

**LISTA DE LUCRĂRI**  
**a cadrului didactic BIZON NICU**

**A. Teza de doctorat**

*Evaluarea performanțelor sistemelor în condiții multicriteriale*, N. Bizon, PhD thesis title: "Performance Evaluation of Systems in multi-criteria conditions" ("Evaluarea performanțelor sistemelor în condiții multicriteriale"), 1996, PhD in the field of Engineering (Automatic Systems), Polytechnic University of Bucharest, Faculty of Automation., Inginerie electronică, telecomunicații și tehnologii informaționale, 1996

**B. Cărți și capitole în cărți publicate în perioada 2012 - 2022**

**B1. Cărți și capitole în cărți de specialitate internaționale ca autor (cu ISBN extern)**

1. Nicu Bizon, *Control of the Fuel Cell Inverter System*, Nicu Bizon, Chapter 11. Control of the Fuel Cell Inverter System, pp. 447-481 In N. Bizon (Ed.), 2012, Advances in Energy Research: Distributed Generation systems integrating Renewable Energy Resources, Nova Science Publishers Inc., USA, 978-1-61209-991-0 (hardcover), 978-1-61209-991-2 (ebook). 692

pages[https://www.novapublishers.com/catalog/product\\_info.php?products\\_id=22516](https://www.novapublishers.com/catalog/product_info.php?products_id=22516), 2012, (TC\_5\_2012\_DECIE, TC\_11\_2012\_DECIE, TC\_5\_2012\_DECIE, TC\_11\_2012\_DECIE)

2. Nicu Bizon, M. Oproescu, F. Fattahi, N.M. Tabatabaei, H.S. Abbasi, *Modelling of Energy Generation Systems – A Brief Overview of used models*, Nicu Bizon, M. Oproescu, F. Fattahi, N.M. Tabatabaei, H.S. Abbasi, Chapter 12. Modelling of Energy Generation Systems – A Brief Overview of used models, pp. 483-514 In N. Bizon (Ed.), 2012, Advances in Energy Research: Distributed Generation systems integrating Renewable Energy Resources, Nova Science Publishers Inc., USA, 978-1-61209-991-0 (hardcover), 978-1-61209-991-2 (ebook). 692

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3. Nicu Bizon, *Techniques to Mitigate the Fuel Cell Current Ripple*, Nicu Bizon, Chapter 9. Techniques to Mitigate the Fuel Cell Current Ripple, pp. 369-421 In N. Bizon (Ed.), 2012, Advances in Energy Research: Distributed Generation systems integrating Renewable Energy Resources, Nova Science Publishers Inc., USA, 978-1-61209-991-0 (hardcover), 978-1-61209-991-2 (ebook). 692

pages[https://www.novapublishers.com/catalog/product\\_info.php?products\\_id=22516](https://www.novapublishers.com/catalog/product_info.php?products_id=22516), 2012, (TC\_4\_2012\_DECIE, TC\_5\_2012\_DECIE, TC\_4\_2012\_DECIE, TC\_5\_2012\_DECIE)

4. Nicu Bizon, *Hybrid Power Sources Topology With Active Mitigation Of Inverter Current Ripple*, Nicu Bizon, Chapter 13. Hybrid Power Sources Topology With Active Mitigation Of Inverter Current Ripple, pp. 335-368 In 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

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5. Nicu Bizon, *Hybrid Power Sources Topology With Spread Power Spectrum*, Nicu Bizon, Chapter 14. Hybrid Power Sources Topology With Spread Power Spectrum, pp. 369-406 In 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

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6. Nicu Bizon, Marian Raducu, Mihai Oproescu, *PWMCycloconverter - An Energy Efficient Topology For Fuel Cell Inverter Systems*, Nicu Bizon, Marian Raducu, Mihai Oproescu, Chapter 11.

