

Conf.dr.ing. DIJMĂRESCU Manuela-Roxana

Lista de lucrări

I. TEZA DE DOCTORAT (T)

T01. Manuela-Roxana DIJMĂRESCU, *Study and Developments on Product Functions and Constructive Characteristics (Studiu și dezvoltări privind funcțiile și caracteristicile constructive de produs)*, București, 2015.

II. CĂRȚI PUBLICATE (C)

C1. Manuela-Roxana Dijmărescu, *Fundamentals of Products Manufacturing: Theoretical Concepts and Applications*, 144 pagini, Editura PRINTECH (Cod CNC SIS 54), ISBN 978-606-23-1593-1, București, 2024.

C2. Editori: Tamer Atabarut, Burcu Rodopman, Kılıç Burcu Ertürk, Aygören Oğuzhan, Ece Gözde Gökakın Kurtulduk, Carla De Vreij, Desiree van der Heydt, Pieter van Schie, Morag Cassidiy, Tom Savu, Adrei Dumitrescu, **Manuela Roxana Dijmarescu**, Mustafa Hesso, Mario Oprea, Giuseppina Bomba, Philip Carleton, Gabriela La Morgia, Cecilia D'Angelo, Mustafa Hilmi Çolakoğlu, Özlem Kalkan, *Green book from ideas to business: Guide & support for young migrant entrepreneurs*, İstanbul : Boğaziçi University Press, 2021, 228 pagini, ISBN: 978-975-518-424-1.

Disponibil la: <https://collections.library.bogazici.edu.tr/record=b2718822>

C3. Editori: Tom Savu, Constantin Gheorghe Opran, Giuseppe Lamanna, **Manuela Roxana Dijmărescu**, Ioan-Cristian Tarbă, *Advanced Manufacturing Technologies and Technologies for Polymeric and Composite Products*, Proceedings of the 2nd International Conference on Technologies for Polymeric and Composite Products (POLCOM 2018) and the 9th International Conference of Advanced Manufacturing Technologies, (ICAMaT 2018), Trans Tech Publications Ltd, July 2019, 520 pagini, ISBN 978-3-0357-1549-1.

Disponibil la: <https://www.scientific.net/book/advanced-manufacturing-technologies-and-technologies-for-polymeric-and-composite-products/978-3-0357-3549-9>

III. ALTE MATERIALE PUBLICATE (Î, D)

Î1. Marian GHEORGHE, **Manuela-Roxana Dijmărescu**, Giorgiana Elena ARMĂȘOIU, *Îndrumar-suport de laborator la Ingineria și Managementul Proceselor de Producție*, 67 pagini, Ed. Politehnica Press, ISBN 978-606-515-720-0, București, 2016.

Î2. **Manuela-Roxana DIJMĂRESCU**, Marius Vali LAZĂR, *Mechanical Technologies and Equipment – Laboratory support guide* (bilingv Engleză-Română), Editura PRINTECH, 56 pagini, ISBN 978-606-23-1592-4, 2024.

IV. ARTICOLE / STUDII ÎN EXTENSO PUBLICATE (R, V)

Ris1. M.-R. Dijmărescu, B.F. Abaza, I. Voiculescu, M.-C. Dijmărescu, I. Ciocan, *Surface Roughness Analysis and Prediction with an Artificial Neural Network Model for Dry Milling of Co–Cr Biomedical Alloys*, Materials, Q1, IF la data publicării 3,623, 2021; 14(21):6361, 21 pagini, <https://doi.org/10.3390/ma14216361>, WOS:000720456800001.

Ris2. O.D. Alupeii-Cojocariu, A. Banu, **M.R. Dijmărescu**, D.S. Preda, E. Rusu, P.Z. Iordache, *Advanced solutions for chemical inactivation and safe disposal of sludge after treating liquid waste*, U.P.B. Sci. Bull., Series B, IF=0,3, Vol. 86, Iss. 2, 2024, pp. 103-118 (16 pagini), ISSN 1454-2331, https://www.scientificbulletin.upb.ro/rev_docs_arhiva/rez7c2_299828.pdf, WOS:001247485400009.

