. I.Duduca, A. Gheorghită, M. Ilea, C. Mucileanu, M. Turnea, *Utilizarea inteligenței artificiale în detecția și optimizarea diagnosticului fracturilor mecanice ale osului, Rolul spitalelor municipal, orașenești, mono-specialitate în îmbunătățirea calității actului medical, prezent și perspective*, Buhusi, 2024
<https://conferinta-spbuhusi.ro/index.php/2023/09/25/prezentari-materiale-editia-a-iv-a/>
14. A. Gheorghită, I. Condurache, M. Rotariu, **M. Turnea**, *The use of artificial intelligence in computer-aided diagnosis of medical condition*, Balneo and PRM Research Journal 2023/ Congresul Național de Medicină Fizică de Recuperare și Balneologie, 2023
<https://bioclima.ro/AV2023.pdf>
15. **M. Turnea**, A. Gheorghită, I. Condurache, M. Rotariu, *Rebuilding life after stroke: The use virtual reality in the physical and psychological recovery of patient*, Balneo and PRM Research Journal 2023/ Congresul Național de Medicină Fizică, de Recuperare și Balneologie, 2023
<https://bioclima.ro/AV2023.pdf>
16. M. Rotariu, M. Turnea, A. Nechita, C. Mucileanu, A. Gheorghită, I. Condurache, *Terapia cu cai. Hipoterapia, Rolul spitalelor municipal, orașenești, mono-specialitate în îmbunătățirea calității actului medical, prezent și perspective*, Buhusi, 30-31August 2024
<https://conferinta-spbuhusi.ro/index.php/2023/09/25/prezentari-materiale-editia-a-iv-a/>
17. M. Turnea, M. Rotariu, D. Arotăriței, I. Duduca, A. Gheorghită, I. Condurache, *Utilizarea realității virtuale și a printării 3D ca soluție inovatoare în planificarea intervențiilor chirurgicale avansate*,

Rolul spitalelor municipale, orașenești, mono-specialitate în îmbunătățirea calității actului medical, prezent și perspective, Buhuși, 30-31 August 2024

<https://conferinta-spbuhusi.ro/index.php/2023/09/25/prezentari-materiale-editia-a-iv-a/>

18. A. Gheorghita, I. Condurache, M. Rotariu, M. Ilea, I. Duduca, M. Turnea, *Reducerea infecțiilor nosocomiale prin controlul mouse-ului fără contact în spitale*, Rolul spitalelor municipale, orașenești, mono-specialitate în îmbunătățirea calității actului medical, prezent și perspective, Buhuși, 30-31 August 2024

<https://conferinta-spbuhusi.ro/index.php/2023/09/25/prezentari-materiale-editia-a-iv-a/>

19. I. Duduca, A. Gheorghita, M. Ilea, C. Mucileanu, M. Turnea, *Utilizarea inteligenței artificiale în detecția și optimizarea diagnosticului fracturilor mecanice ale osului*, Rolul spitalelor municipale, orașenești, mono-specialitate în îmbunătățirea calității actului medical, prezent și perspective, Buhuși, 30-31 August 2024

<https://conferinta-spbuhusi.ro/index.php/2023/09/25/prezentari-materiale-editia-a-iv-a/>

20. M. Rotariu, V. Băniță, A. Haja-Deac, **M. Turnea**, A. Gheorghita, I. Condurache, *Ludotherapy in the rehabilitation of patients with Coffin Lowry syndrome*, Balneo and PRM Research Journal 2023/ Congresul Național de Medicină Fizică, de Recuperare și Balneologie, 2023

<https://bioclima.ro/AV2023.pdf>

21. I. Condurache, C. Mucileanu, A. Agaghi, **M. Turnea**, C. Ionițe, M. Rotariu, *Patients recovery after Lisfranc injury*, Balneo and PRM Research Journal 2023/ Congresul Național de Medicină Fizică, de Recuperare și Balneologie, 2023

<https://bioclima.ro/AV2023.pdf>

22. C. Ionițe, M. Rotariu, I. Condurache, **M. Turnea**, *The effects of exercises in sagittal plane of the spine on the posterior balance of the human body*, Balneo and PRM Research Journal 2023/ Congresul Național de Medicină Fizică, de Recuperare și Balneologie, 2023