PWM Cycloconverter - An Energy Efficient Topology For Fuel Cell Inverter Systems, pp. 283-306 In 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](https://www.novapublishers.com/catalog/product_info.php?products_id=36315&osCsId=cce0dd5ced12df6ba9340d8c9d71142b), 2013, (TC\_1\_2013\_DECIE, TC\_5\_2013\_DECIE, TC\_1\_2013\_DECIE, TC\_5\_2013\_DECIE)

7. Nicu Bizon, Mihai Oproescu, Marian Raducu, *Applications in Control of the Hybrid Power Systems*, Nicu Bizon, Mihai Oproescu, Marian Raducu, Chapter 7. *Applications in Control of the Hybrid Power Systems*, pp. 227-290 In N. Bizon, N. M. Tabatabaei and Hossein Shayeghi (Ed.), 2013, *Analysis, Control and Optimal Operations in Hybrid Power Systems, Advanced Techniques and Applications for Linear and Nonlinear Systems*, Springer Verlag London Limited, London, UK, 978-1-4471-5538-6, 978-1-4471-5537-9 ; 394 pages <http://dx.doi.org/10.1007/978-1-4471-5538-6>

<http://www.springer.com/engineering/control/book/978-1-4471-5537-9>, 2013, (TC\_5\_2013\_DECIE, TC\_11\_2013\_DECIE, TC\_5\_2013\_DECIE, TC\_11\_2013\_DECIE)

8. Nicu Bizon, Marian Raducu, Mihai Oproescu and Luminita Mirela Constantinescu, *Energy Efficiency of the Hybrid Power Source Used in the Plug-In Fuel Cell Vehicles*, Chapter 12. *Energy Efficiency of the Hybrid Power Source Used in the Plug-In Fuel Cell Vehicles*, pp.313-352 In N. Bizon, L. Dascalescu, and N. M. Tabatabaei (Ed.), 2014, *Autonomous Vehicles: Intelligent Transport Systems and Smart Technologies*, Nova Science Publishers Inc., USA, ISBN: 978-1-63321-324-1, 541 pages, [https://www.novapublishers.com/catalog/product\\_info.php?products\\_id=50365&osCsId=756a848447737596b96d62aa86a64cba](https://www.novapublishers.com/catalog/product_info.php?products_id=50365&osCsId=756a848447737596b96d62aa86a64cba), 2014, (TC\_1\_2014\_DECIE, TC\_14\_2014\_DECIE, TC\_1\_2014\_DECIE, TC\_14\_2014\_DECIE)

9. Nicu Bizon, Mircea Raceanu, *Energy Efficiency of PEM Fuel Cell Hybrid Power Source*, In 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 Pages 371-391 <http://www.springer.com/us/book/9783319498744>, 2017, (TC\_5\_2017\_DECIE, TC\_9\_2017\_DECIE, TC\_5\_2017\_DECIE, TC\_9\_2017\_DECIE)

10. Nicu Bizon, Marian Raducu, Luminița-Mirela Constantinescu, Mihai Oproescu, *Energy Harvesting from the Photovoltaic Hybrid Power Source Based on Extremum Seeking Control Schemes*, In 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 Pages 143-176 <http://www.springer.com/us/book/9783319498744>, 2017, (TC\_1\_2017\_DECIE, TC\_5\_2017\_DECIE, TC\_1\_2017\_DECIE, TC\_5\_2017\_DECIE)

11. Florentina Magda Enescu, Nicu Bizon, *SCADA Applications for Electric Power System*, In 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 pp. 561-609. <http://www.springer.com/gp/book/9783319511177>, 2017, (TC\_1\_2017\_DECIE, TC\_16\_2017\_DECIE, TC\_1\_2017\_DECIE, TC\_16\_2017\_DECIE)

12. Nicu Bizon, *Energy Harvesting from the Fuel Cell Hybrid Power Source Based on Extremum Seeking Control Schemes*, In 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 Pages 329-370 <http://www.springer.com/us/book/9783319498744>, 2017, (TC\_9\_2017\_DECIE, TC\_5\_2017\_DECIE, TC\_9\_2017\_DECIE, TC\_5\_2017\_DECIE)

13. Fernando Georgel Birleanu, Petre Anghelescu, Nicu Bizon, *Malicious and Deliberate Attacks and Power System Resiliency*, Fernando Georgel Birleanu, Petre Anghelescu, Nicu Bizon. *Malicious and Deliberate Attacks and Power System Resiliency*, Pages 223-246. In 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>, 2018, (TC\_2\_2018\_DECIE, TC\_21\_2018\_DECIE)

