

Curriculum Vitae

Name: Galatus Ramona Voichita, PhD

Nationality: Romanian

Institution, City, Country: Technical University of Cluj-Napoca, Romania

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Professional status: Professor

Education

2009-2010 – Professional Management Diploma at Open University, UK

2005-2008- PhD at Electrical Engineering, Technical University of Cluj-Napoca, for histological image processing and biostatistics in cervical cancer (PhD title: „Methods for Information Extraction and Interpretation in Medical Imaging”)

1999- 2001 - Master Degree in Medical Informatics and Biostatistics, Medicine and Pharmacy “Iuliu Hatieganu” University, Cluj-Napoca (Msc title: “„WEB Atlas in Pathology, using SNOMED Codification””

1990-1995 - Engineer, Bachelor degree in Computer Science at Automation and Computer Science Faculty, Technical University of Cluj-Napoca

Academic Positions

2020-present: professor at Faculty of Electronics, Telecommunications and Information Technology, Basis of Electronics Department, Technical University of Cluj-Napoca

2016-2020: associate professor at Faculty of Electronics, Telecommunications and Information Technology, Basis of Electronics Department, Technical University of Cluj-Napoca and senior scientist at Tedelco SRL company.

2008-2016: lecturer at Faculty of Electronics, Telecommunications and Information Technology, Basis of Electronics Department, Technical University of Cluj-Napoca

2006-2008: teacher assistant at Faculty of Electronics, Telecommunications and Information Technology, Basis of Electronics Department, Technical University of Cluj-Napoca

1999-2006: University of Medicine and Pharmacy, Cluj, Medical Informatics and Biostatistics Department, teacher assistant with Scholarship (2001), Oviedo University, Asturias, Spain

1998-1999: researcher at Faculty of Electrical Engineering, Technical University of Cluj-Napoca

1995-1998: software developer at Creditanstalt Austrian Bank with Romanian Branch ProInvest SRL,

Complete list of publications

INTERNATIONAL BOOKS- CHAPTERS:

J Valles, R. Galatus, "Optimized Design of Yb3+/Er3+-Codoped Phosphate Microring Resonator Amplifiers, Chapter 7 in ""Some Advanced Functionalities of Optical Amplifiers"", Edited by Sisir Kumar Garai, ISBN 978-953-51-2237-1, InTechOpen, 16-Dec-15

link:<https://www.intechopen.com/books/some-advanced-functionalities-of-optical-amplifiers/optimized-design-of-yb3-er3-codoped-phosphate-microring-resonator-amplifier>

Cecilia Cristea, Florin Graur, Ramona Galatus, Calin Vaida, Doina Pislă, and Robert Sandulescu, Nanobiomaterials for Cancer Diagnosis and Therapy, Capitol carte in "Nanobiomaterials: Applications in Drug Delivery", editori Anil K. Sharma, Raj K. Keservani, Rajesh K. Kesharwani, ISBN 9781771885911, 2017, CRC Press, Taylor&Francis Group, 15-Aug-17

link <https://www.crcpress.com/Nanobiomaterial>

National books : 6 books (as co-author : chapters) and 3 support materials for the courses

PROJECTS

National – as principal investigator

1. Management and evaluation of the local and regional hipertermia models using advanced methods for temperature measurement and control”, Romanian Academy ASTR-CA1-2016, partners University of Medicine and Pharmacy “Iuliu Hatieganu” Cluj-Napoca and Tedelco SRL, value 65.400 RON (14.034 EUR)
2. Nano-biosenzor optic cu interfata smartphone pentru detectia rapida si selectiva a antibioticelor din apa, PN-III-P2-2.1-PED-2016-0172 (2017-2018), UEFISCDI, value 600.000 RON (128.755 EUR)
3. Postdoc project, “4D-POSTDOC, POSDRU/89/1.5/S/62557, responsible for the project with title: “Methods for optical signal processing”, scholarship, 2010-2013
4. Detectia poluanților din ape cu senzori fluorescenți pe bază de compozite din calcogenuri Quantum Dots având interfata Smartphone (DEPOFLU), PED708/2022, partner Tedelco SRL.

