

Curriculum Vitae



Associated prof. Dr. Ilija Nasov

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Education

BSc - Bachelor Degree - University St's Cyril and Methodius, Faculty of Technology and Metallurgy, Skopje, R. Macedonia, 1976

MSc - Master of Science - University St's Cyril and Methodius, Faculty of Mechanical Engineering, Skopje, R. Macedonia, 1980

PhD - Doctor of Technical Science - University St's Cyril and Methodius, Faculty of Mechanical Engineering, Skopje, R. Macedonia, 1998

Employment

Director and Co-owner of the Center for Plasma Technologies "Plasma", Skopje, 2004- today

Dean of Faculty for Ecological resources, MIT University, Skopje 2008- today

Chairmen of Board of Directors of Camel Solar, company for solar thermal collectors 2011- today

Engagements

Part time employment: National university Sent Cyril and Methodius , Faculty of Natural science and mathematics, Institute of physics , Solar energy department

Awards

The Best Student of the Generation, University St's Cyril and Methodius, Faculty of Technology and Metallurgy, R. Macedonia, 1976

Silver Medal - Innovation: *Electro resistant butt flash welding copper with aluminum conductors without added material*, Makinova Fair, Skopje, 1990

Grand Prix - Innovation: *PVD, Plasma Nitriding and Oxinitriding*, Macedonian Economic Chamber, Technoma-Makinova, Skopje, 2005

Winner in Western Balkans Development Marketplace - Project Title: *New compact absorber for solar collectors with selective coatings*, Organized by The World Bank, Belgrade, 2006

Gold Medal - Nikola Tesla - Innovation: *Plasma oxinitriding*, Belgrade Association of Inventors and Technical Improvements, International Fair of Innovation, Belgrade, 2006

I-st Place Diploma - Academy of Innovators of Serbia and API SCG International Fair of Innovation, Belgrade, 2006

Memberships

President of Macedonian Solar Association , 2010 – today

President of NanoMak, Macedonian Association for Nano-Materials and Nano-Technologies, 2008-today

Member of Macedonian Association for Hydro Cells, 2008 - today

Member of the Association for Bio-Mass of Macedonia, 2007 - today

Member of the Energy Efficiency Body of Macedonian Society for Welding, 2000 – today

Member of the Macedonian Energy association

Member of the Society of Metallurgists of Macedonia, 1998 – today

Member of the Welding Association of Macedonia, 1998 – today

Committee Member of the Professional Journal “Engineering”, 2008
Member of Lions club Vardar Skopje

Patents /

Z. O. Vitalovich, **I. Nasov**, *The way of forming PVD coatings on the surface of the constructive steel after plasma nitriding*, 74749, MPK 2006, Ministry of Education and Science, Ukraine, 2006
I. Nasov, *Selective coatings on absorbers for solar collectors*, P-2006/83
I. Nasov, *Absorbers for solar collectors with selective coatings on the wings and on the tubes of the absorbers* P-2007/153,
I. Nasov, *Evacuated tube solar thermal collector with U type absorber and selective coating* **MKI F24J2/24,2/18,2/48 Int.Cl.8**,

Projects

I. Nasov, EUREKA: Systems For Assessment Of Surface Integrity, Eureka Project (E!4133 - PRO-FACTORY SURFACE +) 2008
I. Nasov, EUREKA: Development Of New Actuators, Materials And Technology For The Production Of Advanced Pneumatic And Hydraulic Valves, Eureka Project (E!4548 - DE_AMATECH), 2009
I. Nasov, EUREKA, Polycoat, Development of new materials, tools and technologies for depositing of thin polymer coatings on the EM stator. 2011
I. Nasov, project title: *Increasing of efficiency coefficient on vacuum tubes collectors using new types of absorbers*, Co financed by Ministry of education and science of R. Macedonia, **2008**.
I. Nasov, Plasma and Solar association of Macedonia, Austrian development agency, Solar collectors integrated in facades and roofs, 2010.
I. Nasov EU FP7 project POLYSOL, 2010
I. Nasov EU FP7 project COMPOSOL, 2011
I. Nasov EU FP7 project DIBIOPACK, 2012
I. Nasov EU FP7 project EAGLE, 2011
I. Nasov EU FP7 project RenewX, 20102
I. Nasov EU FP7 project Soleglass 2012