14. Florentina Magda Enescu, Bizon Nicu, Carmen Maria Moraru, *Issues in Securing Critical Infrastructure Networks for Smart Grid Based on SCADA, Other Industrial Control and Communication*

*Systems*, Florentina Magda Enescu, Bizon Nicu, Carmen Maria Moraru. Issues in Securing Critical Infrastructure Networks for Smart Grid Based on SCADA, Other Industrial Control and Communication Systems, Pages 289-324 In 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>, 2018, (TC\_2\_2018\_DECIE, TC\_21\_2018\_DECIE)

15. M. Raceanu, N. Bizon, A. Marinoiu, M. Varlam, *Design and Experimental Investigations of an Energy Storage System in Microgrids*, M. Raceanu, N. Bizon, A. Marinoiu, M. Varlam. Chapter 9 "Design and Experimental Investigations of an Energy Storage System in Microgrids". In Microgrid Architectures, Control and Protection Methods, Springer International Publishing, Eds. Mahdavi Tabatabaei, Naser, Kabalci, Ersan, Bizon, Nicu, 2019, Pages 207-232; eBook ISBN 978-3-030-23723-3; DOI 10.1007/978-3-030-23723-3, Hardcover ISBN 978-3-030-23722-6, Series ISSN 1612-1287,

<https://www.springer.com/in/book/9783030237226>, 2019, (TC\_1\_2019\_DECIE, TC\_6\_2019\_DECIE)

16. F.M. Enescu, N. Bizon, I.C. Hoarca, *Energy Management of PV Array Grid-Connected*, F.M. Enescu, N. Bizon, I.C. Hoarca. Chapter 11 "Energy Management of PV Array Grid-Connected". In Microgrid Architectures, Control and Protection Methods, Springer International Publishing, Eds. Mahdavi Tabatabaei, Naser, Kabalci, Ersan, Bizon, Nicu, 2019, Pages 255-288; eBook ISBN 978-3-030-23723-3; DOI 10.1007/978-3-030-23723-3, Hardcover ISBN 978-3-030-23722-6, Series ISSN 1612-1287,

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17. C. Ravariu, N. Bizon, D.E. Mihaiescu, F. Babarada, M. Stanca, *PV Microgrids Efficiency: From nanomaterials and semiconductor polymer technologies for PV Cells to Global MPPT Control for PV Arrays*, C. Ravariu, N. Bizon, D.E. Mihaiescu, F. Babarada, M. Stanca. Chapter 12 "PV Microgrids Efficiency: From nanomaterials and semiconductor polymer technologies for PV Cells to Global MPPT Control for PV Arrays". In Microgrid Architectures, Control and Protection Methods, Springer International Publishing, Eds. Mahdavi Tabatabaei, Naser, Kabalci, Ersan, Bizon, Nicu, 2019, Pages 289-325; eBook ISBN 978-3-030-23723-3; DOI 10.1007/978-3-030-23723-3, Hardcover ISBN 978-3-030-23722-6, Series ISSN 1612-1287,

<https://www.springer.com/in/book/9783030237226>, 2019, (TC\_1\_2019\_DECIE, TC\_8\_2019\_DECIE)

18. R. Jadeja, N. Bizon, T. Trivedi, A. Ved, *Power Quality Issues and Mitigation Techniques in Microgrid*, R. Jadeja, N. Bizon, T. Trivedi, A. Ved. Chapter 33 "Power Quality Issues and Mitigation Techniques in Microgrid". In Microgrid Architectures, Control and Protection Methods, Springer International Publishing, Eds. Mahdavi Tabatabaei, Naser, Kabalci, Ersan, Bizon, Nicu, 2019, Pages 719-748; eBook ISBN 978-3-030-23723-3; DOI 10.1007/978-3-030-23723-3, Hardcover ISBN 978-3-030-23722-6, Series ISSN 1612-1287,

<https://www.springer.com/in/book/9783030237226>, 2019, (TC\_1\_2019\_DECIE, TC\_4\_2019\_DECIE)