International

1. "HORIZON2020- COST “MP 1401 - Advanced Fibre Laser and Coherent Source as tools for Society, Manufacturing and Lifescience” , "10 Dect 2014-9 Dec 2018", management committee member link: http://www.cost.eu/domains_actions/mpns/Actions/MP1401?management",
2. ERANET-„ Innovative Technological Approaches for validation of Salivary AGEs as novel biomarkers in evaluation of risk factors in diet-related diseases” , UMF Cluj, <https://salivages.wordpress.com/team/>, 2018-2021, head of the research team in Technical University Cluj
3. "HORIZON2020-COST-TD1205-Innovative methods in radiotherapy and radiosurgery using synchrotron radiation, "21 May 2013-20 May 2017", substitute management committee member, Link: http://www.cost.eu/domains_actions/bmbs/Actions/TD1205?management
4. HORIZON2020-COST-CA16220-European Network for High Performance Integrated Microwave Photonics, "4 Oct 2017-3 Oct 2021", COST Action , substitute management committee member, Link: http://www.cost.eu/COST_Actions/ca/CA16220
5. "FP7-COST TD1001-Novel and Reliable Optical Fibre Sensor Systems for Future Security and Safety Applications (OFSeSa) , 2010-2014, substitute management committee member, link: http://www.cost.eu/COST_Actions/ict/Actions/TD1001?management
6. FP7-COST MP1307-Stable Next-Generation Photovoltaics: Unraveling degradation mechanisms of Organic Solar Cells by complementary characterization techniques (StableNextSol), 2014-2018, substitute management committee member, link: http://www.cost.eu/COST_Actions/mpns/Actions/MP1307?management
7. Femtosecond-laser Assisted Self-Organization Processes for Photonics: Design of Photonic Devices and Experimental Characterization, Principal Investigator: Juan Antonio Valles Brau, Zaragoza Science University, Spain - R. Galatus is head of research group in Technical University, 2015-2018

Other grants – team member in national Romanian projects

1. " Intraperitoneal chemo-hyperthermia equipment developed by the Cyber-Physical System paradigm”, PN-II-RU-TE-2014-4-2859 (2014-2018)

2. "DAMFU- Intelligent system for tracking the behavior of dams, by merging information", PN-III-P2-2.1-PTE-2016-0134(2017-2018)
3. "Research on the development of computerized techniques for cytological screening and assisting the histopathological diagnosis", CNCSIS –A, (2005-2008)
4. "HydroSens, Integrated system of intelligent sensors for monitoring hydrotechnical constructions of strategic importance", PN-II-PT-PCCA-71/2012, (2013-2016)
5. "Implementation of the real-time control of the actuator with self-switching reluctance with ecological supply from the c.a. network", CNCSIS, (1998-2000).
6. Energy-optimized electrical systems for land transport using batteries and super capacitors, "TRANS SUPER CAP", code 21018, 2008-2009, beneficiar CNMP, Contract D1-2-018, 2008-2009
7. „Unicomponent active materials for organic solar cells based on self-assembled pi-conjugated compounds”, ID: P_37_220, Nr. contract: 21/1.09.2016, cod MySMIS: 103509, <http://orglight.granturi.ubbcluj.ro/echipa-de-implementare/>, (2017-2020)

PAPERS:

