

List of the publications and the research projects: profesor Nicu BIZON

a) N. Bizon, PhD thesis title: "Performance Evaluation of Systems in multi-criteria conditions" ("Evaluarea performantelor sistemelor in conditii multicriteriale"), 1996, PhD in the field of Engineering (Automatic Systems), Polytechnic University of Bucharest, Faculty of Automation.

b) Books and chapters in books

b1) Books published in International Publishing House

1. Naser Mahdavi Tabatabaei, Sajad Najafi Ravadanegh, Nicu Bizon. Power Systems Resiliency: Modeling, Analysis and Practice. Springer Verlag London Limited, 2018; eBook ISBN 978-3-319-94442-5, Hardcover ISBN 978-3-319-94441-8 <https://www.springer.com/in/book/9783319944418>
2. Erol Kurt, Nicu Bizon, Necmi Altin, Burak Akin (Eds.). Special Issue on the 4th European Conference on Renewable Energy Systems (ECRES 2016), 28-31 August 2016, Istanbul, Turkey. International Journal of Hydrogen Energy 2017;42(28):17559-18144 (13 July 2017) <https://www.sciencedirect.com/journal/international-journal-of-hydrogen-energy/vol/42/issue/28>
3. N. Bizon, N. M. Tabatabaei, Frede Blaabjerg, and Erol Kurt (Ed.), Energy Harvesting and Energy Efficiency: Technology, Methods and Applications, Springer Verlag London Limited, 2017; eBook ISBN: 978-3-319-49875-1; DOI 10.1007/978-3-319-49875-1; Hardcover ISBN 978-3-319-49874-4; Series ISSN 2195-1284 661 pp <http://www.springer.com/us/book/9783319498744>
4. N. M. Tabatabaei, N. Bizon, A. J. Aghbolaghi, and Frede Blaabjerg (Ed.), Fundamentals and Contemporary Issues of Reactive Power Control in AC Power Systems, Springer Verlag London Limited, 2017; eBook ISBN: 978-3-319-51118-4, Hardcover ISBN: 978-3-319-51117-7; Series ISSN: 1612-1287 DOI 10.1007/978-3-319-51118-4 <http://www.springer.com/gp/book/9783319511177>
5. N. Bizon, L. Dascalescu, and N. M. Tabatabaei (Ed.), Autonomous Vehicles: Intelligent Transport Systems and Smart Technologies, Nova Science Publishers Inc., USA, 2014, ISBN: 978-1-63321-324-1 541 pp https://www.novapublishers.com/catalog/product_info.php?products_id=50365&osCsid=756a848447737596b96d62aa86a64cba
6. N. Bizon, N. M. Tabatabaei and Hossein Shayeghi (Ed.), Analysis, Control and Optimal Operations in Hybrid Power Systems - Advanced Techniques and Applications for Linear and Nonlinear Systems, Springer Verlag London Limited, London, UK, 2013. 978-1-4471-5538-6, 978-1-4471-5537-9 ; 394 PAG <http://dx.doi.org/10.1007/978-1-4471-5538-6> <http://www.springer.com/engineering/control/book/978-1-4471-5537-9>
7. N. Bizon and N. M. Tabatabaei (Ed.), Advances in Energy Research: Energy and Power Engineering, Nova Science Publishers Inc., USA, 2013 978-1-62257-534-3 (hardcover), 978-1-62257-546-6 (ebook). 698 pp https://www.novapublishers.com/catalog/product_info.php?products_id=36315&osCsid=cce0dd5ced12df6ba9340d8c9d71142b
8. N. Bizon (Ed.), Advances in Energy Research: Distributed Generation systems integrating Renewable Energy Resources, 3 chapters by N. Bizon, Nova Science Publishers Inc., USA, 2012, 978-1-61209-991-0 (hardcover), 978-1-61209-991-2 (ebook). 692 pp https://www.novapublishers.com/catalog/product_info.php?products_id=22516

b2) Chapters in books published in International Publishing House (1 in the last six years)

1. Fernando Georget Birleanu , Petre Anghelescu , Nicu Bizon , Emil Pricop. Cyber Security Objectives and Requirements for Smart Grid. In Handbook of Smart Grid Communications (Eds. Ersan KABALCI, Yasin KABALCI). Springer Verlag London Limited, 2019, 28 Pages 607-634 <https://www.springer.com/us/book/9789811317675> .
2. N. Bizon, Intelligent control of the Energy Generation System, book chapter in: K. Metaxiotis (Ed.), Intelligent Information Systems and Knowledge Management for Energy: Applications for Decision Support, Usage and Environmental Protection, IGI Global, USA, 2009, chapter 2, pp. 40 -96, ISBN 978-1-60566-737-9 (hardcover), ISBN 978-1-60566-738-6 (ebook). <http://www.igi-global.com/bookstore/Chapter.aspx?TitleId=36963>

b3) Books published in Publishing House recognized by CNCIS - National Council of Scientific Research in Higher Education

b31) Books on research area (in English language) (2 in the last six years)