Ris3. O.D. Alupei-Cojocariu, A. Banu, **M.R. Dijmărescu**, D.S. Preda, E. Rusu, P.Z. Iordache, *Green aqua-oxo-hydroxylated advanced material for treatment of liquid waste with complex contamination*, U.P.B. Sci. Bull., Series B, IF=0,3, Vol. 86, Iss. 2, 2024, pp. 259-274 (16 pagini), ISSN 1454-2331, https://www.scientificbulletin.upb.ro/rev_docs_arhiva/full11d_911368.pdf, WOS:001250906300004.

Ris4. A. Dumitrescu, **M-R Dijmărescu**, S. Casorzo, E. Paciello, *Designing Curricula for the New Profile “European Expert in Sustainable Local Development”*, Technium Social Sciences Journal, ISSN: 2668-7798, Vol. 28, pp. 106-115 (10 pagini), Februarie 2022, <https://doi.org/10.47577/tssj.v28i1.5871>, BDI: [Crossref](#), [RePec](#).

Ris5. **M-R Dijmărescu**, *Eco-design and eco-manufacturing consulting microenterprises as part of the circular economy strategy - role and risks*, Technium Social Sciences Journal, ISSN: 2668-7798, Vol. 14, pp. 328-338 (11 pagini), Decembrie 2020, <https://doi.org/10.47577/tssj.v14i1.2151>, BDI: [Crossref](#), [RePec](#).

Ris6. Dragoș Iliescu, **Manuela-Roxana Dijmărescu**, Marian Gheorghe, *Configuration Management by DOLCE Upper-level Ontology*, Academic Journal of Manufacturing Engineering (AJME), Vol. 13, Issue 2, pp. 112-117, 6 pagini, 2015, Revistă B+. Lucrare indexată BDI: [Scopus](#), [EBSCO](#).

Vis1. M.-C. Dijmărescu, **M.-R. Dijmărescu**, *Design and Development of a Software for the Estimation of the Vickers Hardness Measurement Uncertainty*, IOP Conference Series-Materials Science and Engineering, Vol. 916, Articol nr. 012026, 6 pagini, 2020, ISSN: 1757-8981, [doi: 10.1088/1757-899X/916/1/012026](https://doi.org/10.1088/1757-899X/916/1/012026), WOS:000625330000026.

Vis2. **M.-R. Dijmărescu**, *Research on Eco-Design Methods and Tools as Support for Sustainable Product Development*, Proceedings of the 35th IBIMA Conference - Education Excellence and Innovation Management: A 2025 Vision to Sustain Economic Development during Global Challenges, ISBN: 978-0-9998551-4-0, 1-2 April 2020, Seville, Spain, pp. 7304-7313, 10 pagini, WOS:000661127407076.

Vis3. P. G. Tiriplică, M. M. Roșu, **M.-R. Dijmărescu**, I. C. Tarbă, *Method for estimating price procurement of standardized components. Case study – springs*, IOP Conference Series-Materials Science and Engineering, Vol. 916, Articol nr. 012120, 7 pagini, 2020, ISSN: 1757-8981, [doi: 10.1088/1757-899X/916/1/012120](https://doi.org/10.1088/1757-899X/916/1/012120), WOS:000625330000120.

Vis4. **M.-R. Dijmărescu**, *Experimental Study on Cutting Forces Developed during Dry Turning of a CoCrWNi Alloy*, IOP Conference Series-Materials Science and Engineering, Vol. 473, 012018, 2019, [doi: 10.1088/1757-899X/473/1/012018](https://doi.org/10.1088/1757-899X/473/1/012018), ISSN: 1757-8981, 5 pagini, WOS: 000462614100018.

Vis5. M. M. Roșu, **M.-R. Dijmărescu**, M.Badea, *The students' satisfaction with their studies and the start of a career in engineering*, Proceedings of the 34th IBIMA Conference - Vision 2025: Education Excellence and Management of Innovations through Sustainable Economic Competitive Advantage, ISBN: 978-0-9998551-4-0, 13-14 Noiembrie 2019, Madrid, Spain, pp. 1780-1790, WOS: 000556337402081.

Vis6. **M.R. Dijmărescu**, M.C. Dijmărescu, I. Voiculescu, T.D. Popovici, I.C. Tarba, *Study on the influence of cutting parameters on surface quality when machining a CoCrMo alloy*, IOP Conference Series-Materials Science and Engineering, Vol. 400, Article no. 022020, 7 pagini, 2018, [doi:10.1088/1757-899X/400/2/022020](https://doi.org/10.1088/1757-899X/400/2/022020), ISSN: 1757-8981, WOS: 000461147400020.