<https://bioclima.ro/AV2023.pdf>

23. M. Rotariu, A. Gheorghita, D. Arotăritei, M. Ilea, **M. Turnea**, *Optimizarea timpului de intervenție al autovehiculelor cu regim de circulație prioritară*, Conferința „Rolul spitalelor orașenești mono-specialitate în îmbunătățirea actului medical, prezent și perspective”, 2023

<https://conferinta-spbuhusi.ro/index.php/2023/09/25/prezentari-materiale-editia-a-iv-a/>

24. A. Gheorghita, **M. Turnea**, M. Ilea, D. Arotăritei, M. Rotariu, *Tehnici și algoritmi moderni de evacuare a persoanelor cu dizabilități utilizând Realitatea Virtuală*, Conferința „Rolul spitalelor orașenești mono-specialitate în îmbunătățirea actului medical, prezent și perspective”, 2023

<https://conferinta-spbuhusi.ro/index.php/2023/09/25/prezentari-materiale-editia-a-iv-a/>

25. A. Gheorghita, D. Arotăritei, FC Manea, **M. Turnea**, A. Filipescu, *Diagnosis of pediatric wrist trauma through Artificial Intelligence-assisted X-ray analysis*, Euroinvent 2023

https://www.euroinvent.org/cat/EUROINVENT_2023.pdf

26. A. Gheorghita, **M. Turnea**, M. Rotariu, M. Andriesei, I. Pampu, I. Duduca, *Enhancing road safety by integrating face recognition and eye tracking for real-time detection of driver drowsiness*, Euroinvent 2023

https://www.euroinvent.org/cat/EUROINVENT_2023.pdf

27. I. Condurache, C. Ionițe, **M. Turnea**, M. Rotariu, A. Gheorghita, *Rehabilitation Gaming Systems*, Euroinvent 2023

https://www.euroinvent.org/cat/EUROINVENT_2023.pdf

28. **M. Turnea**, M. Rotariu, D. Arotăritei, A. Gheorghita, *Augmented Reality Based Guidance System for Visually Impaired People*, eLSE Conference, 12-13 Mai, București, 2022

<https://proceedings.elseconference.eu/index.php?r=site/index&year=2022&index=papers&vol=42&paper=ec0d18e002eb926cab60f55f19d08ddc>