Lectures / Presentations / Published Work

I. Nasov, *Nano-selective coatings made by magnetron sputtering and arc deposition for solar absorbers*, Athens, Greece, 2009.
I. Nasov, *New types of solar collectors for hot water with nano selective coatings*, AEE Institute for Renewable Energy, Austria, 2009.
I. Nasov, *New selective coatings and collector developments in Macedonia*, Solar 2008 – 9th International Symposium Gleisdorf Solar, Gleisdorf, Austria, 2008.
I. Nasov, *Solar energy in architecture, incorporation solar thermal collectors in the roof and facade of the building*, co financed from Austria Development agency, 2010.
I. Nasov, *Lecture and presentation, Solar energy in Europe*, Annual conference of solar energy, Yangzhou China, 2010
I. Nasov, *Plenary Lecture and presentation, International congress for surface protection of materials, Surface engineering on metals and polymers using the newest technologies*, TARA, Serbia, 2010 .
I. Nasov *Plenary Lecture and presentation, International congress for surface protection and RES Budva, Monte Negro, 2010.*
I. Nasov, *High efficient solar thermal collector and new pvd selective coatings*, Jahorina, Bosnia and Herzegovina, 2011
I. Nasov, *The route from FP7 projects to a new company: case study- Plasma R&D center vs. Camel Solar – a production company*, Nano association of Macedonia, Skopje, 2012.
I. Nasov, *WBC INCO, An inspiring success story from Macedonia. 2012.*
I. Nasov, H. Kostadinova, S. Smilkov, *Physical Vapour Deposition Process and Potential Applications to Low-Cost Photovoltaic Solar Cells*, New frontiers of low cost photovoltaic solar cells - International Conference, Skopje, 2008.
M. Ristova, **I. Nasov**, D. Gracin, M. Milun, K. Juraic, H. Kostadinova, S. Smilkov, *Nanoporous TiO₂ capping layer for transparent conductive electrodes*, New frontiers of low cost photovoltaic solar cells - International Conference, Skopje, 2008
I. Nasov, H. Kostadinova, S. Smilkov, *Enhanced solar thermal collector efficiency using selective coatings and different absorber designs*, Energy Efficiency Conference, Skopje, 2008
I. Nasov, *“Solar water heaters”*, Workshop from Austrian Development Agency Impacts of the ADA project to the Macedonian Solar companies, Skopje, 2008.
I. Nasov, *New selective coatings and collector developments in Macedonia*, Solar 2008 – 9th International Symposium Gleisdorf Solar, Gleisdorf, Austria

I.Nasov, J.Mickovski, A Innovative Duplex nitride coatings process of HSS drills, 5th congress of the society of metallurgists of Macedonia, 2008.

M. M. Ristova, A. Gligorova, I. Nasov, D. Gracin, M. Milun “*TiO₂ Coating for SnO₂:F Films Produced by Filtered Cathodic Arc Evaporation for Improved Resistance to H⁺ Radical Exposure* “ , Journal of Elec Mater., 11664-012-2221-4, 2012 .

Ilija Nasov¹ , Anka Trajkovska Petkoska^b, Michael Kohl^c: SHC 2013, International Conference on Solar Heating and Cooling for Buildings and Industry September 23-25, 2013, Freiburg, Germany, *Novel Type of Facade Window Collector-Double Benefits: Good Architectural Appearance of Facade and Solving the Problems of Long Term Stability / Efficiency* **Ilija Nasov,**

Anka Trajkovska Petkoska, SB13 GRAZ, SUSTAINABLE BUILDING CONFERENCE 2013, 25-28 September, 2013, TU Graz, Austria “*Novel type of façade-window solar thermal collector*”

Anka Trajkovska Petkoska, Ilija Nasov “Designed Coatings on Food Industry Equipment - A Good Practice For Food Safety” , CeFood Ohrid 2014

Ilija Nasov, Anka Trajkovska Petkoska, “The Philosophy of EU FP7 projects - base for market competitiveness - case studies for successful applications and realizations of FP7 projects”, New Knowledge for new people, international conference, Ohrid 2014

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