

L I S T A
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2020-2026

A. Cărți și capitole în cărți

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<p>11. Jose Sayooj Aby; Raja Ramachandran; Zhu Quanxin; Alzabut Jihad, Niezabitowski Michal; Balas, Valentina E., Impact of strong determination and awareness on substance addictions: A mathematical modeling approach, Mathematical Methods in the Applied Sciences, DOI 10.1002/mma.7859; Early Access OCT 2021, Indexed 2021-11-11; Document Type Article; Early Access, Accession Number WOS:000712741600001, ISSN 0170-4214, eISSN 1099-1476 Special Issue, IF = 3,01 - Q1</p>	<p>Valentina Emilia Balas</p>
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<p>18. Suchea, MP; Tudose, IV; Romanitan, C ; Pachi, C; Popescu, M; Mouratis, K ; Manica, M Antohe, S ; Couris, S ; Zisopol, DG, Ionescu, ON ; Koudoumas, E Study of evolution for 3D structured surface with nano-balls and walls-like features with thickness variation for WO₃ thin films made by spray deposition, SCIENTIFIC REPORTS Volume15 Issue1 DOI10.1038/s41598-025-88121-1 ISSN 2045-2322 WOS:001414693700037 IF=3.8 Naut=12 Q1</p>	Ionescu Octavian Narcis
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2. Manica, D; Pachiu, C; Romanitan, C; Ionescu, ON ; Nedelcu, OT Suchea, MP Carbon Nanotubes (CNTs)-Polypropylene Composites for Potential Electromagnetic Shielding Applications, 2024 INTERNATIONAL SEMICONDUCTOR CONFERENCE, CAS 2024 Page279-282 DOI10.1109/CAS62834.2024.10736740 WOS:001361909500059 IF = 0.25	Ionescu Octavian Narcis

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<p>4. Ionescu, O; Cernica, IV; Manea, E; Purica, M; Corneliu, PC ; Paun, C; Alina, P Microtextured photovoltaic cells system for UAVs autonomy extension, 2021 INTERNATIONAL SEMICONDUCTOR CONFERENCE (CAS) Page99-102 DOI10.1109/CAS52836.2021.9604168</p>	<p>Ionescu Octavian Narcis</p>
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<p>10. Oprea M., Knowledge Modelling for Teaching and Learning Artificial Intelligence by Using Educational Robots, Proceedings of ICVL 2024, 397-406. https://doi.org/10.58503/icvlv19y202433</p>	<p>Oprea Mihaela</p>
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17. Oprea M., Artificial intelligence based approaches for higher education applications, Proc. of ICVL 2021, p. 15-22.	Oprea Mihaela
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20. Oprea M., An Educational Ontology for Formal Languages and Compilers, The 15th International Conference on Virtual Learning ICVL 2020, pag. 54-60, ISSN 1844 – 8933	Oprea Mihaela

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1. Suchea, M., Ionescu, O. , Tudose, I., Mouratis, K., Romanitan, C., Pachi, „ <i>SnO₂ and Ni doped SnO₂ /polithiophene nanocomposites for gas sensing applications</i> ” <u>Solid State Electronics Letters</u> , Volume 2, December 2020, Pages 85-91, https://doi.org/10.1016/j.ssel.2020.11.003 , https://www.elsevier.com/search-results?query=SnO2%20and%20Ni%20doped%20SnO2%20%2Fpolithiophene%20nanocomposites%20for%20gas%20sensing%20applications%20Solid%20State%20Electronics%20Letters&scles	Ionescu Octavian Narcis
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2. E. Koudoumas; O. N. Ionescu; V. Z. Barsukov; M. P. Suchea Innovative composite materials for electromagnetic shielding, International Semiconductor Conference (CAS), Date of Conference: 12-14 October 2022 Date Added to IEEE Xplore: 09 November 2022 INSPEC Accession Number: 22239606 DOI: 10.1109/CAS56377.2022.9934416 https://25106bsj2-y-https-ieeeexplore-ieee-org.z.e-nformation.ro/document/9934416	Ionescu Octavian Narcis
3. Iulian Florin Stefan, Luminita Duta, Cybersecurity in Industrial Applications, The 23rd Conference on Informatics in Economy (IE 2024), Timisoara Romania, 2024 https://www.conferenceie.ase.ro/index.php/conference-program/	Luminita Duta
4. Marcu C., Duta L., Manea M., (2022) Analyzing business performances with a multicriteria decision method, The 20th International Conference on Informatics in Economy, Volume Education, Research & Business Technologies, IE2021, SPRINGER NATURE, ISBN 9811688664, 2021, Vol 276, Chapitre 34, pag 411-419, 2022 https://www.conferenceie.ase.ro/index.php/ie-2021-conference-papers/	Luminita Duta