19. F.G. Birleanu, N. Bizon, *Control and Protection of the Smart Microgrids using Internet of Things: Technologies, Architectures, and Applications*, F.G. Birleanu, N. Bizon. Chapter 34 "Control and Protection of the Smart Microgrids using Internet of Things: Technologies, Architectures, and Applications". In Microgrid Architectures, Control and Protection Methods, Springer International Publishing, Eds. Mahdavi Tabatabaei, Naser, Kabalci, Ersan, Bizon, Nicu, 2019, Pages 749-770; eBook ISBN 978-3-030-23723-3; DOI 10.1007/978-3-030-23723-3, Hardcover ISBN 978-3-030-23722-6, Series ISSN 1612-1287,

<https://www.springer.com/in/book/9783030237226>, 2019, (TC\_12\_2019\_DECIE, TC\_1\_2019\_DECIE)

20. Fernando Georgel Birleanu , Petre Angheliescu , Nicu Bizon , Emil Pricop, *Cyber Security Objectives and Requirements for Smart Grid*, Fernando Georgel Birleanu , Petre Angheliescu , Nicu Bizon , Emil Pricop. Cyber Security Objectives and Requirements for Smart Grid. In Handbook of Smart Grid Communications, Springer Singapore, Eds. Ersan KABALCI, Yasin KABALCI, 2019, Pages 607-634; eBook ISBN 978-981-13-1768-2, DOI 10.1007/978-981-13-1768-2, Hardcover ISBN 978-981-13-1767-5, Softcover ISBN 978-981-13-4680-4, Series ISSN 2199-8582,

<https://www.springer.com/us/book/9789811317675> , 2019, (TC\_1\_2019\_DECIE, TC\_13\_2019\_DECIE)

21. Nicu Bizon, *Optimization of the Fuel Cell Renewable Hybrid Power Systems*, N. Bizon. Optimization of the Fuel Cell Renewable Hybrid Power Systems. Springer International Publishing, 2020 (febr.; 336 pages). Print ISBN 978-3-030-40240-2, <https://doi.org/10.1007/978-3-030-40241-9>, 2020, (TC\_1\_2020\_DECIE, TC\_20\_2020\_DECIE)

22. Nicu Bizon, *Fuel Cell Renewable Hybrid Power Systems*, Nicu Bizon (Ed.), Fuel Cell Renewable Hybrid Power Systems, ISBN 978-3-0365-1307-2 (Hbk); ISBN 978-3-0365-1308-9 (PDF),

<https://doi.org/10.3390/books978-3-0365-1308-9> (registering DOI); Pages: 222; Published: July 2021, 2021, (TC\_1\_2021\_DECIE, TC\_15\_2021\_DECIE)

23. Cristian Monea, Nicu Bizon, *Signal Processing and Analysis Techniques for Nuclear Quadrupole Resonance Spectroscopy*, Cristian Monea, Nicu Bizon. Signal Processing and Analysis Techniques for Nuclear Quadrupole Resonance Spectroscopy, Springer International Publishing, Print ISBN: 978-3-030-87860-3, Electronic ISBN: 978-3-030-87861-0, <https://link.springer.com/book/10.1007/978-3-030-87861-0> Pages: 175, Published: November 2021, 2021, (TC\_4\_2021\_DECIE, TC\_8\_2021\_DECIE)

24. Nicu Bizon, *Advanced Modeling and Research in Hybrid Microgrid Control and Optimization*, Nicu Bizon (Ed.). Advanced Modeling and Research in Hybrid Microgrid Control and Optimization, MDPI Publishing House, ISBN 978-3-0365-1886-2 (Hbk); ISBN 978-3-0365-1885-5 (PDF), <https://doi.org/10.3390/books978-3-0365-1885-5> Pages: 249, Published: November 2021, 2021, (TC\_1\_2021\_DECIE, TC\_2\_2021\_DECIE)

25. Nicu Bizon, *Efficiency and Sustainability of the Distributed Renewable Hybrid Power Systems Based on the Energy Internet, Blockchain Technology and Smart Contracts*, Nicu Bizon (Ed.). Efficiency and Sustainability of the Distributed Renewable Hybrid Power Systems Based on the Energy Internet, Blockchain Technology and Smart Contracts, MDPI Publishing House, ISBN 978-3-0365-1834-3 (Hbk); ISBN 978-3-0365-1833-6 (PDF) <https://doi.org/10.3390/books978-3-0365-1833-6> Pages: 305, Published: August 2021, 2021, (TC\_5\_2021\_DECIE, TC\_7\_2021\_DECIE)