29. M. Rotariu, A. Gheorghită, C. Zaharia, G. Croitoru, **M. Turnea**, I. Condurache, *Recovery of the Patient with Spastic Paraparesis. Case Presentation*, Congresul Național de Medicină fizică, de recuperare și balneologie, Slănic Moldova, 2022
<https://bioclima.ro/AV2022.pdf>
30. G. Viscotel, M. Rotariu, **M. Turnea**, D. Arotăritei, C. Mereuță, I. Condurache, A. Gheorghită, *Improving doping prevention and control programs for sports practitioners*, Congresul Național de Medicină fizică, de recuperare și balneologie, Slănic Moldova, 2022
<https://bioclima.ro/AV2022.pdf>
31. I. Duducă, I. Pampu, M. Andriesei, A. Gheorghită, **M. Turnea**, D. Arotăritei, *Prealert System for Improving emergency vehicles movement*, Euroinvent, Mai, 2022
https://www.euroinvent.org/cat/EUROINVENT_2022.pdf
32. **M. Turnea**, M. Rotariu, D. Arotăritei, A. Gheorghită, M. Ilea, *COVID-19, dynamic infection rate, a predictor for balneotherapy management*, Congresul Național de Medicină fizică, de recuperare și balneologie, Slănic Moldova, 2022
<https://bioclima.ro/AV2022.pdf>
33. **M. Turnea**, *Sisteme suport pentru optimizarea deciziilor terapeutice*, Conferința „Rolul spitalelor orășenești mono-specialitate în îmbunătățirea actului medical, prezent și perspective”, Buhusi, 2021
<https://conferinta-spbuhusi.ro/index.php/editia-a-ii-a/>
34. **M. Turnea**, D. Arotăritei, C. Ionite, I. Condurache, M. Rotariu, *Contribution of Factors in Regression Analyze with Application in Kinetotherapy and Sports Medicine*, Romanian Congress of Physical and Rehabilitation Medicine & Balneology, Iasi, 2-5 sept. 2020
<https://bioclima.ro/Abstracte2020.pdf>
35. <https://bioclima.ro/Abstracte2020.pdf>
36. M. Rotariu, **M. Turnea**, D. Arotăritei, I. Avram, *Biological Models for Sulphurous Thermal Water Inhalation, Simulated from a Numerical Perspective*, Romanian Congress of Physical and Rehabilitation Medicine & Balneology, Iasi, 2-5 sept. 2020
<https://bioclima.ro/Abstracte2020.pdf>
37. D. Arotăritei, I. Condurache, **M. Turnea**, C. Ionite, M. Rotariu, *Fuzzy Regression Models as Model of Relationship among Variables, a Prospective Analysis for Applications in Kinetotherapy*, Romanian Congress of Physical and Rehabilitation Medicine & Balneology, Iasi, 2-5 sept. 2020
<https://bioclima.ro/Abstracte2020.pdf>
38. **M. Turnea**, M. Rotariu, M. Ilea, A. Gheorghita, D. Arotăritei, *A Proposal for Constrained Optimal Path using Metaheuristic Algorithm in a Framework with Polygonal Objects*, , 13th Edition Education and Creativity for a Knowledge Based Society, 14-16 Noiembrie, Bucuresti, ISSN 2248-0064, 2019
https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2886235
39. M. Rotariu, D. Arotăritei, I. Onu, **M. Turnea**, C. Ionite, *The Effects of Physiotherapy Means in the Recovery of Muscular Injuries in Athelthics*, 13th Edition Education and Creativity for a Knowledge Based Society, 14-16 Noiembrie, Bucuresti, ISSN 2248-0064, 2019
https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2886235
40. A.C. Ionite, M. Rotariu, **M. Turnea**, A. Gheorghita, *Hydrokinetotherapy combined with facilitation techniques in the recovery of osteoarthritis*, Congresul Național de Balneologie, 4 - 7 Mai 2017, Baile Govora, 2017
<https://bioclima.ro/Balneo144.pdf>
41. A.C. Ionite, M. Rotariu, **M. Turnea**, A. Gheorghita, *The use of combined techniques: Scottish showers, hot bath and manual techniques in the treatment of migraine headache*, Congresul Național de Balneologie, 4 - 7 Mai 2017, Baile Govora, 2017
<https://bioclima.ro/Balneo144.pdf>
42. **M. Turnea**, M. Ilea, C. Corciova, D. Arotăritei, M. Rotariu, *Modeling of Aggressive Tumor Growth with Ordinary Differential Equations Systems*, Bulletin of Romania Society for Cell Biology, SNBC 2014, Nr. 42, pp.82, 2014
43. M. Rotariu, M. Ilea, **M. Turnea**, C. Corciova, *Differential Equations of infectious Diseases*, Bulletin of Romania Society for Cell Biology, SNBC 2014, Nr. 42, pp.84, 2014