Vis7. **M.R. Dijmărescu**, T.D. Popovici, I.C. Tarba, M.C. Dijmărescu and C.F. Bisu, *An experimental study on cutting forces when machining a CoCrMo alloy*, IOP Conference Series-Materials Science and Engineering, Vol. 400, Article no. 022019, 7 pagini, 2018, [doi:10.1088/1757-899X/400/2/022019](https://doi.org/10.1088/1757-899X/400/2/022019), ISSN: 1757-8981, WOS: 000461147400019.

Vis8. **M.R. Dijmărescu**, I.C. Tarba, M.C. Dijmărescu, V. Gheorghita, *Influence of cutting parameters on surface quality when machining a CoCrWNi alloy*, MATEC Web of Conferences, Vol. 178, Article no. 01009, 6 pagini, 2018, DOI: [10.1051/mateconf/201817801009](https://doi.org/10.1051/mateconf/201817801009), ISSN: 2261236X, WOS: 000570197900009.

Vis9. M-C Dijmărescu, **M-R Dijmărescu**, *Estimation of Vickers hardness uncertainty for a heterogeneous welded joint (S235JR+AR and X2CrNiMo17-12-2)*, IOP Conference Series-Materials Science and Engineering, Vol. 227, Articol nr. 012035, 8 pagini, 2017, [doi: 10.1088/1757-899X/227/1/012035](https://doi.org/10.1088/1757-899X/227/1/012035), WOS: 000409221600035.

Vis10. T-D Popovici, **M-R Dijmărescu**, *Influence of cutting data on surface quality when machining 17-4 PH stainless steel*, IOP Conference Series-Materials Science and Engineering, Vol. 227, Articol nr. 012101, 6 pagini, 2017, doi: [10.1088/1757-899X/227/1/012101](https://doi.org/10.1088/1757-899X/227/1/012101), WOS: [000409221600101](https://www.wos.com/000409221600101).

Vis11. T-D Popovici, **M-R Dijmărescu**, *Determination of the cutting forces regression functions for milling machining of the X105CrMo17 material*, IOP Conference Series-Materials Science and Engineering, Vol. 227, Articol nr. 012100, 9 pagini, 2017, doi: [10.1088/1757-899X/227/1/012100](https://doi.org/10.1088/1757-899X/227/1/012100), WOS: [000409221600100](https://www.wos.com/000409221600100).

Vis12. M-C Dijmărescu, **M-R Dijmărescu**, *Welding Material Selection for a Specific Butt V-Weld by Means of Assisted Stress and Fatigue Calculations*, Advances in Engineering Research, Vol. 93, pp. 61-66 (6 pagini), 2016, WOS:[000391708800012](https://www.wos.com/000391708800012), doi:[10.2991/ismems-16.2016.12](https://doi.org/10.2991/ismems-16.2016.12).

Vis13. **M.R. Dijmărescu**, M.C. Dijmărescu, *Web Platform for Functional Design*, IOP Conference Series-Materials Science and Engineering, Vol. 95, Article no. 012114, 6 pagini, doi: [10.1088/1757-899X/95/1/012114](https://doi.org/10.1088/1757-899X/95/1/012114), WOS: [000365128900114](https://www.wos.com/000365128900114), 2015.

Vis14. Iliescu D., Ciocan I., **Dijmărescu M.R.**, Gheorghe M., *Collaborative Virtual Environment for Product Development Management*, eLearning & Software for Education Proceedings, Issue 3, pp. 35-42 (8 pagini), 2015, DOI: 10.12753/2066-026X-23-184, WOS:[000384471300004](https://www.wos.com/000384471300004).

Vis15. **M.-R. Dijmărescu**, P. G. Tiriplică, *Development of Cutting Forces and Surface Roughness Prediction Models for Turning a CoCrWNi Alloy*, Materials Science Forum, Vol. 957, pp. 148-155, 2019, <https://www.scientific.net/MSF.957.148>, BDI: [Scopus](https://www.scopus.com), [Crossref](https://www.crossref.org), [ProQuest](https://www.proquest.com).