1. N. Bizon, L. Dascalescu, and N. M. Tabatabaei (Ed.), Autonomous Hybrid Vehicles: Intelligent Transport Systems and Automotive Technologies, Publishing house of the University of Pitești, Pitești, 2013, ISBN 978-606-560-327-1 ; 365 PAG
2. N. Bizon, 2010 (second edition in 2011), 4 chapters in N. Bizon (Ed.), Complex Behaviour of the Distributed Generation System: Intelligent Management of the Renewable Energy Resources for assuring the DG System Power Quality and a Sustainable Development, Publishing house of the University of Pitești, Pitești, ISBN 978-606-560-128-4 (hardcover), ISBN 978-606-560-129-1 (e-book). 560 pag
3. N. Bizon, Dimitris C. Voukalis, 2007, Fundamentals of Electromagnetic Compatibility, Theory and Practice, 250 pages, MatrixROM Publishing house, Bucharest, ISBN: 978-973-755-263-1. <http://www.matrixrom.ro/english/publishing/domains/contents.php?contents=ECC0>

b32) Books on research area (in Romanian language)

1. N. Bizon, 2009, 1 chapter in N. Bizon (Ed.), Education in rural areas can also be managed in a performance way (Si in mediul rural educatia poate fi condusa performant – MEDURUR), chapter: Minimal level of computer skills for managers and ways of obtaining these skills (Nivelul minimal al competențelor managerilor privind utilizarea calculatorului personal si caile de dobândire, pp. 28-42), Publishing house of the University of Pitești, Pitești, ISBN 978-973-680-260-6.
2. N. Bizon, 2008, Modelling of Inverter Systems supplied by Fuel Cells (Modelarea Sistemelor Invertor alimentate de la Pile de Combustie), 220 pages, Publishing house of the University of Pitești, Pitești, ISBN 978-973690-817-0.

3. N. Bizon, 2008, Optimized Systems for Green Power Conversion (Sisteme Optimizate pentru Conversia Energiei Curate), 215 pages, MatrixROM Publishing house, Bucharest, ISBN 978-973-755-401-7.
4. N. Bizon, M. Oproescu, 2007, Power Converters for Energy Generation Systems (Convertoare de Putere utilizate in Sistemele de Generare a Energiei), 160 pages, Publishing house of the University of Pitești, Pitești, ISBN 978-973-690-644-2.

b23) Books for students

1. N. Bizon, 2007, Structura Hardware a Calculatorului Personal si Comunicatia cu Echipamentele Periferice (PC architecture and Communication with Devices), 440 pag, Editura MatrixROM, București, ISBN 978-973-755-131-3.
2. N. Bizon, 2004, Convertoare (Power Converter), 180 pag., Editura MatrixROM, București, ISBN 973-685-836-7.
3. N. Bizon, 2004, Teoria Sistemelor - Teorie si Aplicatii (Theory and Control Systems), 185 pag., Editura MatrixROM, București, ISBN 973-685-677-1.
4. N. Bizon, 2002, Dispozitive Electronice de Putere (Power Electronics Devices) , 132 pag., Editura MatrixROM, București, ISBN 973-685-402-7.
5. N. Bizon, 2002, Managementul procesării, stocării și prezentării datelor (Data processing, storage and retrieval), 200 pag., Editura MatrixROM, București, ISBN.
6. N. Bizon, 2002, Structura hardware a calculatorului personal (PC hardware), 250 pag., Editura Universității din Pitești, Pitești, ISBN 973-690-023-1.
7. G. Chirleşan, D. Chirleşan, M. Abrudeanu, N. Bizon, T. Macarie, E. Neagu, V. Nicolae. 2002, Centrul de formare MUNTENIA: ghid de prezentare și evaluare (Center for training – evaluation guide), 120 pag., Editura MatrixROM, București, ISBN 973-31-2062-6.
8. N. Bizon – Variatoare de putere (AC-AC converters), 2001, 100 pag., Editura MatrixROM, București, ISBN 973-685-9.
9. N. Bizon, 2001, Mecatronică și tehnologii neconvenționale (Mechatronics and advanced technologies), 150 pag., Ed. MatrixROM, București, ISBN 973-685-301-2.
10. Nicu Bizon, Marioara Abrudeanu, Tiberiu Macarie, Dumitru Chirleşan, Georgeta Chirleşan, Viorel Nicolae, Elena Neagu, 2001, Tehnologia informației și comunicării (Information Technology and Communication), 190 pag., Editura Tehnică, București, ISBN 973-31-2062-6.
11. N. Bizon, 2001, Electronică medicală și inteligența artificială (Medical Electronics and Artificial Intelligence), 250 pag., Editura Universității din Pitești, Pitești, ISBN 973-8212-67-7.
12. N. Bizon, 2000, Electronică Industrială I – Teorie și Aplicații (Industrial Electronics –I), 350 pag., Editura MatrixROM, București, ISBN 973-685-073-0.
13. N. Bizon, 2000, Electronică Industrială II – Teorie și Aplicații (Industrial Electronics –II), 250 pag., Editura MatrixROM, București, ISBN 973-685-118-4.
14. N. Bizon, 2000, Electronică de Putere – Culegere de probleme (Power Electronics – Applications), 150 pag., Editura Universității din Pitești, Pitești, ISBN 973-945-72-5.
15. N. Bizon, 2000, Electronică industrială (Industrial Electronics– theory and applications), 320 pag., Editura Universității din Pitești, Pitești, ISBN 973-945-71-7.
16. E. Sofron, N. Bizon, S. Ionita, R. Raducu, 1999, Sisteme de control fuzzy - modelare și proiectare asistate de calculator (Fuzzy control systems – modelling and designing), 210 pag., Editura All, Bucuresti, ISBN 973-9431-32-1.
17. E. Sofron, S. Ionita, N. Bizon, 1997, Modelare și aplicații bazate pe concepte fuzzy, 200 pag. (Fuzzy systems modelling and applications), Editura Universității din Pitesti, Pitesti, ISBN 973-98402-5-6.