44. M. Rotariu, M. Ilea, D. Arotaritei, **M. Turnea**, *Differential Equations Systems with Application in Cancer Chemotherapy*, Bulletin of Romania Society for Cell Biology, SNBC 2014, Nr. 42, pp.85, 2014
45. C. Corciova, **M. Turnea**, M. Rotariu, F. Corciova, *Modelling the Change in Blood Electrical Conductivity*, Bulletin of Romania Society for Cell Biology, SNBC 2014, Nr. 42, pp.70, 2014
46. **M. Turnea**, C. Corciova, M. Rotariu, *Modeling and Simulation of Muscle Mechanics*, 5th International Conference „Biomaterials, Tissue Engineering & Medical Devices”, BiomMedD, 29 August-1 septembrie, 2012
<https://srb.ro/biommedd2012>
47. L. Rumelea, A. M. Lupasteanu, **M. Turnea**, L. Kloetzer, A. I. Galaction, A. C. Blaga, D. Cascaval, *External and internal diffusion of lipids in biodegradation process with stirred beds of immobilized Bacillus spp. Cells*, 15th European Congress on BIOTECHNOLOGY of the European Federation of Biotechnology - ECB15, Istanbul, 2012
<https://srb.ro/biommedd2012>
48. M. Rotariu, **M. Turnea**, C. Corciova, *Modeling, Analysis and Simulation Blunt-Prosthesis-Rod Complex*, 5th International Conference „Biomaterials, Tissue Engineering & Medical Devices”, BiomMedD, 29 August-1 septembrie, 2012
49. C. Corciova, **M. Turnea**, R. Ciorap, F. Corciova, *Medical System for Estimating Blood Flow*, 5th International Conference „Biomaterials, Tissue Engineering & Medical Devices”, BiomMedD, 29 August-1 septembrie, 2012
<https://srb.ro/biommedd2012>
50. M. Rotariu, **M. Turnea**, M. Ilea, *Modeling and Simulation of Heating Devolution in Hydrokinetotherapy*, 5th International Conference „Biomaterials, Tissue Engineering & Medical Devices”, BiomMedD, 29 August-1 septembrie, 2012
<https://srb.ro/biommedd2012>
51. **M. Turnea**, M. Ilea, C. Corciova, M. Rotariu, *Differential equations modeling biological phospholipid pathway*, Proceedings of the International Congress of Romanian Society for Cell Biology, 2012
52. **M. Turnea**, M. Ilea, M. Rotariu, C. Corciova, *Mathematical modeling of tumour growth with Matlab*, Proceedings of the International Congress of Romanian Society for Cell Biology, 2012
53. M. Rotariu, **M. Turnea**, M. Ilea, C. Corciova, *Mathematical models of atherosclerosis*, Proceedings of the International Congress of Romanian Society for Cell Biology, 2012
54. M. Ilea, **M. Turnea**, C. Corciova, M. Rotariu, *Mathematical model of cancer stem cells*, Proceedings of the International Congress of Romanian Society for Cell Biology, 2012
55. C. Corciova, M. Ilea, **M. Turnea**, F. Corciova, *Modeling of blood flow in the circulatory system using finite element*, Proceedings of the International Congress of Romanian Society for Cell Biology, 2012
56. A.I. Galaction, D. Cascaval, **M. Turnea**, *Bioreactor tip „Basket” pentru biocatalizatori imobilizati*, the 16-the International Salon of Research, Innovation and Technology Transfer, 13-15 June, Iasi, 2012
57. **M. Turnea**, A.I. Galaction, D. Cascaval, *Interfata grafica pentru modelarea si optimizarea sistemelor de agitare multipla din bioreactoare*, the 16-the International Salon of Research, Innovation and Technology Transfer, 13-15 June, Iasi, 2012
58. A.Cârlescu, A.C. Blaga, M. Poștaru, **M. Turnea**, L. Kloetzer, A.I. Galaction, D. Cașcaval, *Le transfert de masse interfaciale dans l'extraction reactive directe de l'acide propionique en suspension de propionibacterium acidipropionici*, Septième Colloque Franco-Roumain de Chimie Appliquée, 27 – 29 Juin, Bacău, 2012
59. L. Rumelea, A.M. Lupasteanu, **M. Turnea**, A.I. Galaction, D. Cascaval, *Diffusion des lipides dans le processus de biodegradation dans un bioreacteur type „Basket” avec cellules immobilisees bacillus SPP.*, Septième Colloque Franco-Roumain de Chimie Appliquée, 27 – 29 Juin, Bacău, 2012
60. **M. Turnea**, C. Corciova, M. Ilea, *Modelling and Simulation of DNA-Microarrays by Ordinary Differential Equations*, 3RD International Congress and 29th Annual Scientific Session of Romanian Society for Cell Biology, 8-12 iunie, Arad-Szeged, ISSN: 1584-5532, 2011