26. Nicu Bizon, *Advanced Modeling, Control, and Optimization Methods in Power Hybrid Systems*, Nicu Bizon (Ed.). Advanced Modeling, Control, and Optimization Methods in Power Hybrid Systems - 2021, ISBN 978-3-0365-4144-0 (Hbk); ISBN 978-3-0365-4143-3 (PDF); <https://doi.org/10.3390/books978-3-0365-4143-3> Pages: 292, Published: May 2022., 2022, (TC\_1\_2022\_DECIE, TC\_16\_2022\_DECIE)

## **B2. Cărți și capitole în cărți de specialitate naționale ca autor (cu ISBN intern)**

1. Nicu Bizon, Marian Raducu, Mihai Oproescu, Luminita Mirela Constantinescu, *Energy Efficiency of the Hybrid Power Source Used in the Plug-In Fuel Cell Vehicles*, Nicu Bizon, Marian Raducu, Mihai Oproescu, Luminita Mirela Constantinescu, Energy Efficiency of the Hybrid Power Source Used in the Plug-In Fuel Cell Vehicles In Nicu Bizon, L. Dascalescu, and N. M. Tabatabaei (Ed.), 2013, Autonomous Hybrid Vehicles: Intelligent Transport Systems and Automotive Technologies, Publishing house of the University of Pitești, Pitești, ISBN 978-606-560-327-1 ; 365 pages, 2013, (TC\_1\_2013\_DECIE, TC\_12\_2013\_DECIE, TC\_1\_2013\_DECIE, TC\_12\_2013\_DECIE)

## **C. Lucrări (articole) ISI / BDI publicate în perioada 2012 - 2022**

### **C1. Articole în reviste cotate ISI Thomson Reuters**

1. N. Bizon, *Energy Efficiency of Multiport Power Converters used in Plug-In/V2G Fuel Cell Vehicles*, Nicu 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, 2012, (TC\_1\_2012\_DECIE, TC\_12\_2012\_DECIE, TC\_1\_2012\_DECIE, TC\_12\_2012\_DECIE)

2. N. Bizon, *Energy harvesting from the PV Hybrid Power Source*, Nicu 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, 2013, (TC\_5\_2013\_DECIE, TC\_4\_2013\_DECIE, TC\_5\_2013\_DECIE, TC\_4\_2013\_DECIE)

3. N. Bizon, *Energy harvesting from the FC stack that operates using the MPP tracking based on modified extremum seeking control*, Nicu 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, 2013, (TC\_4\_2013\_DECIE, TC\_5\_2013\_DECIE, TC\_4\_2013\_DECIE, TC\_5\_2013\_DECIE)

4. N. Bizon, *FC energy harvesting using the MPP tracking based on advanced extremum seeking control*, Nicu 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, 2013, (TC\_5\_2013\_DECIE, TC\_11\_2013\_DECIE, TC\_5\_2013\_DECIE, TC\_11\_2013\_DECIE)

5. 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*, Nicu 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, 2013, (TC\_1\_2013\_DECIE, TC\_12\_2013\_DECIE, TC\_1\_2013\_DECIE, TC\_12\_2013\_DECIE)

6. N. Bizon, *Tracking the maximum efficiency point for the FC system based on extremum seeking scheme to control the air flow*, Nicu 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, 2014, (TC\_5\_2014\_DECIE, TC\_14\_2014\_DECIE, TC\_5\_2014\_DECIE, TC\_14\_2014\_DECIE)

7. N. Bizon, *Improving the PEMFC energy efficiency by optimizing the fuelling rates based on extremum seeking algorithm*, Nicu 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, 2014, (TC\_2\_2014\_DECIE, TC\_16\_2014\_DECIE, TC\_2\_2014\_DECIE, TC\_16\_2014\_DECIE)

8. N. Bizon, *Load-following Mode Control of a Standalone Renewable/Fuel Cell Hybrid Power Source*, Nicu 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, 2014, (TC\_5\_2014\_DECIE, TC\_16\_2014\_DECIE, TC\_5\_2014\_DECIE, TC\_16\_2014\_DECIE)