E. Brevete obținute în ultimii 5 ani -

Intenationale	
1. Ionescu, O., Constantinescu, Z., Serban, B., Buiu, O., Buiu, A., USPTO (United States Patent Office) „Cyber security system for internet of things connected devices”.U.S. patent number 10,972,486, Application Number 16/176,638 granted by the patent office on 2021-04-06. https://uspto.report/patent/grant/10,972,486	Ionescu Octavian Narcis
2. Dumitru, V; Pircalabu, S; Ionescu, O, Marica, C; Marica, V; Luca, M, USPTO (United States Patent Office) „Secure communication system and method”” US patent numberUS11356422(B1) granted by the patent office on 2022-06-07. https://patents.google.com/patent/US20210136044A1/en?q=(Secure+communication+system+and+method)&inventor=Octavian+Narcis+Ionescu	Ionescu Octavian Narcis
3. Ionescu, O., Buiu O., Georgescu, I., Dumitru, V., Serban, B., Brezeanu, M., Serbanescu, M., USPTO (United States Patent Office) „Adaptive balancing for battery management”, U.S. patent numberUS11034259B2· granted by the patent service on 2021-06-15 https://patents.google.com/patent/US20210221251A1/en?q=(Adaptive+balancing+battery+management)&inventor=Octavian+Ionescu	Ionescu Octavian Narcis
Nationale	
1. Constantinescu Z, Ionescu O, Ionescu C, Vladioiu M, Brevet de inventie nr RO 133285, Sistem de senzori de presiune inclus in structura ajutorajului motoarelor racheta, Acordat de către Oficiul de Stat pentru Invenții și Mărci – OSIM România https://www.osim.ro/images/Publicatii/Inventii/2024/bopi_inv_08_2024.pdf	Ionescu Octavian Narcis
2. Cobianu C, Serban B, Buiu O, Dumbravescu N, Marinescu R, Ionescu O, Avramescu V, Brevet de inventie nr RO 134143 Senzor chemorezistiv de etanol pe baza de Nanocompozite de grafena si oxid metalic si un procedeu de obtinere a acestuia. Acordat de către Oficiul de Stat pentru Invenții și Mărci – OSIM România https://osim.ro/images/Publicatii/Inventii/2025/bopi_inv_01_2025.pdf	Ionescu Octavian Narcis
3. Mirela Suchea, Ionescu Octavian, Tudose Valentin, Pacuraru Luminita, Sistem inivativ pentru utilizarea reclamelor luminoase tridimensionale de interior si in scopul purificarii aerului A2018 00981	Ionescu Octavian Narcis

https://osim.ro/wp-content/uploads/Publicatii-OSIM/BOPI-Inventii/2019/bopi_inv_05_2019.pdf	
4. Ionescu Octavian, Zoran Constantinescu, Ionescu Gabriela, Vladioiu Monica, Brevet de inventie nr 133286 Sistem si metoda de masurare a ratei de regresie pentru combustibili solizi realizati prin tehnologie printare 3D	Ionescu Octavian Narcis