61. M. Ilea, **M. Turnea**, C. Corciova, *Mathematical model with Small Parameter with Applications in Ovarian Cancer Diseases*, 3RD International Congress and 29th Annual Scientific Session of Romanian Society for Cell Biology, 8-12 iunie, Arad-Szeged, ISSN: 1584-5532, 2011
62. C. Corciova, M. Ilea, **M. Turnea**, *Using Mathematical Models to Characterize Blood Flow*, 3RD International Congress and 29th Annual Scientific Session of Romanian Society for Cell Biology, 8-12 iunie, Arad-Szeged, ISSN: 1584-5532, 2011
63. **M. Turnea**, A.I. Galaction, D. Cascaval, *Graphical Interface for Modeling of Interphasic Mass Transfer in Bioreactors*, Euroinvent 2011
<https://www.euroinvent.org/cat/e2011.pdf>
64. **M. Turnea**, A.I. Galaction, D. Cașcaval, *Graphical Interface for Modeling and Optimizing the Multiple Impellers Systems in Bioreactors*, Euroinvent 2010
<https://www.euroinvent.org/cat/e2010.pdf>
65. A.I. Galaction, D. Cascaval, **M. Turnea**, A. C. Blaga, L. Kloetzer, *Facilitated pertraction of p-amino and p-hydroxybenzoic acids in pseudosteady-state conditions*, 19th International Congress of Chemical and Process Engineering, Praga, August-Septembrie, 2010
<http://www.chisa.cz/2010/ProgramFin/P3.aspx>
66. E. Folescu, **M. Turnea**, R. Rotaru, A.I. Galaction, D. Cașcaval, *Enhancement of Oxygen Mass Transfer in Bioreactors using Oxygen-Vectors*, 7th International Conference of Chemical Societies from South-East European Countries, Bucuresti, Septembrie, 2010
67. D. Arotăriței, **M. Turnea**, M. Ilea, C. Toma, *A web Application for Analysis of a Tumour in Ovarian Cancer using Mathematical Model of Diffusion*, 11th European Conference E_Comm_Line, București, septembrie, 2010
68. A.I. Galaction, D. Cascaval, **M. Turnea**, A. C. Blaga, L. Kloetzer, *Facilitated pertraction of p-amino and p-hydroxybenzoic acids in pseudosteady-state conditions*, 19th International Congress of Chemical and Process Engineering, Praga, August-Septembrie, 2010
69. M. Ilea, **M. Turnea**, D. Arotăriței, *Mathematical Model which Small Parameter which Model the Ovarian Cancer*, International Journal of Mathematical Modelling Simulation and Applications, vol.3, No.1, pp.77-85, 2010
70. C. Dănăilă, R. Chiriță, **M. Turnea**, R.P. Dobrin, V. Chiriță, *Drug Addiction-epidemiological Correlations*, Bulletin of Integrative Psychiatry, No 2(45), pp.47-54, 2010
<https://www.buletindepsihiatrie.ro/Articol62c.html?id=36>
71. C. Dănăilă, R. Chiriță, **M. Turnea**, V. Chiriță, *Epidemiological Models in Drug Addiction*, Romanian Journal of Psychopharmacology, Vol.10, no2, 2010
72. M. Lupășteanu, A. I. Galaction, **M. Turnea**, D. Cascaval, *Distribution of mixing efficiency in bioreactors with stirred beds of immobilized yeasts cells*, Proceedings of European BioPerspectives 2008, Hannover, October 7-9, 2008
73. A.I. Galaction, E. Folescu, **M. Turnea**, D. Cascaval, *Comparative analysis of mixing efficiency for different radial impellers in non-aerated yeasts cultures*, 33rd International Conference of Slovak Society of Chemical Engineering, Tatranska Matliare, Mai, 2006
74. D. Baran, **M. Turnea**, F. Topoliceanu, I. Amariutei, *Mathematical Modelling of Red Blood Parietal Adhesiveness*, A-XIX-a Conferința Internațională de Inventică „Cercetări și Tehnologii Inovative Performante” 30mai-2 iunie Iasi, ISBN (10):978-973-730-378-3, pag. 291-300, 2007
75. D. Arotăritei, **M. Turnea**, A. Barleanu, *Mining Linguistic Graph Structures in World Wide Webs*, 9th International Symposium on Automatic Control and Computer Science, SACCS, 16-18 Noiembrie, Iasi, 2007
76. D. Arotăritei, M. Ilea, **M. Turnea**, C. Bradea, *Experiments with Parallel Approach of Stochastic Epidemic Models for Grid Service Applications*, 9th International Symposium on Automatic Control and Computer Science SACCS, 16-18 Noiembrie, Iasi, 2007
77. D. Baran, **M. Turnea**, Fl. Topoliceanu, I. Amariutei, *Circulating Blood Cell Deformability Estimation using Modelling Techniques*, Analele Societății Naționale de Biologie celulară, Vol.XI, ISSN 1583-6258, pag. 729-733, 2006