Vis16. M. G. Catană, **Manuela-Roxana Dijmărescu**, N. Tunsoiu, *Process planning solution for increasing the productivity and robustness of work schedules for batch production processes*, IOP Conference Series-Materials Science and Engineering, Vol. 682, 012018, 2019, 8 pagini, doi: [10.1088/1757-899X/682/1/012018](https://doi.org/10.1088/1757-899X/682/1/012018), ISSN: 1757-8981, BDI: [Scopus](https://www.scopus.com), [Crossref](https://www.crossref.org), [ProQuest](https://www.proquest.com).

Vis17. M. Gheorghe, F.P.G. Stochioiu, D. Manolache, **M-R Dijmărescu** and D. Iliescu, *Analysis and development on general structure and characteristics of laser interferometry systems*, IOP Conference Series-Materials Science and Engineering, Vol. 1268, no. 012010, 10 pagini, 2022, doi: [10.1088/1757-899X/1268/1/012010](https://doi.org/10.1088/1757-899X/1268/1/012010). BDI: [Crossref](https://www.crossref.org), [ProQuest](https://www.proquest.com)

Vis18. M-E Ulmeanu, **M-R Dijmărescu**, B-F Abaza, A Szuder, C-V Doicin, *Digital Manufacturing Pilot Study for Stepping Towards Mixed Reality Applications in Tertiary Education*, TE 2023 Proceedings - Volume 41“Leveraging Transdisciplinary Engineering in a Changing and Connected World.”, pp. 643-652, 2023 doi: [10.3233/ATDE230660](https://doi.org/10.3233/ATDE230660), BDI: [Scopus](https://www.scopus.com), [Crossref](https://www.crossref.org).

Vis19. **Dijmărescu M.R.**, Părvu C., Gheorghe M., *Knowledge Database for Functional Design of Mechanical Products*, Applied Mechanics and Materials, Vol. 760, pp. 15-20, 2015, doi: [10.4028/www.scientific.net/AMM.760.15](https://doi.org/10.4028/www.scientific.net/AMM.760.15), BDI: [Crossref](https://www.crossref.org), [ProQuest](https://www.proquest.com).

Vis20. **Dijmărescu M.R.**, Iliescu D., Gheorghe M., *Functional Design Methodology Based on Knowledge Databases Achievements*, Applied Mechanics and Materials, Vol. 809-810, pp. 865-870, 2015, doi:[10.4028/www.scientific.net/AMM.809-810.865](https://doi.org/10.4028/www.scientific.net/AMM.809-810.865), Indexată BDI: [ProQuest](https://www.proquest.com).

Vis21. **Dijmărescu Manuela-Roxana**, *Case Study Regarding Functional Design Based on Knowledge Databases Achievements*, Applied Mechanics and Materials, Vol. 843, pp. 3-8, 2016, doi:[10.4028/www.scientific.net/AMM.834.3.b](https://doi.org/10.4028/www.scientific.net/AMM.834.3.b), BDI: [Crossref](https://www.crossref.org), [ProQuest](https://www.proquest.com).

Vn1. Ene E., Paraschiv A., **Dijmărescu M.-R.**, *Research on obtaining metallic parts using additive manufacturing technologies*, Journal of Industrial Engineering and Robotics, 2023, Vol. 7, No. 1, ISSN 3061-4112, ISSN-L 3061-4112, pp. 119-124, 6 pagini. Disponibil la: https://industrialengineeringjournal.eu/pdf/vol7_2023_1/Art20.pdf

Vn2. Mahmoud S.A., Bebliuc A.D., Ștefan C.A., Gheorghe M., Blăjină O., **Dijmărescu M.-R.**, Iliescu D., *Research on sustainable recycling and applications on metallic products*, Journal of Industrial Engineering and Robotics, 2023, Vol. 7, No. 1, ISSN 3061-4112, ISSN-L 3061-4112, pp. 107-112, 6 pagini.

Disponibil la: https://industrialengineeringjournal.eu/pdf/vol7_2023_1/Art18.pdf

Vn3. Călugăroiu M.G., Alexandru A.-M., Ivan R.-M., Abaza B.F., **Dijmărescu M.-R.**, Stanciu C., Spiroiu M., *Research on the development of a clothes ironing device*, Journal of Industrial Engineering and Robotics, 2023, Vol. 7, No. 2, ISSN 3061-4112, ISSN-L 3061-4112, pp. 62-69, 8 pagini.