F. Contracte de cercetare

Director granturi/proiecte internationale

Director granturi/proiecte naționale

<ul style="list-style-type: none"> „Sistem de celule fotovoltaice microtexturate de eficienta sporita integrat in aripa unui avion fara pilot (UAV) cu aplicatii in securitatea societala”, pentru activități în categoria D - Activități de cercetare industrială și/sau dezvoltare experimentală (CD) realizate de organizația de cercetare în colaborare efectivă cu întreprinderea C77.D. Valoare incasata 450000 Lei Proiectul a tratat atat dezvoltarea sistemului de celule fotovoltaice texturata cat si integrarea sursei de energie regenerabila (celulele fotovoltaice) cu sistemul de alimentare al UAV ului. 	Ionescu Octavian Narcis
<ul style="list-style-type: none"> „Anduranță la acțiunea vibrațiilor aleatoare și mecanice, Stabilitate la temperatură și umiditate, Stabilitatea la acțiunea radiației solare-Testare sisteme optice SIOBLIN” proiect Nr.C77.2B/ 08.07.2020 In cadrul acestui proiect au fost realizate cercetari si studii referitoare la fiabilitatea si stabilitatea in functionare a unor sisteme complexe de monitorizare optica automata, a frontierelor de stat, determinare si identificare a subiectilor ce au tentative de trecere frauduloasa a acestora. 	Ionescu Octavian Narcis
<ul style="list-style-type: none"> „Panouri de Protecție Balistică pentru Limitarea Exploziilor în Aeroporturi” – PLEXO Cod: ROFSIP2016OS6A12P0, Contract nr. 221993/18.09.2020: Servicii de cercetare – dezvoltare a unor panouri de protecție balistică de dimensiuni reduse In cadrul acestui proiect in afara protectiei balistice a fost studiata si implementata o solutie inovativa de ecranare electromagnetica a incarcaturilor explozive artizanale si intrerupere a sistemului de radiocomunicatii intre atacatori si dispozitivele de comanda a detonarii. Cercetarile efectuate asupra sistemelor ce pot fi folosite respectiv domeniilor de frecventa au condus la definirea parametrilor si elaborarea materialelor radioabsorbante (atat vopseluri cat si materiale plastice) dezvoltate pentru astfel de aplicatii. Cercetarile, determinarile si masuratorile efectuate au demonstrat obtinerea unor atenuari ale semnalului de 30 dB-40dB si sunt prezentate si intr-unul dintre articolele pe care le-am considerat reprezentative. Faptul ca nu s-a facut o specificare directa la scopul lor a fost generat de cerinta expresa a beneficiarului care a considerat ca odata cunoscuta aceasta proprietate a panourilor persoanele cu intentii malitioase vor cauta cai alternative pentru a detona incarcaturile explozive. Proiect obtinut prin competitie pe SEAP (au participat ofertanti precum ISS, ACTTM etc) 	Ionescu Octavian Narcis
<ul style="list-style-type: none"> GEREMP. „Muniție cu impuls electromagnetic” Contract 01 PSCD 2024 Proiect obtinut prin concurs pe axa Soluții pentru Ministerul Aparării Naționale 	Ionescu Octavian Narcis

Membru in colective de granturi/proiecte internaționale

1. <i>PROBA-3 ASPIICS OPSE HARWARE – Contract No. 4000111522 / 14 / NL / GLCESA OPSE, ANEXA 2 Contract cu valoare incasata 450000 Euro (2016-2023)</i> https://www.eoportal.org/satellite-missions/proba-3	Ionescu Octavian Narcis
2. „ <i>Arm neuroprosthesis equipped with artificial skin and sensorial feedback</i> ”, EEA-RO-NO-2018-0390 Call name: EEA Grants - Proiecte Colaborative de Cercetare EEA-RO-NO-2018-0390 2019 – 2023 https://www.armin-see.eu	Ionescu Octavian Narcis
3. „ <i>Accelerating Innovation in Microfabricated devices</i> ”-Moore4Medical CodSMIS2014+:137529 Contract 15/1.1.3H/390018/19.03.2021	Ionescu Octavian Narcis
4. „ <i>Power Grid Modernization towards a More Stable Future-SuPriM</i> ”, case 2021/332778- IMT Bucharest and 2021/336905 -Universitetet I Sørøst-Norge	Ionescu Octavian Narcis i
5. <i>Supercapacitors for Power Grid Modernization towards a More Stable Future-SuPriM, EEA and Norwegian Financial Mechanisms - Energy Programme in Romania/ Renewable energy, energy efficiency and energy security. Contract EEA 332778</i>	Ionescu Octavian Narcis
6. <i>NerveRepack. Intelligent neural system for bidirectional connection with exoprostheses and exoskeletons</i> https://www.nerverepack.eu/about-the-project	Ionescu Octavian Narcis