78. D. Baran, **M. Turnea**, R. F. Ciofea, G.I. Pandele, *Profilul circadian al tensiunii arteriale sub tratamentul cu tertensif*, Zilele Spitalului Clinic de Recuperare Iași, Ediția a-IV-a, Iasi, Revista Medico-chirurgicală Nr.2, Supliment1, Vol.110, 2006
79. D. Baran, R. Ciofea, **M. Turnea**, M. Felea, G.I. Pandele, *Circadian profiles of arterials pressure under atihypertensive medication in the elderly*, 29th Balkan Medical Week, Varna, Bulgaria, 28-30 Septembrie, 2006
80. D. Baran, **M. Turnea**, R. Ciofea, D. Turcanu, G.I. Pandele, *Influenta unor antihipertensive asupra variatiilor circadiene ale presiunii arteriale*, a-XX-a Conferinta Nationala a Societatii Romane de Stiinte Fiziologice, Sibiu, 26-28 Mai, ISSN 1221-2873, pag.10-12, 2005
81. D. Baran, **M. Turnea**, Fl. Topoliceanu, *Caracterizarea rețelelor microvasculare prin analiza fractala*, Zilele Facultatii de Medicina Dentara, 4-6 Martie, ISBN 973-7906-62-4, pag.343-349, 2005
82. A. I. Galaction, D. Cascaval, C. Oniscu, **M. Turnea**, *Bioreactorul - cheia performantelor unui proces biotehnologic*, 125 de Ani de Invatamint Medical Superior la Iasi, Iasi, noiembrie 2004
83. **M. Turnea**, D. Baran, D. Andrițoi, *Modelarea rețelelor microvasculare ca structuri fractale*, Analele Societății Naționale de Biologie Celulară, ISSN 1583-6258, pag.62-69, 2004
84. **M. Turnea**, D. Baran, D. Andrițoi, *Organizarea geometrică a spațiului microcirculator evaluată prin dimensiunea fractală; aspecte funcționale*, Analele Societății Naționale de Biologie Celulară, ISSN 1583-6258, pag.48-56, 2004
85. A. I. Galaction, D. Cascaval, C. Oniscu, **M. Turnea**, *Intensification of oxygen transfer in stirred bioreactors using oxygen-vectors*, The 5th European Symposium on Biochemical Engineering Science, Stuttgart, 8 - 11 septembrie, 2004
86. A. I. Galaction, D. Cascaval, C. Oniscu, **M. Turnea**, *Modelling of oxygen transfer in stirred bioreactors for bacteria, yeasts and fungus broths*, 16th International Congress of Chemical and Process Engineering CHISA, Praga, 22 - 26 august, 2004
87. C. Corciovă, **M. Turnea**, D. Baran, *Computational Nonlinear Analysis of Electromyogram*, Trends in Clinical and Experimental Physiology, Timisoara, 2004
88. **M. Turnea**, D. Baran, C. Corciovă, *Teoria câmpului fazelor aplicată unor sisteme amfifilice cu autoorganizare*, Simpozionul Național de Biomateriale, ISBN 973-627-067-X, pag. 9-16, 2003
89. D. Baran, **M. Turnea**, C. Corciovă, *Metode biomatematice de caracterizare a interfeței biomaterial-țesut gazdă*, Analele Societății Naționale de Biologie Celulară, vol.8, ISSN 1583-6258, pag.490-497, 2003
90. **M. Turnea**, D. Baran, C. Corciovă, A. Bădescu, *Caracterizarea microtopografiei de suprafață a osului spongios prin analiza fractală*, Analele Societății Naționale de Biologie Celulară, vol.8, ISSN 1583-6258, pag.474-481, 2003
91. D. Baran, **M. Turnea**, C. Corciovă, A. Bădescu, *Aplicații ale matematicii moderne în evaluarea histomorfometrică*, Rev Med Chir Soc Med Nat Iasi, Vol 107 (3), supl. 1, pp. 522-527, 2003
92. **M. Turnea**, D. Baran, C. Corciovă, A. Bădescu, *Tensegitatea și integrarea citotisulară a biomaterialelor*, Simpozionul National de Biomateriale, Volum de referate, ISBN 973-652-808-3, pag. 64-70, 2002
93. D. Baran, **M. Turnea**, C. Corciovă, A. Bădescu, *Analiza Fractală în caracterizarea interfeței Biomaterialelor*, Simpozionul National de Biomateriale, Volum de referate, ISBN 973-652-808-3, pag. 58-64, 2000

F. Premii

1. C. Baba Taiki, A. Gheorghita, M. Ilea, I. Condurache, C. Mucileanu, M. Turnea, M. Rotariu, *Hand Rehabilitation with VR and Computer Vision – RehabKnight*, Euroinvent 2025, GOLD MEDAL
2. A. Gheorghita, A. Manoliu, V. Vicol, I. Duduca, M. Rotariu, M. Turnea, *AI-Powered Holographic Virtual Teacher – Innovation in Education*, Euroinvent 2025, SILVER MEDAL
3. M. Rotariu, C. Mucileanu, I. Condurache, A. Gheorghita, M. Turnea, *New sensory devices for the recovery of plantar proprioception post-stroke*, Euroinvent 2025, SILVER MEDAL