c) Articles / Studies published in journals

c1) Papers published in Journals indexed in Web of Science

1. Nicu Bizon, Real-time optimization strategies of FC Hybrid Power Systems based on Load-following control: a new strategy, and a comparative study of topologies and fuel economy obtained. Applied Energy, Applied Energy 241C (2019) pp. 444-460 <https://doi.org/10.1016/j.apenergy.2019.03.026> Impact Factor: 7.900
2. Nicu Bizon, C. I. Hoarcă. Hydrogen saving through optimized control of both fueling flows of the Fuel Cell Hybrid Power System under a variable load demand and an unknown renewable power profile, Energy Conversion and Management 2019;184:1-14, impact factor 6.337, <https://doi.org/10.1016/j.enconman.2019.01.024>
3. Nicu Bizon. Hybrid power sources (HPSs) for space applications: analysis of PEMFC/Battery/SMES HPS under unknown load containing pulses. Renewable & Sustainable Energy Reviews 2019;105;14-37, Impact Factor: 9.184 <https://doi.org/10.1016/j.rser.2019.01.044> MAY 2019 WOS:000460121000002
4. N. Bizon, Jose Manuel Lopez-Guede, Erol Kurt, Phatiphat Thounthong, Alin Gheorghita Mazare, Laurentiu Mihai Ionescu, Gabriel Iana. Hydrogen Economy of the Fuel Cell Hybrid Power System optimized by air flow control to mitigate the effect of the uncertainty about available renewable power and load dynamics. Energy Conversion and Management 2019;179:152-165 impact factor 6.337, ian 2019 WOS:000451490200013 <https://doi.org/10.1016/j.enconman.2018.10.058>
5. Nicu Bizon and Mihai Oproescu. Experimental Comparison of Three Real-Time Optimization Strategies Applied to Renewable/FC-Based Hybrid Power Systems Based on Load-Following Control. Energies 2018, 11(12), 3537-69; <https://doi.org/10.3390/en11123537> Impact Factor: 2.676; 19 dec 2018 WOS:000455358300298
6. N. Bizon. Effective Mitigation of the Load Pulses by Controlling the Battery/SMES Hybrid Energy Storage System. Applied Energy 2018;229;459-473. Impact Factor: 7.900, <https://doi.org/10.1016/j.apenergy.2018.08.013> 1 nov WOS: 000449891500037

