

## BIBLIOGRAPHIC LIST

- A Calborean, **T Murariu**, C Morari, Optimized lead-acid grid architectures for automotive lead-acid batteries: An electrochemical analysis, *Electrochimica Acta*, 372, 137880 (2021)
- A Campu, F Lerouge, A M Craciun, **T Murariu**, I Turcu, S Astilean, F Monica, Microfluidic platform for integrated plasmonic detection in laminar flow. *Nanotechnology*. 31, 335502 (2020)
- T Murariu**, C Morari, Time-dependent analysis of the state-of-health for lead-acid batteries: An EIS study, *Journal of Energy Storage* 21, 87-93 (2019)
- A Calborean, **T Murariu**, C Morari, Determination of current homogeneity on the electrodes of lead-acid batteries through electrochemical impedance spectroscopy, *Electrochimica Acta*, 320, 134636 (2019)
- T Scheul**, J-C Vial, I Wang, STED-SPIM made simple, *Optics Express*, 22, 30852-30864 (2014)
- T Scheul**, C D'Amico, I Wang, J-C Vial, Two-photon excitation and stimulated emission depletion by a single wavelength, *Optics Express*, 19, 18036-18048 (2011)
- P L Baldeck, **T Scheul**, M Bouriau, O Stephan, J-P Malval, C-L Lin, C-T Lin, C-L Tseng, C Huang, T-T Chung, Nonlinear photochemistry and 3D microfabrication with Q-switched Nd:YAG microchip lasers, Proc. SPIE 8113, *Linear and Nonlinear Optics of Organic Materials XI*, 811309 (2011)
- M Iosin, **T Scheul**, C Nizak, O Stephan, S Astilean, P Baldeck, Laser microstructuring of three-dimensional enzyme reactors in microfluidic channels, *Microfluidics and Nanofluidics* 10, 685-690 (2011)

## BOOKS/CHAPTERS

### Chapter

Laser assisted microfabrication of Three-Dimensional Protein Matrices in Laser Microfabrication of Proteins for Biological Applications, Monica Focsan, Teodora Scheul, Editura Alma Mater, 2013, ISBN 978-606-504-164-6

### Chapter

Biological Applications of Protein Microstructures in Laser Microfabrication of Proteins for Biological Applications, Monica Focsan, Teodora Scheul, Editura Alma Mater, 2013, ISBN 978-606-504-164-6

## PATENT REQUESTS

Method for determining life and quality of lead-acid batteries, involves tracking parameter of constant phase element with linear dependence on battery, slope of linear dependence of parameter and number of load cycles/discharge

Patent Number(s): RO133009-A0

Inventor(s): MORARI I C, BOT A, BUIMAGA-IARINCA L T, MURARIU A T

Patent Assignee Name(s) and Code(s): INSTUTUTUL NAT CERC DEZVOLTARE TEHNOLOGII IZOT MOLEC

Derwent Primary Accession Number: 2019-40690F

International Patent Classification: G01R-031/36

METALLIC GRID WITH OPTIMIZED GEOMETRY FOR LEAD-ACID BATTERY POSITIVE ELECTRODE

Patent Number(s): RO132400-A0

Inventor(s): BOT A, BUIMAGA-IARINCA L T, MORARI I C, MURARIU A T

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Derwent Primary Accession Number: 2018-16004X

International Patent Classification: H01M-010/12; H01M-004/73

METALLIC GRID FOR POSITIVE ELECTRODES IN ACID-LEAD BATTERIES, OPTIMIZED TO MINIMIZE MATERIAL CONSUMPTION IN MANUFACTURING PROCESS

Patent Number(s): RO132401-A0

Inventor(s): BOT A, BUIMAGA-IARINCA L T, MORARI I C, MURARIU A T

Patent Assignee Name(s) and Code(s): INST NAT CERC-DEZVOLTARE TEHNOLOGII IZOT MOLEC

Derwent Primary Accession Number: 2018-16003Y

International Patent Classification: H01M-010/12; H01M-004/73