Membru in colective de granturi/proiecte naționale

1. „ <i>Metoda si dispozitiv de testare la domiciliu pentru detectarea precoce a virusului SARS-CoV-2</i> ”.Proiect finantat in cadrul PNIII, Programul 2- Creșterea competitivității economiei românești prin cercetare-dezvoltare și inovare, domeniul de prioritate publică “Sănătate”, Competiția SOLUȚII -2020 -1.Contract Nr. 13Sol/15.06.2020	Ionescu Octavian Narcis
2. „ <i>Developing quantum information and quantum technologies in Romania</i> Call name: <i>P 1 - SP 1.2</i> ”- Proiecte complexe realizate in consorții CDI PN-III-P1-1.2-PCCDI-2017-0338 2018 – 2021 https://roqnet.ro/qutech-ro/	Ionescu Octavian Narcis
3. „ <i>Sistem mobil adaptiv de mixare si dispersare a unor solutii coloidale inovative cu nanoparticule pentru neutralizarea toxicitatii agentilor chimici, biologici si radiologici</i> ” PN-III-P2-2.1-PED-2019-4222	Ionescu Octavian Narcis
4. „ <i>Nanostructured carbon based materials for advanced industrial applications</i> Call name: <i>P 1 - SP 1.2</i> ” - Proiectecomplexerealizate in consorții CDIPN-III-P1-1.2-PCCDI-2017-0619 http://www.imt.ro/nanocarbon+/	Ionescu Octavian Narcis
5. „ <i>Servicii de elaborare a unui studiu privind eficientizarea masurilor de integrare a producatorilor de energie electrica utilizand surse regenerabile in rețelele electrice de distributie din zona S.C. F.D.E.E. Electrica Distributie Muntenia Nord S.A.</i> ”, nr. Contract 23/2011, 5 persoane, Beneficiar S.C. Electrica Muntenia Nord S.A., val. (cu TVA) 44400 lei.	Ionescu Octavian Narcis
6. „ <i>Dispozitiv electrochimic modular pentru stocarea de sarcina Multi-celled electrochemical STorage Devices</i> Call name: <i>P 2 - SP 2.1</i> ” - Proiect experimental –	Ionescu Octavian

demonstrativPN-III-P2-2.1-PED-2019-4146 2019 - 2021	Narcis
7. „Range Of Image Optical Systems With Zoom For Mwir Spectral Field With Security Applications Call name: P 2 - SP 2.1” - Proiect de transfer la operatorul economicPN-III-P2-2.1-PTE-2019-0465 2020 - 2022	Ionescu Octavian Narcis

PREMII

- 1) Academia Oamenilor de Știință din România - Bucuresti - Gala premiilor pentru anul 2021 - **Premiul "ȘTEFAN ODOBLEJA"** și afilierea ca MEMBRU ASOCIAT AOSR, Secția XII -Știința și Tehnologia Informației, în mai 2023



Premiul AGIR 2023 pentru anul 2022



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In perioada 2020-2026 colectivul profesorilor conducatori de doctorat in specialitatea Ingineria Sistemelor au realizat:

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Publicarea a 14 carti in Edituri Nationale

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Publicarea in Proceedinguri la conferinte indexate ISI a 20 articole

Acordarea a 3 brevete internationale (USPTO)

Acordarea a 4 brevete nationale OSIM

Obtinerea a 3 premii de recunoastere a activitatii acordate de AOSR si AGIR