

Hrvoje Gebavi, 333252: Curriculum vitae

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EDUCATION

degrees, universities, and dates

- 2010 PhD: Doctor of Science and Technology of Materials. Name of the institution: Polytechnic of Turin, Department of Materials Science and Chemical Engineering, Turin, Italy.
- 2006 Master: Master in Physics (field – experimental physics). Name of the institution: The Faculty of Natural Science, Department of Physics, University of Zagreb, Croatia.

EMPLOYMENT

employers, positions, and dates

- 2013 September- ongoing, Current Position. Name of the institution: The Ruđer Bošković Institute; Division of Materials Physics; Molecular Physics Laboratory, Zagreb, Croatia
- 2010 August – 2012 December, Position held: Research Assistant on the project Leadership In Fibre Laser Technologies –LIFT, 7th Framework Programme. Name of the institution: School of Engineering, Multidisciplinary Nanotechnology Centre, Swansea University, Swansea, United Kingdom.

RESEARCH INTEREST

brief description of past and current research (projects) and the field(s) of specialization

- Surface enhanced Raman spectroscopy, applications in biomedicine
- Novel materials fabrication and development
- Active glass fabrication, optical fibers and fiber lasers development

RESEARCH PROJECTS

- 2015 – ongoing, Surface enhanced Raman spectroscopy for biochemical sensors development, HAZU, grant holder.
- 2015 – ongoing, COST Action ‘Advanced fibre laser and coherent source as tools for society, manufacturing and lifescience’, Materials, Physics and Nanosciences (MPNS) - MP1401, www.cost.eu/domains_actions/mpns/Actions/MP1401, Croatian representative in the Management Committee of the COST action.
- 2010 August – 2012 December, Leadership In Fibre Technologies (LIFT), Swansea University, the United Kingdom, www.lift-project.eu, Swansea University representative.

PUBLICATIONS

up to three recent publications relevant to this project plan

1. H. Gebavi, S. Taccheo, L. Lablonde, B. Cadier, T. Robin, D. Mechin, D. Tregoat, ‘Mitigation of photodarkening phenomenon in fiber lasers by 633 nm light exposure’ Opt. Lett. 38, 2, 196-198, 2013. (doi: 10.1364/OL.38.000196, impact factor (2013): 3.179)
2. H. Gebavi, S. Taccheo, D. Tregoat, A. Monteville, T. Robin, ‘Photobleaching of photodarkening in ytterbium doped aluminosilicate fibers with 633 nm irradiation’ Opt. Materials Express, 2, 9, 1286–1291, 2012. (doi: 10.1364/OME.2.001286, impact factor (2013): 2.923).
3. H. Gebavi, S. Taccheo, D. Milanese, A. Monteville, O. Le Goffic, D. Landais, D. Mechin, D. Tregoat, B. Cadier, T. Robin ‘Temporal evolution and correlation between cooperative luminescence and photodarkening in ytterbium doped silica fibers’ Opt. Express 19, 25, 25077 - 25083, 2011. (doi: 10.1364/OE.19.025077, impact factor (2013): 3.525).

INVITED PRESENTATIONS

- S. Taccheo, H. Gebavi, R. Piccoli, T. Robin, L. Lablonde, B. Cadier, A. Monteville, D. Mechin, D. Milanese, T. Brand, L. Leick, F. Salin, A. Malinovski, U. Hefter, T. Durrant, and U. Klotzback, ‘Photodarkening: Investigation, Measurement and Standards,’ in Advanced Photonics, OSA Technical Digest, Advanced Photonics - Specialty Optical Fibers, paper SoW2B.6, 2014. *invited talk*