

LISTĂ DE LUCRĂRI PUBLICATE
(selectiv)

**Cărți publicate în Edituri Naționale cu ISBN și în edituri recunoscute
CNCSIS (selectiv 2014-2018)**

1. **OPRAN Constantin Gheorghe**; 2014; *Managementul proiectelor*; Editura comunicare.ro; Bucuresti;pp.322; ISBN:978-973-711-488-4.
2. **OPRAN Constantin Gheorghe**; ; 2015; *Analiza financiara a proiectelor*; Editura comunicare.ro; Bucurestipp.319; ISBN 978-973-711-517-1.
3. BENDIC Vasile; **OPRAN Constantin Gheorghe**; 2017; *Managementul succesului in afaceri prin proiecte*; Editura BREN, Bucuresti, Romania; pp.202; ISBN: 978-606-610-194-3.
4. SEICIU Petre Lucian; **OPRAN Constantin**; SEICIU Dana Cornelia; 2009; *Managementul proiectelor ingineresti*; EdituraPOLITEHNICA PRESS; pp.452; ISBN 978-606-515-070-6.
5. **OPRAN, Constantin**; STAN, Sergiu; 2008; *Managementul proiectelor*; Editura BREN; București, România; pp.523; ISBN 978-973-648-833-7.
6. **OPRAN Constantin**; STAN Sergiu; ABAZA Bogdan; NASTASĂ Steluța; 2002; *Managementul proiectelor -Note de curs*; Editura comunicare.ro; București, România; pp.214; ISBN 973-8376-16-5.
7. **OPRAN, Constantin**; PARAIPAN, Liliana; STAN, Sergiu; 2004; *Managementul riscului*; Editura comunicare.ro; București, România; ISBN 973-711-016-1.
8. NĂSTASE, Steluța; **OPRAN, Constantin**; 2003; *Management financiar*; Editura comunicare.ro; București, România; ISBN 973-8376-46-7.
9. COVRIG, Mircea; **OPRAN, Constantin**; 2001; *Managementul proiectelor*; Agenția Managerială pentru Cercetare Științifică Inovare și Transfer Tehnologic - POLITEHNICA; Editura Pritech 2000; București; Romania;
10. COVRIG, Mircea; **OPRAN Constantin**; 2000; *Managementul implementarii proiectelor*; Ed. Printech; Bucuresti,Romania;

**Articole publicate în Reviste de Specialitate / Volumele unor Conferințe
Științifice Internaționale (selectiv 2021-2026)**

Publicatii stiintifice relevante- ultimii 5 ani:

1. [Maou, K](#); [Belloufi, A](#) ; [Abdelkrim, M](#) ; [Maior, I](#) ; [Romero, CS](#) ; [Moumeni, A](#) ; [Opran, CG](#) ; [Kriker, A](#); Optimization of machining parameters for a novel eco-friendly biocomposite reinforced with date palm fibers: reducing delamination to meet industrial demands; INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY; Volume137Issue11-12Page6003-6027; DOI10.1007/s00170-025-15520-z; Published APR 2025; Indexed 2025-04-17;
2. [Jugravu, BA](#); [Lazar, MV](#); [Savu, T](#); [Abaza, BF](#); [Opran, CG](#); Research on Position Accuracy of Autonomous Industrial Vehicles in Polymer Products Factories; MACROMOLECULAR SYMPOSIA;Volume 413; Issue 3; DOI 0.1002/masy.202300216; Article Number; 2300216; Published JUN 2024; Indexed 2025-04-03;
3. [Ionel, RDS](#) ; [Lamanna, G](#) ; [Opran, CG](#); Intelligent Link between Lean Manufacturing and the Cyber-Physical Industry 4.0 System; MACROMOLECULAR SYMPOSIA; Volume 404; Issue 1; DOI 10.1002/masy.202100478; Article Number; 2100478; Published AUG 2022; Indexed 2022-08-30;
4. [Tudorache, T](#) ; [Ion, SM](#) ; [Opran, CG](#); Numerical Analysis of an Electromagnetic Stirring System for Composite Plastic Materials with Ferromagnetic Particles; MACROMOLECULAR SYMPOSIA;

Volume 404; Issue 1; DOI 10.1002/masy.202100484; Article Number 2100484; Published AUG 2022; Indexed 2022-08-30

5. [Serban, D](#) ; [Lamanna, G](#) ; [Opran, CG](#); Mixing, Conveying and Injection Molding Hybrid System for Conductive Polymer Composites; 52ND CIRP CONFERENCE ON MANUFACTURING SYSTEMS (CMS); Volume 81 ; DOI 10.1016/j.procir.2019.03.175 ; Book Series; Procedia CIRP; Published; 2019; Indexed 2020-09-18;