9. N. Bizon, M. Radut, M. Oproescu, *Energy control strategies for the Fuel Cell Hybrid Power Source under unknown load profile*, Nicu 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

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10. N. Bizon, M. Oproescu, M. Raceanu, *Efficient Energy Control Strategies for a Standalone Renewable/Fuel Cell Hybrid Power Source*, Nicu Bizon, M. Oproescu, M. Raceanu, *Efficient Energy Control Strategies for a Standalone Renewable/Fuel Cell Hybrid Power Source*, *Energy Conversion Management* 77 (15 January 2015), 768-772. doi:10.1016/j.enconman.2014.11.002 WOS:000348886800010, 2015, (TC\_1\_2015\_DECIE, TC\_11\_2015\_DECIE, TC\_1\_2015\_DECIE, TC\_11\_2015\_DECIE)

11. 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* 52(5): 4395-4407, September/October 2016 Impact

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## **F. Granturi / proiecte de cercetare în perioada 2012 - 2022**

### **F1. Granturi / proiecte câștigate prin competiție internațională**

1. *Cost Efficient Data Collection for Smart Grid and Revenue Assurance/ Optimizarea costurilor la colectarea datelor de la contoarele inteligente si metode de imbunatatire a profitului la transportul energiei*



*electrice*, , Cost-Efficient Data Collection for Smart Grid and Revenue Assurance (CERA-SG) ( Optimizarea costurilor la colectarea datelor de la contoarele inteligente si metode de imbunatatire a profitului la transportul energiei electrice), ID: 77594, 2016-19, UEFISCDI PNIII: Cooperarea Europeană și Internațională – Subprogram 3.2 - Orizont 2020, Tip proiect: ERA-Net Smart Grids Plus; <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> , 2017, 0.00, (TC\_16\_2017\_DECIE, TC\_4\_2017\_DECIE, TC\_16\_2017\_DECIE, TC\_4\_2017\_DECIE)

## **F2. Granturi / proiecte câștigate prin competiție națională**

1. Nicu Bizon, *Validarea experimentală a unui sistem de propulsie cu pile de combustibil cu hidrogen pentru un autovehicul ușor - Demonstrator de Mobilitate cu Hidrogen*, 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; director Mihai Varlam, Institutul National De Cercetare-Dezvoltare pentru Tehnologii Criogenice si Izotopice - I.C.S.I. Ramnicu Valcea; partener UNIVERSITATEA PITESTI, responsabil proiect: Nicu Bizon, nr. 53PED-2017, 2016

2. BIZON NICU, BIZON NICU, OPROESCU MIHAI, IONESCU LAURENTIU MIHAI, MAZARE ALIN GHEORGHITA, CAZACU DUMITRU, CONSTANTINESCU LUMINITA MIRELA, *Concept Development of an Energy Storage Unit Using High Temperature Superconducting Coil for Spacecraft Power Systems (SMESinSpace)*, Cod: CDI STAR, beneficiar: European Space Agency within STAR (Space Technology and Advanced Research), anul: 2017, domeniul stiintific: Technology & Science Support, valoare: 40887.00, 2017, (TC\_6\_2017\_DECIE, TC\_20\_2017\_DECIE, TC\_6\_2017\_DECIE, TC\_20\_2017\_DECIE)

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4. Bizon Nicu, Oproescu Mihai, Ionescu Laurentiu, Mazare Alin, Cazacu Dumitru, Constantinescu Luminita Mirela, *Concept Development of an Energy Storage Unit Using High Temperature Superconducting Coil for Spacecraft Power Systems*, Concept Development of an Energy Storage Unit Using High Temperature Superconducting Coil for Spacecraft Power Systems (SMESinSpace) (project's responsible) 176 STAR-2017 [https://star.rosa.ro/downloads/C3\\_2016/CDI\\_final.pdf60860](https://star.rosa.ro/downloads/C3_2016/CDI_final.pdf60860) lei (2017) Bizon Nicu, Oproescu Mihai, Ionescu Laurentiu, Mazare Alin, Cazacu Dumitru, Constantinescu Luminita Mirela, 2018, (TC\_24\_2018\_DECIE)

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**Cadrul didactic BIZON NICU**

**Semnătura**