4. A. Gheorghita, I. Duduca, M. Turnea, I. Condurache, Kinetic recovery of finger joints using inertial sensors and pneumatic gloves, Congresul Aniversar Reunit de Medicină Fizică de Recuperare și Balneoclimatologie, Iunie, 2025, PREMIUL I
5. M. Rotariu, G. Dascalu, M. Turnea, C. Mucileanu, C. Ionite, I. Condurache, Kinetic techniques for developing motor skills in patient with autism, Congresul Aniversar Reunit de Medicină Fizică de Recuperare și Balneoclimatologie, Iunie, 2025, PREMIUL III
6. M. Turnea, A. Gheorghita, I. Duduca, C. Mucileanu, Mathematical modeling and adaptive control of rehabilitation systems using artificial intelligence, Congresul Aniversar Reunit de Medicină Fizică de Recuperare și Balneoclimatologie, Iunie, 2025, PREMIUL III
7. I. Duduca, A. Gheorghita, M. Turnea, M. Rotariu, Kinematic analysis of the finger exoskeleton using AI techniques in the kinetic recovery process, Congresul Aniversar Reunit de Medicină Fizică de Recuperare și Balneoclimatologie, Iunie, 2025, MENȚIUNE
8. **M Turnea**, M Rotariu, A Gheorghita I Condurache, TC Baba, IE Macovei, F Storisteanu, *Hand Motion Video Recognition System for Cursor Control in Healthcare Applications*, Euroinvent 2024 SILVER MEDAL
9. I Condurache, C. Ionite, A Gheorghita, **M Turnea**, C Mucileanu, M Rotariu, *New Devices used in the Recovery of Hand Functionality*, Euroinvent 2024 Gold MEDAL
10. **M Turnea**, D Arotaritei, I Condurache, A Gheorghita, M. Rotariu, *Automatic Classification in Physiotherapy Exercises using Deep Learning, a Prospective Study for Evaluation of Balneotherapy Effects on Musculoskeletal Diseases*, National Congress of Physical and Rehabilitation Medicine & Balneology, 2024 PREMIUL I
11. M Rotariu, **M Turnea**, A Nichita, C Mucileanu, A Gheorghita, I Condurache, *Hippotherapy used in medical recovery*, National Congress of Physical and Rehabilitation Medicine & Balneology, 2024 PREMIUL I
12. A Gheorghita, M Rotariu, D Arotaritei, I Condurache, **M Turnea**, M Ilea, *Multi-compartment Within Host Model for analyze the relationship between severity of COVID-19 and sleep apnea influence*, National Congress of Physical and Rehabilitation Medicine & Balneology, 2024 PREMIUL I
13. I Condurache, C Ionițe, **M Turnea**, V Baniță, C Mucileanu, M Rotariu, *Recovery of the patient with NIEMANN-PICK type B disease*, National Congress of Physical and Rehabilitation Medicine & Balneology, 2024 PREMIUL II
14. C Mucileanu, AC Spiridon, **M Turnea**, I Condurache, M Rotariu, *Kinetic methods used in the postoperative recovery of a patient diagnosed with a puncture wound and foreign body retention in the middle third of the posterior face of the left forearm*, National Congress of Physical and Rehabilitation Medicine & Balneology, 2024 PREMIUL III
15. I. Condurache, C. Ionite, **M. Turnea**, M. Rotariu, A. Gheorghita, *Rehabilitation Gaming Systems*, Euroinvent 2023 MEDAL of EXCELLENCE in INNOVATION
16. I. Duducă, I. Pampu, M. Andriesei, A. Gheorghita, **M. Turnea**, D. Arotăritei, *Prealert System for Improving emergency vehicles movement*, Euroinvent, Mai, 2022 BRONZE MEDAL
17. Best Paper of the 1st International Conference on Health Science and Biomedical Systems (HSBS '12), 2012
18. Premiu 2 secțiunea poster, The 4th International Congress of Romanian Society for Cell Biology, 2012
19. Diplomă de excelență, Technical University of Moldova, 2010
20. **M. Turnea**, A.I. Galaction, D. Cașcaval, *Graphical Interface for Modeling and Optimizing the Multiple Impellers Systems in Bioreactors*, Euroinvent 2010 GOLD MEDAL
21. Premiul 2, "Zilele Medicamentului", Editia a-XV-a, Iasi, 2006

TURNEA Marius-Alexandru