6. Albu, A. L.; OPRAN, C. G. — Research on Injection Molding of Corn-Based Agro-Materials for Biodegradable Toy Production; MACROMOLECULAR SYMPOSIA; Volume 414, Issue 3; DOI 10.1002/masy.70059; Published JUN 2025; (Indexed 2025-05-31)

7. Pasare, V.; Nitoi, D.; OPRAN, C. G.; Semenescu, A.; Chivu, O.; Dumitrascu, C.; Enache, C.; Cringureanu, A. — Determining The Quality Of Composite Structures Made In Ultrasonic Field By Infrared Thermal Imaging; MACROMOLECULAR SYMPOSIA; DOI 10.1002/masy.70052; Published JUN 2024 (Indexed 2025-04-03)

8. Maou, K.; Belloufi, A.; Abdelkrim, M.; Maior, I.; OPRAN, C. G. — Mathematical Model for the Assessment of the Effect of Fiber Content on the Mechanical Properties of Phenolic Composite Reinforced Date Palm Fiber; MACROMOLECULAR SYMPOSIA; DOI 10.1002/masy.202200192; Published 2023

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10. Jugravu, B. A.; Savu, T.; Opran, C. G.; et al. — Simulations Interoperable Transport Using Intelligent Algorithms for Polymeric Products Manufacturing; DOI 10.1002/masy.202100512; Published 2022

11. Lamanna, G.; Opran, C. G. — Numerical Characterization of Pretensioning of a Hybrid Joint Under Longitudinal Load; DOI 10.1002/masy.202100009; Published 2021

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01. IONEL Dănuț-Sorin; **OPRAN Constantin Gheorghe**; LAMANNA Giuseppe; 2020; *Lean Manufacturing 4.0 of Polymeric Injection Molding Products*; Wiley Online Library. Macromol. Symp. **389**, 1900109 International Conference on Design and Technologies for Polymeric and Composite Products - POLCOM 2019

02. Vulpes, Tiberiu Cristian; **Opran, Constantin Gheorghe**; 2020; *Research Regarding Development of Expert Systems for Polymeric Products Design and Manufacturing* ; _Wiley Online Library. Macromol. Symp. **389**, 1900109 International Conference on Design and Technologies for Polymeric and Composite Products - POLCOM 2019; Issue: 1 Special Issue: SI Article Number: 1900114 Published: FEB 2020

03. D-S Ionel; **C Gh Opran**; B C Vălimareanu; *Lean Manufacturing 4.0 - dynamic physical and cybernetic system for Industry 4.0*; IOP Conf. Series: Materials Science and Engineering 916 (2020) 012048 IOP Publishing doi:10.1088/1757-899X/916/1/012048

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04. Daniel SERBAN, Laurentia ALEXANDRESCU, **Constantin Gheorghe OPRAN**; 2019; *Research Regarding Molding of Fuel Cell Bipolar Plates Made of Polymeric-Carbon Composites*; Materials Science Forum; ISSN: 1662-9752, Vol. 957, pp 369-378; doi:10.4028/www.scientific.net/MSF.957.369; © 2019 Trans Tech Publications Ltd, Switzerland

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07. **Constantin OPRAN**; Veronica LAZAR; Radu Claudiu FIERASU; Lia Mara DITU; 2018; *Research regarding biodegradable properties of food polymeric products under microorganism activity*; International Conference on structural analysis of Advanced Materials: ICSAAM 2017 19-22september 2017; Volume number 1932; ISBN 978-0-7354-1624-6; doi:10.1063/1.5024179; pp.030029-1 -- 030029-8 .

08. Ionut Gabriel GGHIONEAE; **Constantin Gheorghe OPRAN**; Cristian Ioan TARBA; Cukovic Sasa; 2018; *Embedded Research on Adaptive Parametric Modeling of Hydraulic Gear Pumps*; Proceedings International Scientific Conference MACHINES, TECHNOLOGIES, MATERIALS, 14-17.03. 2018, BOROVS, BULGARIA; YEAR II, ISSUE I (8), SOFIA, VOLUME I; ISSN 2535-0021; pp.35-38;
09. L.BASCHIR; **C.OPRAN**; D.SAVASTRU; S.MICLOS; M.S.IOVU; A.A.POPESCU; 2018; *ELLIPSOMETRIC INVESTIGATION OF α -As₂S₃ THIN FILMS OBTAINED BY MAGNETRON SPUTTERING*; Chalcogenide Letters; Vol.15, No.4; April 2018; pp.199-2015;

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10. **OPRAN Constantin**; COTOROS Diana; ROMAN Nadinne; REPANOVICI Angela; MICLAUS Roxana; 2017; *Research regarding the impact behaviour of some polymeric bio-composite products for orthopedic use*; Revista MATERIALE PLASTICE, VOL.54, NR.3 September 2017; pp.438-442.