7. Nicu Bizon, Gabriel Iana , Erol Kurt, Phatiphat Thounthong, Mihai Oproescu, Mihai Culcer, Mariana Iliescu. Air Flow Real-Time Optimization Strategy for Fuel Cell Hybrid Power Sources with Fuel Flow Based On Load-Following. *Fuel Cell* 2018;18(6):809-823 <https://doi.org/10.1002/face.201700197> impact factor (IF): 2.149 WOS:000451894900015 dec 2018
8. Phatiphat Thounthong, Suwat Sikkabut, Nitchamon Poonnoy, Pongsiri Mungporn, Burin Yodwong, Poom Kumam, Nicu Bizon, Babak Nahid-Mobarakeh, Serge Pierfederici. Nonlinear Differential Flatness-Based Speed/Torque Control With State-Observers of Permanent Magnet Synchronous Motor Drives. *IEEE Transactions on Industry Applications* 2018;54(3):2874-2884. (May-June 2018) Impact Factor: 2.743, [10.1109/TIA.2018.2800678](https://doi.org/10.1109/TIA.2018.2800678) WOS:000433089200086
9. N. Bizon, P. Thounthong. Fuel Economy using the Global Optimization of the Fuel Cell Hybrid Power Systems. *Energy Conversion and Management* 2018;173:665-678. impact factor 6.337, WOS:000445987300054 <https://doi.org/10.1016/j.enconman.2018.08.015> 1 oct 2018
10. N. Bizon, P. Thounthong. Real-time strategies to optimize the fueling of the fuel cell hybrid power source: A review of issues, challenges and a new approach. *Renewable & Sustainable Energy Reviews* 2018;91:1089–1102 (August 2018), Impact Factor: 9.184 <https://doi.org/10.1016/j.rser.2018.04.045> WOS: 000434919600074
11. Kurt Erol, Melih Kale Mustafa, Akbaba Sinan, Bizon, Nicu. Analytical and experimental studies on a new linear energy harvester, *Canadian Journal of Physics* 2018. Impact Factor: 0.983 ISSN 0008-4204, <https://doi.org/10.1139/cjp-2017-0708> WOS:000437293500014 ian 2018
12. N. Bizon, Alin Gheorghita Mazare, Laurentiu Mihai Ionescu, Florentina Magda Enescu. Optimization of the Proton Exchange Membrane Fuel Cell Hybrid Power System for Residential Buildings. *Energy Conversion and Management* 2018;163:22–37; impact factor 6.337, 1 May 2018 WOS:000431837400003 <https://www.sciencedirect.com/science/article/pii/S0196890418301286>
13. N. Bizon. Optimal Operation of Fuel Cell / Wind Turbine Hybrid Power System under Turbulent Wind and Variable Load. *Applied Energy* 2018;212:196-209 Impact Factor: 7.900 <https://doi.org/10.1016/j.apenergy.2017.12.034> WOS:000425200700014 Published: FEB 15, 2018
14. N. Bizon. Real-time optimization strategy for fuel cell hybrid power sources with load-following control of the fuel or air flow. *Energy Conversion and Management* 2018;157:13–27; impact factor 6.337 <https://doi.org/10.1016/j.enconman.2017.11.084> WOS:000425198700002 Published: FEB 2018
15. N. Bizon. Energy optimization of Fuel Cell System by using Global Extremum Seeking algorithm. *Applied Energy* 2017;206:458-474 Impact Factor: 7.182 WOS:000415768400041, 15 November 2017 <https://doi.org/10.1016/j.apenergy.2017.08.097>
16. N. Bizon. Searching of the Extreme Points on Photovoltaic Patterns using a new Asymptotic Perturbed Extremum Seeking Control scheme. *Energy Conversion and Management* 2017;144:286–302; <https://doi.org/10.1016/j.enconman.2017.04.065> 15 July 2017, WOS:000403031600025 impact factor 5.589
17. N. Bizon, E. Kurt. Performance Analysis of Tracking of the Global Extreme on Multimodal Patterns using the Asymptotic Perturbed Extremum Seeking Control Scheme. *International Journal of Hydrogen Energy* 2017; 42(28):17645-54, Impact Factor: 4.229 <http://dx.doi.org/10.1016/j.ijhydene.2016.11.173> 13 July 2017 WOS:000406726000009
18. Nicu Bizon, Phatiphat Thounthong, Marian Raducu, Luminita Mirela Constantinescu. Designing and Modelling of the Asymptotic Perturbed Extremum Seeking Control Scheme for Tracking the Global Extreme. *International Journal of Hydrogen Energy* 2017; 42(28):17632-44, Impact Factor: 4.229 <http://dx.doi.org/10.1016/j.ijhydene.2017.01.086> WOS:000406726000008
19. N. Bizon, Global Maximum Power Point Tracking (GMPPT) of Photovoltaic array using the Extremum Seeking Control (ESC): A review and a new GMPPT ESC scheme, *Renewable & Sustainable Energy Reviews* 57 (may 2016), 524–539, Impact Factor: 9.184; <https://doi.org/10.1016/j.rser.2015.12.221> WOS:000370456000041
20. N. Bizon, Global Extremum Seeking Control of the Power Generated by a Photovoltaic Array under Partially Shaded Conditions, *Energy Conversion and Management* 2016;109; 71-85 (February 2016), <http://dx.doi.org/10.1016/j.enconman.2015.11.046> Impact Factor: 5.589 WOS:000369453600007
21. N. Bizon, Global Maximum Power Point Tracking based on new Extremum Seeking Control scheme, *Progress in Photovoltaics: Research and Applications* may 2016;24(5):600-22. DOI: 10.1002/pip.2700 Impact Factor: 6.726 ; <http://onlinelibrary.wiley.com/doi/10.1002/pip.2700/full> WOS:000373624100002
22. Suwat Sikkabut, Pongsiri Mungporn, Chainarin Ekkaravarodome, Nicu Bizon, Pietro Tricoli, Babak Nahid-Mobarakeh, Serge Pierfederici, Bernard Davat, Phatiphat Thounthong. Control of High-Energy High-Power Densities Storage Devices by Li-ion Battery and Supercapacitor for Fuel Cell/Photovoltaic Hybrid Power Plant for Autonomous System Applications. *IEEE Transactions on Industry Applications* 2016 52(5):4395-4407, September/October 2016 DOI: [10.1109/TIA.2016.2581138](https://doi.org/10.1109/TIA.2016.2581138), Impact Factor: **2.937** WOS:000384659900078 <http://ieeexplore.ieee.org/abstract/document/7492168/>
23. N. Bizon M. Radut, M. Oproescu, Energy control strategies for the Fuel Cell Hybrid Power Source under unknown load profile, *Energy* 86 (15 June 2015) 31-41, <http://dx.doi.org/10.1016/j.energy.2015.03.118> Impact Factor: 4.968 WOS:000356986300004
24. N. Bizon, M. Oproescu, M. Raceanu, Efficient Energy Control Strategies for a Standalone Renewable/Fuel Cell Hybrid Power Source, *Energy Conversion Management* 90 (15 January 2015), 93-110, Impact Factor: 4.801 <https://doi.org/10.1016/j.enconman.2014.11.002> WOS:000348886800010
25. N. Bizon, Improving the PEMFC energy efficiency by optimizing the fuelling rates based on extremum seeking algorithm, *International Journal of Hydrogen Energy* 39(20) (3 July 2014), 10641–10654. <http://dx.doi.org/10.1016/j.ijhydene.2014.04.194> WOS:000338388200032
26. N. Bizon, Tracking the maximum efficiency point for the FC system based on extremum seeking scheme to control the air flow, *Applied Energy* 129 (15 September 2014) 147–157. <http://dx.doi.org/10.1016/j.apenergy.2014.05.002> WOS:000339775400016