Disponibil la: https://industrialengineeringjournal.eu/pdf/vol7_2023_2/Art10.pdf

Vn4. Popescu I.-D., Ioniță A.-Ș., Dincă F.-L., Barbu R.C., Andrițoiu A., Gheorghe M., Abaza B.F., **Dijmărescu M.-R.**, Stanciu C., Spiroiu M., *Research and development of an assisted system for personalization and programming of medicines*, Journal of Industrial Engineering and Robotics, 2023, Vol. 7, No. 2, ISSN 3061-4112, ISSN-L 3061-4112, pp. 78-83, 6 pagini. Disponibil la: https://industrialengineeringjournal.eu/pdf/vol7_2023_2/Art12.pdf

Vn5. Mareș A.D., Manea E.-M., Gheorghe M., **Dijmărescu M.-R.**, Iliescu D., *Research and applications on the sustainable development of products and industrial organizations*, Journal of Industrial Engineering and Robotics, 2023, Vol. 7, No. 2, ISSN 3061-4112, ISSN-L 3061-4112, pp. 178-183.

Disponibil la: https://industrialengineeringjournal.eu/pdf/vol7_2023_2/Art27.pdf

Vn6. Banu G.-S., Păun A.-A., Drăgan S.-D., Poponete Ș.-M., Abaza B.F., Spiroiu M.A., **Dijmărescu M.-R.**, *Development of an automatic guided chassis*, Journal of Industrial Engineering and Robotics, 2022, Vol. 6, No. 3, ISSN 3061-4112, ISSN-L 3061-4112, pp. 66-73, 8 pagini.

Disponibil la: https://industrialengineeringjournal.eu/pdf/vol6_2022_3/Art12.pdf

Vn7. Mierliță I.-S., Băcioiu M.-R., Ciocoiu D.-A., Uțică N.-G., Voinea C.-B., Zaharia Șt., **Dijmărescu M.-R.**, Abaza B.F., Spiroiu M.A., *Development of a system for assessing the posture of the human body*, Journal of Industrial Engineering and Robotics, 2022, Vol. 6, No. 3, ISSN 3061-4112, ISSN-L 3061-4112, pp. 74-81, 8 pagini.

Disponibil la: https://industrialengineeringjournal.eu/pdf/vol6_2022_3/Art13.pdf

Vn8. Maria G., Chiseleff A.N., Creța G.C., Păun I.-A., Pașavel S.A., Popa B.A., Spiroiu M.A., Abaza B.F., **Dijmărescu M.-R.**, *Development of a smart wallet*, Journal of Industrial Engineering and Robotics, 2022, Vol. 6, No. 3, ISSN 3061-4112, ISSN-L 3061-4112, pp. 105-112, 8 pagini.

Disponibil la: https://industrialengineeringjournal.eu/pdf/vol6_2022_3/Art17.pdf

Vn9. Ioniță A.-Ș., Popescu I.-D., Dincă F.-L., Barbu R.C., **Dijmărescu M.-R.**, Abaza B.F., *Research on the development of a dispenser for tablets*, Journal of Industrial Engineering and Robotics, 2022, Vol. 6, No. 4, ISSN 3061-4112, ISSN-L 3061-4112, pp. 82-89, 8 pagini. Disponibil la: https://industrialengineeringjournal.eu/pdf/vol6_2022_4/Art14.pdf

V. BREVETE DE INVENȚIE / INOVAȚII (B, A)

VI. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE (P, F)

Pn1. Director, *Analiza prelucrabilității unor biomateriale metalice (PRELBIO)*, contract 51/25.09.2017, cod 77, număr intern de identificare: IM 21-17-04, Grant UPB-GEX 2017, valoare grant: 22000 lei, valoare încasată/ chetuită: 21918,21 lei.