11. Ionut Gabriel GGHIONEAE; **Constantin Gheorghe OPRAN**; Cristian Ioan TARBA; Petre Gheorghe TIRIPLICA; 2017; *Magnetic Drive Pumps, Current State and Overview*; BULETIN STIINTIFIC Seria C, Fascicola: Mecanica, Tribologie, Tehnologia Constructiilor de Masini; ISSN 1224-3264, Volume 2017, No XXXI; pp.79-82;

12. RIZA Ion; **OPRAN Constantin Gheorghe**; *Methods and Special Functions Used in Diffusion Modelling*; Applied Mechanics and Materials; ISSN: 1662-7482, Vol. 865, doi:10.4028/www.scientific.net/AMM.865.64; 2017 Trans Tech Publications, Switzerland; 2017; pp.64-72.

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13. **OPRAN Constantin Gheorghe**, Balota Doru Andrei, Teodorescu Draghicescu Florin, Dobrescu Tiberiu Gabriel; *Modelling Assisted Injection Molding with Magnetic Field for Complex Polymeric Products*; Proceedings of 26th DAAAM International Symposium on Intelligent Manufacturing and Automation, DAAAM 2015; 2016; Curran Proceedings, New York, ISBN: 9781510818392; DOI:10.2507/26 th.daaam.proceedings.041; pp.0301-0310.

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18. OPRAN Constantin Gheorghe; PRICOP Mircea; TEODORU Constantin; 2015; *Innovative Design of Polymeric Systems used in Manufacturing of Gear Pumps*; Applied Mechanics and Materials Vol. 760 (2015) pp 607-612; (2015) Trans Tech Publications, Switzerland; doi:10.4028/www.scientific.net/AMM.760.607; POLCOM 2014- International Conference of Technology for Polymeric and Composites Products-Bucharest, Romania, 23 – 24 October, 2014.

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20. OPRAN Constantin; PRICOP Mircea; TEODORU Constantin; 2014; *Embedded Engineering for Low Noise Gear Pumps*; DAAAM INTERNATIONAL SCIENTIFIC BOOK 2014, Chapter 13; Published by DAAAM International Vienna, Austria, EU; ISBN 978-3-901509-98-8; pp.163-170.

21. Constantin OPRAN; 2010; *Energy Risk Management*; Recent advances in risk management, assessment and mitigation; Proceedings of the international conference on risk management, assessment and mitigation (RIMA' 10); ISBN: 978-960474-182-3; ISSN: 1790-2769; WSEAS Press; Bucharest; April 20-22; 2010; Romania; 5 pag.; pp.346-350;

Proiecte naționale realizate ca Director de Proiect

1. Programul național CNCSIS, Proiect „Studii și cercetări privind proiectarea integrată a produsului, materialului, tehnologiei și sistemului tehnologic pentru produse din compozite polimerice injectate în matriță utilizând sisteme CAD-CAM-CIM cu tehnici de inginerie concurentă”, Contract Nr. 33,084/1999, 37.124/2000, 34.967/2001 – UPB;
2. Programul Național RELANSIN; Proiect „Sistem tehnologic integrat privind realizarea structurilor sandwich din compozite polimerice pentru industria auto”; Acronim STRIMSAN; Contract finanțare Nr. 1366-26.07.2001-UPB;
3. Programul Național CERES; Proiect „Cercetări fundamentale privind caracterizarea și realizarea tehnologică folosind sisteme expert a produselor biodegradabile din compozite polimerice, cu element de ranforsare din lemn”; Acronim CEFPLE; Contract finanțare Nr. 1366-26.07.2003-UPB;
4. Programul Național CERES; Proiect „Tehnici și tehnologii privind folii fotoselective de înaltă performanță pentru monitorizarea morfologică a produselor agricole”; Acronim TEFOMAP; Contract finanțare Nr. 4-148/12.11.2004-UPB;
5. Programul Național INFRAS; Proiect „Crearea și dezvoltarea în vederea acreditării a unui laborator de încercări pentru produse din compozite polimerice”; Acronim CELAPCOM; Contract finanțare Nr.237/12.10.2004-UPB;
6. Modernizarea tehnologiei de fabricație pentru cuplaje/semicuple mecanice destinate exportului; Program PNCDI-2-INOVARE; Acronim MOTECU; Contract ; 228/03.10.2008;
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Brevete invenții

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4. GAVRILAS Ionel; **OPRAN Constantin**; SALCEANU Ion; TUDORACHE Anca; VASILE Gheorghe; 1992; *Dispozitiv de prelucrat prin electroeroziune*; Nr. Brevet 105668; 30.11.1992; Oficiul de stat pentru inventii si marci Romania.
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