27. N. Bizon, Load-following Mode Control of a Standalone Renewable/Fuel Cell Hybrid Power Source, *Energy Conversion Management* 77 (January 2014) 763–772.
<http://dx.doi.org/10.1016/j.enconman.2013.10.035> WOS:000330494600080
28. N. Bizon, Energy harvesting from the PV Hybrid Power Source, *Energy* 52 (1 April 2013): 297–307.
<http://dx.doi.org/10.1016/j.energy.2013.02.006> WOS:000317941000031
29. N. Bizon, Energy harvesting from the FC stack that operates using the MPP tracking based on modified extremum seeking control, *Applied Energy* 104 (1 April 2013) 326-336.
<http://dx.doi.org/10.1016/j.apenergy.2012.11.011> WOS:000316152700033
30. N. Bizon, FC energy harvesting using the MPP tracking based on advanced extremum seeking control, *International Journal of Hydrogen Energy* 38(4) (12 February 2013),1952-1966.
<http://dx.doi.org/10.1016/j.ijhydene.2012.10.112> WOS:000314860600023
31. N. Bizon, Energy efficiency for the multiport power converters architectures of series and parallel hybrid power source type used in plug-in/V2G fuel cell vehicles. *Applied Energy* 102 (12 February 2013), 726-734.
<http://dx.doi.org/10.1016/j.apenergy.2012.08.021> WOS:000314190800078
32. N. Bizon, Energy Efficiency of Multiport Power Converters used in Plug-In/V2G Fuel Cell Vehicles, *Applied Energy* 96 (2012), 431-443.
<http://dx.doi.org/10.1016/j.apenergy.2012.02.075> WOS:000305595500044
33. N. Bizon, Nonlinear control of fuel cell hybrid power sources: Part II –Current control, *Applied Energy* 88(7) (2011) 2574–2591.
<http://dx.doi.org/10.1016/j.apenergy.2011.01.044> WOS:000289497400029
34. N. Bizon, Nonlinear control of fuel cell hybrid power sources: Part I –Voltage control, *Applied Energy* 88(7) (2011) 2559–2573, doi:
<http://dx.doi.org/10.1016/j.apenergy.2011.01.030> WOS:000289497400028
35. N. Bizon, A new Topology of Fuel Cell Hybrid Power Source for Efficient Operation and High Reliability, *Journal of Power Sources* 196(6) (2011) 3260–3270.
<http://dx.doi.org/10.1016/j.jpowsour.2010.11.049> WOS:000287058800042
36. N. Bizon, On tracking robustness in adaptive extremum seeking control of the fuel cell power plants, *Applied Energy* 87(10) (2010) 3115–3130,
<http://dx.doi.org/10.1016/j.apenergy.2010.04.007> . WOS:000280277800018
37. N. Bizon, E. Sofron, M. Raducu, M. Oproescu, Nonlinear control for buck switching power supplies using opto-couplers in the stabilization feedback loop, *Optoelectronics and Advanced Materials - Rapid Communications* 4(6) (2010) 788 - 794 :
<http://oam-rc.inoe.ro/index.php?option=magazine&op=view&idu=1100&catid=51> WOS:000279667300005
38. N. Bizon, Development of a fuel cell stack macro-model for inverter current ripple evaluation, *Revue Roumaine des Sciences Techniques series Électrotechnique et Énergetique* 55(4) (2010) 405-415, <http://revue.elth.pub.ro/viewpdf.php?id=256> WOS:000286710100008