Clarivate

1. Covaci, MA; Galatus, RV; Petreus, D; Szolga, LA , Stability Improvement of High-Power Semiconductor Laser Diode Regulators Used in Infrared Solid-State Laser Applications, Optical and Quantum Electronics, 2024
2. Covaci, MA; Galatus, RV; Petreus, D; Szolga, LA, Renewability and Robustness Analysis and Review for Sustainable-Technology Propulsion Systems in Modern Transportation Infrastructure Administration, Applied Science-Basel, Dec 2023 , 13 (24) DOI10.3390/app132413026, WOS:001130929000001
3. Potârniche, I.-A.; Saroși, C.; Terebeș, R.M.; Szolga, L.; Gălătuș, R. Classification of Food Additives Using UV Spectroscopy and One-Dimensional Convolutional Neural Network. Sensors 2023, 23, 7517. <https://doi.org/10.3390/s23177517>
4. Gabrian, L (Gabrian, Levi) [1] , [2] ; Giurgi, GI (Giurgi, Gavril-Ionel) et al, BULK AND BILAYER INVERTED ORGANIC SOLAR CELLS (OSCs) EXHIBITING D-A AND A-D-A DONORS WITH 2,2'-BI[3,2-b]THIENOTHIOPHENE UNITS AND PC61BM OR C70 ACCEPTORS, STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA, Volume68Issue1Page275-283,2023, DOI10.24193/subbchem.2023.1.20
5. Papara R, Buzura L, Galatus R, Crina I., Colour detector for visual impaired users, 2022 IEEE 28th International Symposium for Design and Technology in Electronic Packaging, SIITME 2022 - Conference Proceedings, pp. 13–16
6. Buzura, L (Buzura, Loredana) [1] ; Budileanu, ML (Loredana Budileanu, Monica) [1] ; Papara, R (Papara, Radu) [1] ; Demea, H (Demea, Horea) [2] ; Galatus, RM (Galatus, Ramona M.) [1], Macular edema degeneration classification on OCT and fundus images with portable platform based on artificial intelligence methods, 2022, SPIE Proceeding, BIOMEDICAL SPECTROSCOPY, MICROSCOPY, AND IMAGING II, Strasbourg, France, DOI10.1117/12.2617520
7. Buzura, L (Buzura, Loredana) [1] ; Budileanu, ML (Budileanu, Monica Loredana) [1] ; Potarniche, A (Potarniche, Adriana) [1] ; Galatus, R (Galatus, Ramona) [1], Python based portable system for fast characterisation of foods based on spectral analysis, 2021 IEEE 27TH INTERNATIONAL SYMPOSIUM FOR DESIGN AND TECHNOLOGY IN ELECTRONIC PACKAGING (SIITME 2021), DOI 10.1109/SIITME53254.2021.9663677 (published in 2022)
8. Buzura, L (Buzura, Loredana) [1] ; Groza, G (Groza, Gabriel) [1] ; Papara, R (Papara, Radu) [1] ; Galatus, R (Galatus, Ramona) [1] , Assisted OCT diagnosis embedded on Raspberry Pi 4, pp281-286, 2021 IEEE 27TH INTERNATIONAL SYMPOSIUM FOR DESIGN AND TECHNOLOGY IN ELECTRONIC PACKAGING (SIITME 2021), DOI10.1109/SIITME53254.2021.9663686 (published in 2022)