Pn2. Membru, Cercetător științific gr. III, 2020-2023, proiect POC - *Fabricarea de materiale avansate destinate tratării apelor industriale uzate: prototip si introducere in ciclul productive*, COD SMIS 2014+: 119960, Beneficiar: SC GREEN WATER NANOTECHNOLOGY SRL, Responsabil POLITEHNICA București: Conf.dr.ing. Ovidiu Dorin ALUPEI COJOCARIU, <https://www.greenwaternanotechnology.ro/smis119960.htm>

Pn3. Membru, Responsabil atelier de lucru Modelare 3D, 2019-2022, Proiect ROSE *Studenti implicați, ingineri pentru viitor! (SIMPLU)*, acord de grant nr. ROSE AG 150 SGU NC II, Beneficiar: Universitatea POLITEHNICA din București, Director grant: Prof.dr.ing.ec. Cristian Vasile DOICIN.

Pn4. Membru, Tutore CAD, 2022-2024, Proiect ROSE Mobilizare, Organizare și obiective pentru învățământul universitar de Viitor – MOTIV pentru viitor!, acord de grant nr. ROSE AG 144/SGV/PV/II, Beneficiar: Universitatea POLITEHNICA din București, Director grant: Prof.dr.ing.ec. Cristian Vasile DOICIN.

Pn5. Membru, Expert pe termen scurt – expert tehnic, 2013, Proiect POSDRU nr. 62485, *Sistem de formare și evaluare centrat pe student, online, la discipline fundamentale de licență și masterat din învățământul superior tehnic*, Beneficiar: Universitatea POLITEHNICA din București, Parteneri: Universitatea Tehnică din Cluj-Napoca, Universitatea Tehnică “Gheorghe Asachi” din Iași, Universitatea din Craiova, Director grant: Prof.dr.ing. Marian GHEORGHE.

Pi1. Responsabil, *Reinforcing Non-University Sector at the Tertiary Level in Engineering and Technology to Support Thailand Sustainable Smart Industry - ReCap 4.0*, nr. 619325-EPP-1-2020-1-TH-EPPKA2-CBHE-JP, Capacity Building in Higher Education Erasmus+, 15.11.2020-14.11.2024. Coordonator Asian Institute of Technology, Thailanda. <https://recap4.ait.ac.th/>

Pi2. Membru, Expert 2, 2024-prezent, proiect Erasmus+ *European Engineering Learning Innovation and Science Alliance (EELISA 2.0)*, ctr. 101124676 /2023. <https://eelisa.eu/>

Pi3. Membru, Cercetător în tehnologia construcțiilor de mașini, 2024-prezent, proiect Erasmus+ „*Development and Reconstruction Empowerment through Advanced Project Management Education and Research (DREAMER)*”, nr. 2024-1-SK01-KA220-HED-000248287. <https://dreamer.tcm.pub.ro/>

Pi4. Membru, Cercetător-programator IT, 2023-2025, proiect Erasmus+ "*High Professional Skills for Advance Science Communication (Sci-Co+)*", nr. 2022-1-IT01-KA220-VET-000086033. <https://www.scicoplus.org/>

Pi5. Membru, Cercetător-programator IT, 2022-2024, "Advanced e-Learning for Cultural Heritage Restorers Specialisation (AdeleRS)", nr. KA220 - N. 2021-1-IT01-KA220-VET-000028100. <https://www.adele-rs.org/>

Pi6. Membru - Formator, 2021-2023, proiect Erasmus+ „*Boosting Sustainable Digital Education for European Universities (BoostEdU)*”, nr. 2020-1-CZ01-KA226-HE-09440. <https://boostedu.ceitec.cz/>

Pi7. Membru, Expert mobilități, 2021-2023, "European Engineering Learning Innovation and Science Alliance" – EELISA - ctr. 101004081/2020. <https://eelisa.eu/>

Pi8. Membru, Cercetător științific-expert IT, 2020-2022, proiect Erasmus+ *Improving Transitions, Enabling Results (ITER)*, nr. 2019-1-UK01-KA202-061465. <https://www.iter-project.info/>

Pi9. Membru, Cercetător științific III, 2019-2022, proiect Erasmus+ *Sustainable Skills for Local Developer (SKILLEd)*, nr. 2019-1-ES01-KA202-064763. <https://skilled-project.eu/>

Pi10. Membru, Cercetător științific-expert IT, 2019-2021, proiect Erasmus+ *Young Migrants Entrepreneurs (YME)*, nr. 2018-3-TR01-KA205-061624. [YME Platform](#)

20.10.2025