c2) Papers in international Journals indexed

1. Fernando Georgel Birleanu, Nicu Bizon. Principles, Architectures and Challenges for Ensuring the Integrity, Internal Control and Security of Embedded Systems. *Journal of Electrical Engineering, Electronics, Control and Computer Science - JEECCS* 2017;3(1):37-45
2. N. Bizon, M. Oproescu, G.R. Sisman. Failure risk analysis using data from a power station remote monitored. *International Journal on “Technical and Physical Problems of Engineering” (IJTPE)* 2016;8(3):42-51. [7-IJTPE-Issue28-Vol8-No3-Sep2016-pp42-51.pdf](http://www.ijtpet.com/issue28-Vol8-No3-Sep2016-pp42-51.pdf)
3. Fernando Georgel Birleanu, Nicu Bizon. Reconfigurable computing in hardware security. A brief review and application. *Journal of Electrical Engineering, Electronics, Control and Computer Science – JEECCS* 2016;2(1):1-12.
https://scholar.google.ro/citations?hl=en&user=FbHEejkAAAAJ&view_op=list_works&sortby=pubdate
4. Raceanu, Mircea; Iliescu, Mariana; Culcer, Mihai; Marinou, Adriana; Varlam, Mihai; Bizon, Nicu. Fuelling Mode Effect on a PEM Fuel Cell Stack Efficiency. *Progress of Cryogenics & Isotopes Separation* 2015, Vol. 18 Issue 1, p15-24. <http://icj-journal.icsi.ro/>
<http://web.a.ebscohost.com/abstract?direct=true&profile=ehost&scope=site&authtype=crawler&jrnl=15822575&AN=103682101&h=ozBLWmeM9LKuiK9cQUiQX0RKtGnEHZ52L0PpDtO%2fqocnv6UcZOOof8NKmDI83Ide0HtNR04EgHHQsXBK0Oo2BdA%3d%3d&cr1=c&resultNs=AdminWebAuth&resultLocal=ErrCrlNotAuth&crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d15822575%26AN%3d103682101>
5. N. Bizon, M. Oproescu, M. Raducu, L.M. Constantinescu, The Extremum Seeking Control based on Band Pass Filter for the Dither Signal Processed in the Control Loop, *International Journal on “Technical and Physical Problems of Engineering” (IJTPE)*, IJTPE - Issue 16, Volume 5, Number 3, September 2013 (ISSN 0016-0503-0913), 133-143. 20-IJTPE-Issue16-Vol5-No3-Sep2013-pp133-141.pdf <http://www.ijtpet.com/IJTPE/IJTPE-2013/IJTPE-Issue16-Vol5-No3-Sep2013/20-IJTPE-Issue16-Vol5-No3-Sep2013-pp133-141.pdf>
6. N. Bizon, DC-DC converter operation with power spectrum spreading using a nonlinear control law, *Mediterranean Journal of Measurement and Control*, Vol. 5, No. 2, 2009, pp. 78-90, ISSN: 1743-9310 (MEDJMC indexed by Compendex, INSPEC, SWETS/British Library; Elsevier Engineering Information), http://www.medjmc.com/papers%20archive/Vol5-2009/vol5_2body.html
7. N. Bizon, Intelligent Integrated Control of The Power Flows into an Energy Generation System, *Mediterranean Journal of Measurement and Control*, Vol. 3, No. 3, 2007, pp. 59-71, ISSN: 1743-9310 (MEDJMC indexed by Compendex, INSPEC, SWETS/British Library; Elsevier Engineering Information) http://www.medjmc.com/papers%20archive/Vol3-2007/vol3_3body.html

c3) Papers in Journals (indexed +B & B by CNCISIS - National Council of Scientific Research in Higher Education)