9. Papara, R (Papara, Radu) [1] ; Buzura, L (Buzura, Loredana) [1] ; Galatus, R (Galatus, Ramona) [1] , Ultrasonic indoor navigation prototype for visual impaired users, pp264-257, 2021 IEEE 27TH INTERNATIONAL SYMPOSIUM FOR DESIGN AND TECHNOLOGY IN ELECTRONIC PACKAGING (SIITME 2021), DOI10.1109/SIITME53254.2021.9663725
10. Potarniche, IA (Potarniche, Ioana-Adriana) [1] ; Galatus, RV (Galatus, Ramona-Voichita) [1] , Spectrometric Milk Analyzer, pp214-217, INTERNATIONAL SYMPOSIUM FOR DESIGN AND TECHNOLOGY IN ELECTRONIC PACKAGING (SIITME 2021), DOI10.1109/SIITME53254.2021.9663432
11. Ojha, N (Ojha, N.) [1] ; Bogdan, M (Bogdan, M.) [2] ; Galatus, R (Galatus, R.) [2] ; Petit, L (Petit, L.) [1] , Effect of heat-treatment on the upconversion of NaYF₄:Yb³⁺, Er³⁺ nanocrystals containing silver phosphate glass, JOURNAL OF NON-CRYSTALLINE SOLIDS, 2021, DOI 10.1016/j.jnoncrysol.2020.120243
12. Galatus, RM (Galatus, Ramona M.) [1] ; Marita, T (Marita, Tiberiu) [1] ; Buzura, L (Buzura, Loredana) [1] , [2] ; Aranka, I (Aranka, Ilea) [3], Periodontal probe based on the fluorescent fiber position sensor, BIOPHOTONICS IN POINT-OF-CARE, SPIE Photonics Europe 2020, Strasbourg, France.
13. Galatus, RM (Galatus, Ramona M.) [1] ; Papara, R (Papara, Radu) [1] ; Buzura, L (Buzura, Loredana) [1] , [2] ; Roman, A (Roman, AnaMaria) [3] ; Ursu, T (Ursu, Tudor) [3] , Wearable multi-sensor for plant monitoring, based on fluorescent fibers, BIOPHOTONICS IN POINT-OF-CARE, SPIE Photonics Europe, 2020, Strasbourg, France. DOI10.1117/12.2559993
14. Mesesan, B (Mesesan, Bogdan) [1] ; Marita, T (Marita, Tiberiu) [2] ; Galatus, RV (Galatus, Ramona Voichita) [1] , Single-Ray LiDAR-based Scanner for Static Scenes Dense 3D Reconstruction, 2020 IEEE 16TH INTERNATIONAL CONFERENCE ON INTELLIGENT COMPUTER COMMUNICATION AND PROCESSING (ICCP 2020), pp431-437, Cluj-Napoca, Romania, ISSN2065-9946.
15. Papara, R (Papara, Radu) [1] ; Galatus, R (Galatus, Ramona) [1] ; Buzura, L (Buzura, Loredana) [1] Virtual Reality as Cost Effective Tool for Distance Healthcare, 2020 22ND INTERNATIONAL CONFERENCE ON TRANSPARENT OPTICAL NETWORKS (ICTON 2020), Bari, Italia, ISSN2162-7339.
16. Blidar, A., Feier, B., Tertis, M., Galatus, R., Cristea, C. Electrochemical surface plasmon resonance (EC-SPR) aptasensor for ampicillin detection , 2019 Analytical and Bioanalytical Chemistry
17. Faragó, P., Gălătuș, R., Cîrlugea, M., Hintea, S., Fluorescent Fiber Implementation of an Angle Sensor, 2018, Conference: 20th International Conference on Transparent Optical Networks (ICTON) Location: Univ Politehnica Bucharest, Cent Lib, Bucharest, ROMANIA Date: JUL 01-05, 2018 , Sponsor(s): IEEE Photon Soc; IEEE; Univ Politehnica Bucharest; APEX Technologies; Photonics; OptoSigma; neaspec; Schaefer; Inst Lacznosci Panstwowy Inst Badawczy, 2018 20TH ANNIVERSARY INTERNATIONAL CONFERENCE ON TRANSPARENT OPTICAL NETWORKS (ICTON) Book Series: International Conference on Transparent Optical Networks-ICTON Published: 2018
18. Ramona Galatus, Paul Farago, Juan Valles Optical Data Transmission with Plastic Scintillating Fibers, SPIE Photonics Europe 2018, 22-27 April 2018, Strasbourg, France
19. Paul Farago, Ramona Galatus*a, Sorin Hintea, Juan C. Martinb, Juan Vallesb Fluorescent Fiber Implementation of a High-resolution Distributed Position Sensor, SPIE Photonics Europe 2018, 22-27 April 2018, Strasbourg, France
20. Ramona Gălătuș, PaulFaragó, PiotrMiluski, Juan-Antonio Valles Distributed fluorescent optical fiber proximity sensor: Towards a proof of concept, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Volume 198, 5 June 2018, Pages 7-18, doi: <https://doi.org/10.1016/j.saa.2018.02.044>, WOS:000432234800
21. Cennamo, N ; De Maria, L (De Maria, Letizia)[2] ; Chemelli, C (Chemelli, Cristina)[2] ; Pesavento, M (Pesavento, Maria)[3] ; Profumo, A (Profumo, Antonella)[3] ; Galatus, R (Galatus, Ramona)[4] ; Zeni, L (Zeni, Luigi)[1] Surface Plasmon Resonance Sensor in Plastic Optical Fibers. Influence of the Mechanical Support Geometry on the Performances, Book Series: Lecture Notes in Electrical Engineering, Volume: 431, Pages: 135-141, DOI: 10.1007/978-3-319-55077-0_18