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1. N Bizon, Fuzzy Adaptive Gain for a Robust Speed-up of the Generic Process Output, Fuzzy System and Artificial Intelligence (FSAI) Vol. 11, No. 1-3, pp. 73-108, 2005.

e2) Papers in international Journals

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f) Patents

1. N. Bizon, G. Iana, M. Oproescu, Device and method for searching the extremes of power photovoltaic panels (Dispozitiv și metodă de căutare a extremelor de putere pentru panourile fotovoltaice), request A201500228 from 30.03.2015 (under review)
2. N. Bizon, M. Oproescu, G. Iana, Method to optimize the efficiency of hydrogen-based hybrid energy sources (Metodă de optimizare a eficienței surselor hibride de energie bazate pe hidrogen), request A1000793 from 04/10/2017 (under review)

g) R & D projects

g1) International research projects

1. Cost-Efficient Data Collection for Smart Grid and Revenue Assurance (CERA-SG), ID: 77594, 2016-19, ERA-Net Smart Grids Plus; (member in project team) <https://www.era-learn.eu/network-information/networks/era-net-smartgridplus/era-net-smart-grids-plus-joint-call-for-proposals/cost-efficient-data-collection-for-smart-grid-and-revenue-assurance>

g2) National research projects

1. Experimental validation of a propulsion system for a hydrogen fuel cell for a light vehicle - Mobility hydrogen Demonstrator (Validarea experimentală a unui sistem de propulsie cu pile de combustibil cu hidrogen pentru un autovehicul ușor - Demonstrator de Mobilitate cu Hidrogen), PN-III-P2-2.1-PED-2016-1223, 53PED-2017 (project's responsible) [http://uefiscdi.gov.ro/userfiles/file/Inovare/Transfer%20la%20operatorul%20economic/Lista%20proiecte/Rezultate finale PTE.pdf](http://uefiscdi.gov.ro/userfiles/file/Inovare/Transfer%20la%20operatorul%20economic/Lista%20proiecte/Rezultate%20finale%20PTE.pdf)
2. Concept Development of an Energy Storage Unit Using High Temperature Superconducting Coil for Spacecraft Power Systems (SMESinSpace) (project's responsible) 167 STAR-2017 https://star.rosa.ro/downloads/C3_2016/CDI_final.pdf
3. Intelligent control algorithms for the Energy Generation Systems (Algoritmi Inteligenți Pentru Controlul Eficient al unui Sistem Invertor Alimentat de la o Pila de Combustie), research grant of CNCISIS no. 570/2006, 2006-2008. (project's responsible) <http://194.102.64.7/GranturiFinalizate/faces/Projects/ProjectsList.jsp>
4. Integrated Energy Generation Systems using renewable sources (Sistem integrat de conversie a energiei din surse regenerabile); beneficiary: AMCSIT, contractor: Institutul National de Cercetare-Dezvoltare pentru Tehnologii Criogenice si Izotopice - ICSI Rm. Valcea, PC 4286, CEEX no. 2354/2006, 2006-2008 (consortium; project's responsible of research team for University of Pitesti: www.upit.ro CEEX226; coordinated by ICSI Rm. Valcea <http://www.icsi.ro/proiecte/ceex226/info.html>). http://www.cnmp.ro/ceex/comp1_2006/oferta.php?id=4286,

Member in project team for next projects:

1. Research on intelligent control of hybrid electric propulsion system with continuous transmission (Cercetări privind controlul inteligent al unui sistem de propulsie electric hibrid cu transmisie continuă - CVT), PNCD II 4 Parteneriate PC 72209 (3733/1.10.2008): beneficiary: AMCSIT, contractor: Universitatea din Pitesti, 2008-2011; <http://www.electromet.upit.ro> <http://cnmp.ro:8083/pncdi2/program4/2008/main/index.php?&we=a4e9428fad82837902e19b9a12e1443f&wf=detail&id=2731&wchk=7eb4c9dfdcc3bc8535ef71c5b54c83e>
2. Mathematical modeling of electrical activity of neurons and isolated tissue cardiomiocitelor with applications in predicting arrhythmias and the response to antiarrhythmic-MYOMODEL (Modelarea matematică a activității electrice a neuronilor și cardiomiocitelor izolate în țesut, cu aplicații în predicția aritmiilor și a răspunsului la antiaritmic- MYOMODEL), PNCD II 4 Parteneriate PC 61010 (1343/1.10.2008): beneficiary: AMCSIT, contractor: Universitatea din București, 2007-2011; <http://myomodel.net> <http://cnmp.ro:8083/pncdi2/program4/competitie/main/index.php?&we=26531b94a8aa9ff7df5c5d983a506cd6&wf=detail&id=343&wchk=e3b9f3f3c547b8f5f36b9fd32269da1>
3. Intelligente locomotion prosthesis (Proteze locomotorii inteligente – INTELPROT), PNCD II 4 Parteneriate PC 11069 (1379/1.10.2008) : beneficiary: AMCSIT, contractor: Universitatea Politehnică din București, 2008-2011; <http://www.intelprot.ro> 500,000 Euro 2027400 lei <http://cnmp.ro:8083/pncdi2/program4/competitie/main/index.php?&we=26531b94a8aa9ff7df5c5d983a506cd6&wf=detail&id=379&wchk=d5d9b613891edc3853fba1fbb0c9af4f>
4. Theoretical and experimental demonstrations of electric and hybrid propulsion systems to develop competitive and sustainable transport systems (Cercetări teoretice și experimentale demonstrative ale sistemelor de propulsie electrică și hibridă pentru dezvoltarea sistemelor de transport competitive și durabile), MEC- PNCDI- AMTRANS, CEEX no. 5558 X2C31, 2006-2008 (consortium) . http://www.cnmp.ro/ceex/comp1_2006/oferta.php?id=5558
5. Polymer composite films as a means of electromagnetic shielding in the microwave field (Pelicle polimerice în sistem compozit utilizate ca mijloace de ecranare electromagnetică în domeniul microundelor), PC 8003, beneficiary MEC- PNCDI – MATNANTECH, 2006-2008 (consortium) http://www.cnmp.ro/ceex/comp1_2006/oferta.php?id=8003.
6. Technology-based nanostructured materials for electrochemical double layer capacitors used to store electricity - Supercapacitors (Tehnologie pe baza de materiale nanostructurate pentru condensatori electrochimici cu strat dublu utilizabili la stocarea energiei electrice – Supercondensatori), beneficiary MEC- PNCDI - AMCSIT, 2006-2008 (consortium) http://www.cnmp.ro/ceex/comp1_2006/oferta.php?id=4162.
7. Integrated System for Mobile User (SIUM – Sistem integrat pentru utilizatorul mobil), beneficiary: Agenția managerială de cercetare științifică, inovare și transfer tehnologic – AMCSIT, contractor: Institutul National de Informatică – ICI, nr. 80/3.10.2005, 2005-2008. <http://www.cnmp.ro/ceex/comp1/oferta.php?id=1234>
8. Analysis, organization and improvement of operation for educational computer networks connected to the Internet (Analiza, organizarea și îmbunătățirea funcționării rețelei educaționale de calculatoare conectate la internet), Contract de cercetare Nr 26/2001, Program INFOSOC, subprogram INFOSOC 3 – SISTEME; 2001-2003, contractor: ICI București (consortium). http://www.cnmp.ro/documente/infosoc/D3_Infosoc_finantat1.xls
9. Modeling, simulation and implementation of microsystems for deterministic processing and neuro-fuzzy signals; applications in communications and process controllers (Modelarea, simularea și implementarea de micro sisteme pentru procesarea deterministă și neuro-fuzzy a semnalelor ; aplicații în comunicații și controlere de proces), research grant of CNCISIS, 1996-1999.

g3) Other research projects

1. Polarity checking circuit for electrolytic capacitors (Modul de verificare a polarității condensatoarelor electrolitice), research project No. 7888/30/11/2001, 01.12.2001 – 01.05.2002, beneficiary: Draxlmaier Serviceleistung, Romania. (project's responsible)

h) International projects on Development & Institution Building

1. Institution Building Project: Continuous formation center MUNTENIA (CFM), Program Tempus JEP 14448 (member in project team), 2000-2004.
 2. Institution Building Project: Organizations – Companies – Universities relation center (DROIU), Program Tempus JEP 12243 (member in project team), 1999-2001.
- j) Educational Research Projects (Erasmus, LdV etc.)**
1. Leonardo da Vinci, Partnerships, LLP-LdV/PAR/2012/RO/125, ”DISCOVER A NEW WORKING FIELD” (member in project team)
 2. Leonardo da Vinci, Transfer of Innovation, 2013-1-ES1-LEO01-66485, ”ONE TEACHER AND ONE STUDENT WORKING WITH PROJECTX (ONE2ONE)” (member in project team)
 3. Erasmus+, Cooperation for Innovation and the exchange of good practices, 2015-1-TR01-KA203-021342, ”Innovative European Studies on Renewable Energy Systems” (member in project team)

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