22. N Cennamo, F. Mattiello, R. Galatus, E. Voiculescu, L. Zeni" Plasmonic sensing in D-shaped POFs with Fluorescent optical fibers as light sources, IEEE Transactions on Instrumentation & Measurement, 2017, Issue 4 • April 2018, Page(s):754 - 759 , link <https://ieeexplore.ieee.org/document/8030122/>, DOI: 10.1109/TIM.
23. C Cristea, M Tertis, R. Galatus -"Magnetic Nanoparticles for Antibiotics Detection, Nanomaterials 2017, 7(6), 119; doi:10.3390/nano7060119
24. P. Farago, R. Galatus, N. Tosa, G. Olteanu "Low-cost Quasi-distributed Position Sensing Platform based on Blue Fluorescent Optical Fiber, 2017 IEEE 23rd International Symposium for Design and Technology in Electronic Packaging (SIITME), 26-29 October, Constanta, Romania, 2017 , pp324 - 327, DOI: 10.1109/SIITME.2017.8259918 , link <https://ieeexplore.ieee.org/document/8259918/>
25. E. Galatus, P. Farago, N. Cennamo, C. Cristea, "SPR Based Hybrid Electro-Optic Biosensor Platform, based on side emitting plastic PMMA optical fiber, 2017 IEEE 23rd International Symposium for Design and Technology in Electronic Packaging (SIITME), 26-29 October, Constanta, Romania, 2017, pp328 - 331, DOI: 10.1109/SIITME.2017.8259917 , <https://ieeexplore.ieee.org/document/8259917/>
26. A. Szolga; R. Galatus; G. Olteanu; L. Ivanciu" "Intrusion detection system based on plastic optical fiber, 2017 IEEE 23rd International Symposium for Design and Technology in Electronic Packaging (SIITME), Year: 2017, DOI: 10.1109/SIITME.2017.8259935 , Pages: 403 - 408, <https://ieeexplore.ieee.org/document/8259935/>
27. Cennamo, N ; Pasavento M; DeMaria L, Galatus, R; Mattiello, F; Zeni, L "Comparison of different photoresist buffer layers in SPR sensors based on D-shaped POF and gold film, Proceedings Volume 10323, 25th International Conference on Optical Fiber Sensors; 103234F (2017); doi: 10.1117/12.2265603, link <https://ieeexplore.ieee.org/document/7961004/> Event: 25th International Conference on Optical Fiber Sensors, 2017, Jeju, Korea, Republic of"
28. R. Galatus, B. Feier, C. Cristea, N. Cennamo, L. Zeni "SPR-based Hybrid Electro-Optic Biosensor for Beta-Lactam Antibiotics Determination in Water, SPIE Optics+Photonics 2017, San Diego, USA, 6-10 August 2017, <https://doi.org/10.1117/12.2273318>
29. N Cennamo, R Galatus, F Mattiello, R Sweid, L Zeni, "Design of surface plasmon resonance sensor in plastic optical fibers based on nano-antenna arrays Procedia Engineering 168, 880-883, 2016, <https://doi.org/10.1016/j.proeng.2016.11.296>
30. Galatus, Daniel Moga, Victor Cojocaru, Nunzio Cennamo, Luigi Zeni, "Fuzzy control system based on spr-pof fiber sensor for chlorine monitoring in water, DOI 10.5593/SGEM2016/B22/S10.114, 16th International Multidisciplinary Scientific GeoConference SGEM 2016, SGEM2016 Conference Proceedings, ISBN 978-619-7105-59-9 / ISSN 1314-2704, June 28 - July 6, 2016, Book2 Vol. 2, 895-900 pp, <https://sgemworld.at/sgemlib/spip.php?article8402&lang=en> , Ramona, Galatus; Moga, Daniel; Cojocaru, Victor; Cennamo, Nunzio; Zeni, Luigi. International Multidisciplinary Scientific GeoConference : SGEM : Surveying Geology & mining Ecology Management; Sofia Vol. 2, : 895-899. Sofia: Surveying Geology & Mining Ecology Management (SGEM). (2016)
31. R. Galatus, J. Valles "Optimized design of high-order series coupler Yb3+/Er3+ codoped phosphate glass microring resonator filters, SPIE Photonics Europe, 98891D-98891D-6, 2016, DOI: 10.1117/12.2227382, link <https://www.spiedigitallibrary.org/conference-proceedings-of-spie/9889/1/Optimized-design-of-high-order-series-coupled-Yb3-Er3-co/10.1117/12.2227382.short>"
32. Juan Valles, Ramona Galatus, Modeling of Yb3+/Er3+-codoped microring resonators, in OPTICAL MATERIALS, vol. 41, pp. 126-130, 2015, <https://doi.org/10.1016/j.optmat.2014.10.028>
33. N. Cennamo, R. Galatus, L. Zeni "Experimental results for characterization of a tapered plastic optical fiber sensor based on SPR, in SPIE Optics+ Optoelectronics, pp. 95061V-95061V-6, 2015, <https://doi.org/10.1117/12.2178446>

34. Juan Valles, R. Galatus Requirements for Gain/Oscillation in Yb³⁺/Er³⁺-Codoped Microring Resonators, in OPTICAL COMPONENTS AND MATERIALS XII, vol. 9359, 2015, doi: 10.1117/12.2078657, <http://spie.org/Publications/Proceedings/Paper/10.1117/12.2078657>
35. Ramona Galatus, Juan Valles Optimized Design of Yb³⁺/Er³⁺-Codoped Cross-Coupled Integrated Microring Resonator Arrays, in PHOTONIC FIBER AND CRYSTAL DEVICES: ADVANCES IN MATERIALS AND INNOVATIONS IN DEVICE APPLICATIONS VIII, vol. 9200, 2014., <https://spie.org/Publications/Proceeding>
36. Juan Valles, R. Galatus Analysis of Yb³⁺/Er³⁺-Codoped Microring Resonator Cross-Grid Matrices, in PHOTONICS NORTH 2014, vol. 9288, 2014, link <https://www.spiedigitallibrary.org/conference-proceedings-of-spie/9288/928811/Analysis-of-Yb3Er3-codoped-microring-resonator-cross-grid-m>
37. N. Cennamo, G. D'Agostino, R. Galatus, L. Bibbo, M. Pesavento, L. Zeni Sensors based on surface plasmon resonance in a plastic optical fiber for the detection of trinitrotoluene, in SENSORS AND ACTUATORS B-CHEMICAL, vol. 188, pp. 221-226, 2013, <https://doi.org/10.1016/j.snb.2013.07.005>
38. Juan Valles, Ramona Galatus, Highly Yb³⁺/Er³⁺-Codoped Waveguide Microring Resonator Optimized Performance, in IEEE PHOTONICS TECHNOLOGY LETTERS, vol. 25, no. 5, pp. 457-459, 2013, DOI: 10.1109/LPT.2013.2241045, link <https://ieeexplore.ieee.org/document/6419761/>
39. Ramona Galatus, Nunzio Cennamo, Emil Voiculescu Optimal Design of D-type Plastic Fibers for best sensitivity of SPR Sensors, in INTERDISCIPLINARY RESEARCH IN ENGINEERING: STEPS TOWARDS BREAKTHROUGH INNOVATION FOR SUSTAINABLE DEVELOPMENT, vol. 8-9, pp. 563-573, 2013., <https://www.scientific.net/AEF.8-9>.
40. N. Cennamo, M. Pesavento, G. D'Agostino, R. Galatus, L. Bibbo, L. Zeni Detection of trinitrotoluene based on SPR in molecularly imprinted polymer on Plastic Optical Fiber, in FIFTH EUROPEAN WORKSHOP ON OPTICAL FIBRE SENSORS, vol. 8794, 2013, <https://doi.org/10.1117/12.2025695>
41. Nunzio Cennamo, Davide Massarotti, Ramona Galatus, Laura Conte, Luigi Zeni Performance Comparison of Two Sensors Based on Surface Plasmon Resonance in a Plastic Optical Fiber, in SENSORS, vol. 13, no. 1, pp. 721-735, 2013., <http://www.mdpi.com/1424-8220/13/1/721>
42. L. Puscas, E. Rotar, R. Galatus, N. Puscas Modelling of the Bragg gratings fabricated on Er(3+)-doped Ti:LiNbO(3) optical waveguides, in ADVANCED TOPICS IN OPTOELECTRONICS, MICROELECTRONICS, AND NANOTECHNOLOGIES IV, vol. 7297, 2009. <https://doi.org/10.1117/12.823661>
43. Liliana Puscas, Ramona Galatus, Niculae Puscas Theoretical Study of the Statistical Properties of Single- and Double-Pass M-Mode Er³⁺-Ti:LiNbO₃ Straight Waveguide Amplifiers, in FIBER AND INTEGRATED OPTICS, vol. 28, no. 2, pp. 170-178, 2009. <https://www.tandfonline.com/doi/abs/10.1080/0146803080226701>
44. Dorin Petreus, Daniel Moga, Ramona Galatus, Radu Munteanu Modelling and Sizing of Supercapacitors, in ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING, vol. 8, no. 2, pp. 15-22, 2008. <http://www.aece.ro/abstractplus.php?year=2008&number=2&article=3>
45. S. Ghinioiu, L. Puscas, E. Rotaru, R. Galatus, N. Puscas Evaluation of the attenuation and the optical coupling between optical fibers and waveguides, in Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies III, vol. 6635, pp. U334-U340, 2007. <https://doi.org/10.1117/12.742123>

BDI papers

46. Papara R, Buzura L, Galatus R, Indoor obstacle detector for visual impaired persons, International Conference on Transparent Optical NetworksVolume 2023-July2023 23rd International Conference on Transparent Optical Networks, ICTON 2023Bucharest2 July 2023through 6 July 2023Code 191582

47. Covaci A., Galatus R, Szolga L, Cascade PI Constant Current Regulator for High Power Infrared Laser Diode Bars, International Conference on Transparent Optical NetworksVolume 2023-July2023 23rd International Conference on Transparent Optical Networks, ICTON 2023Bucharest2 July 2023through 6 July 2023Code 191582
48. Potarniche A, Galatus R, Szolga L, Fresh juice pH evaluation using colorimetry, Proceedings of SPIE - The International Society for Optical EngineeringVolume 124932023 Article number 124930YAdvanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies XI 2022Constanta25 August 2022through 28 August 2022Code 187952
49. Ramona Galatus, Dorin Petreus, Daniel Moga, Tiberiu Marita, Nicoleta Stroia"Extending Battery Life Time in the Wireless Sensor Applications with Fluorescent Optical Fiber Concentrator, 2018 IEEE International Instrumentation and Measurement Technology Conference (I2MTC) - Sensors and Transducers, 13-17 May 2018, Houston, USA, <https://ieeexplore.ieee.org/document/8409560/>"
50. Lorant Szolga, Ramona Galatus, Gabriel Olteanu "Fluorescent Optical Fiber Sensor for Arcing and Flame Monitoring in Electrical Distribution Boards, 2018 IEEE International Instrumentation and Measurement Technology Conference (I2MTC) - Sensors and Transducers, 13-17 May 2018, Houston, USA , <https://ieeexplore.ieee.org/document/8409836/>"
51. Cennamo, N.r, De Maria, L.b, Chemelli, C.b, Pesavento, M.c, Profumo, A.c, Galatus, R.d, Zeni, L Surface Plasmon Resonance Sensor in Plastic Optical Fibers. Influence of the Mechanical Support Geometry on the Performances, Lecture Notes in Electrical EngineeringVolume 431, 2018, Pages 135-1413rd National Conference on Sensors, 2016; Rome; Italy;
52. Galatus Ramona Voichita ; Emil Voiculescu ; Nunzio Cennamo ; Luigi Luongo ; Luigi Zeni, Augmented workplace for SPR sensor application, Sensors Applications Symposium (SAS), 2016 IEEE, Catania, Italy, IEEEExplore, DOI: 10.1109/SAS.2016.7479824 , <http://ieeexplore.ieee.org/document/7479824/>
53. C. Cristea, A. Florea, R. Galatus, E. Bodoki, R. Sandulescu, D. Moga, D. Petreus Innovative immunosensors for early stage cancer diagnosis and therapy monitoring, in IFMBE Proceedings, vol. 42, pp. 47-50, 2014. https://link.springer.com/chapter/10.1007/978-3-319-03005-0_13
54. Galatus, R., Farago, P., Marita, T., Zeni, L. Integrated system SPR array sensors based on side glow MMA fibers, OSA Nonlinear Photonics 2018, Zurich Switzerland, 2–5 July 2018, ISBN: 978-1-943580-43-9, <https://www.osapublishing.org/abstract.cfm?uri=NP-2018-JTu2A.80>
55. Trifa, V., Marschalko, R., Szekely, A., Szasz, C., Gălătuș, R. Investigation of a four phase switched reluctance motor supplied from a PWM inverter, OPTIM 1998 - Proceedings of the 6th International Conference on Optimization of Electrical and Electronic Equipments , <https://ieeexplore.ieee.org/document/707953/>
56. R. Galatus, E. Voiculescu Distributed active optical fiber sensor, for bending measurement, in Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), vol. 6883 LNAI, no. PART 3, pp. 493-498, 2011.
57. P Farago, Anida-Maria Băbțan, R Galatus, R Groza, NM Roman, CN Feurdean, A Ilea, A Side-Polished Fluorescent Fiber Sensor for the Detection of Blood in the Saliva, 6th International Conference on Advancements of Medicine and Health Care through Technology; pp23-28, 17–20 October 2018, Cluj-Napoca, Romania, Springer
58. A Scrob, JL Auguste, R Galatus, L Szolga, N Tosa, Design for sensor based on suspended core microstructured optical fiber, Acta Technica Napocensis 58 (3), 2017
59. Ramona GALATUS, Lorant SZOLGA, Emil VOICULESCU, Sensitivity enhancement of a d-shape spr-pof low-cost sensor using graphene, International Journal of Education and Research, Australia, 2013