



Nanostructured Bioceramic Materials



Preliminar Conference Program

1st December

Online Conference in MS „Teams“

Time	Presenter	Institution	Title of the Lecture
9:00 – 9:05	Welcome from the Dean of the Faculty of Chemistry and Geosciences Prof. Dr. Aldona Beganskienė		
9:05 – 9:15	Welcome from the President of Lithuanian Science Academy Prof. Dr. Jūras Banys		
9:15 – 9:30	Welcome from Research Pro-Rector of Vilnius University Prof. Dr. Edita Sužiedėlienė		
9:30 – 9:40	Welcome from Vice Dean of the Faculty of Medicine Prof. Dr. Vytautas Kasiulevičius		
9:40 – 10:00	Information from the Head of the Conference Organizational Committee Prof. Dr. Aivaras Kareiva		
10:00 – 11:00	Invited Speaker prof. dr. Pierre Rabu	University of Strasbourg, France	Strategy of Synthesis and Application of Nanostructured Materials
11:00 – 11:30	Coffee break		
Oral session I (Chairman Assoc. Prof. Dr. Ramūnas Skaudžius)			
11:30 – 12:30	Invited Speaker prof. dr. Vygandas Rutkūnas, Egidijus Šimoliūnas	Vilnius University, Lithuania	Dental Implantology and 3D Bioprinting. Clinical and Research Perspectives
12:30 – 14:00	Lunch break		
14:00 – 15:00	Invited Speaker prof. dr. Janis Locs	Riga Technical University, Latvia	Nanostructured Calcium Phosphate Biomaterials
15:00 – 16:00	Invited Speaker dr. Aleksej Žarkov	Vilnius University, Lithuania	Synthesis and Investigation of Tricalcium Phosphate Polymorphs
16:00 – 17:30	Poster presentation session I (Chairman Greta Inkrataitė)		



Nanostructured Bioceramic Materials



2nd December

Online Conference in MS „Teams“

Time	Presenter	Institution	Title of the Lecture
Oral session II (Chairman Assist. Prof. Dr. Aleksej Žarkov)			
9:00 – 10:00	Invited Speaker prof. dr. Karlis Gross	Riga Technical University, Latvia	Design and Nanostructuring of Calcium Phosphates for Bone Regeneration
10:00 – 11:00	Invited Speaker dr. Ramūnas Skudžius	Vilnius University, Lithuania	Bioceramic Materials and its Application in Medicine
11:00 – 11:30	Coffee break		
11:30 – 12:30	Invited Speaker Prof. Dr. Vladimir Sivakov	Leibniz Institute of Photonic Technology, Germany	Novel Application Perspectives of Nanostructured Silicon: Green Hydrogen and Biotechnology
12:30 – 14:00	Lunch break		
Oral session III (Chairman Assist. Prof. Dr. Živilė Stankevičiūtė)			
14:00 – 15:00	Invited Speaker prof. dr. Mangirdas Malinauskas	Vilnius University, Lithuania	Optical Mesoscale 3D Printing: from Renewable Organics to Crystalline Inorganics
15:00 – 16:00	Invited Speaker dr. Edita Garškaitė	Lulea University of Technology, Sweden	Synthesis of Nanocrystalline Apatitic Bioceramics for Bone Tissue Engineering and Computed Tomography Studies of Hybrid Organic-Inorganic Biocomposites
16:00 – 17:30	Poster presentation session II (Chairman Dovydas Karoblis)		

3rd December

Online Conference in MS „Teams“

Time	Presenter	Institution	Title of the Lecture
Oral session IV (Chairman Prof. Dr. Aivaras Kareiva)			
9:00 – 10:00	Invited Speaker Ieva Gendvilienė and dr. Milda Alksnė	Vilnius University, Lithuania	3D Printed Bone: an Innovative Solution for Bone Regeneration
10:00 – 12:00	Poster presentation session III (Chairman Justinas Januškevičius)		
12:00 – 13:00	Lunch break. Review of the results of the conference. Scientific discussions.		



Nanostructured Bioceramic Materials



POSTER SESSION I		
1st December 16:00 – 17:30		
P01	Afonina Anastasija	Low-Temperature Synthesis of Iron Doped Whitlockite Powders
P02	Aukštakojytė Rūta	Synthesis and Structural Characterization of Graphene Oxide and Thermally Reduced Graphene Oxide
P03	Bastakys Lukas	Structural and Tribological Properties of Ceramic Coatings Deposited by Plasma Spraying
P04	Beklešovas Benas	Chromium Oxide Synthesis by Reactive Magnetron Sputtering and Investigation
P05	Bilvinaitė Goda	A Micro-Computed Tomographic Evaluation of Single Cone Root Canal Fillings Performed by Undergraduate Student, Postgraduate Student, General Practitioner and Endodontist
P06	Bodylska Weronika	Bioactive Glass: Comparative Study on Particles with Different Sizes
P07	Budrevičius Darius	The Dependence of the Morphology Of GdPO ₄ on Ph
P08	Buzaitytė Eglė	Synthesis of LaPO ₄ :1%Eu Nanorods by Hydrothermal Method
P09	Diliautas Ramūnas	Preparation and Characterization of Bi _{1-x} GdxFe _{0.85} Mn _{0.15} O ₃ Solid Solutions
P10	Dolmantas Paulius	Modified Maxwell-Garnett Mie Effective Medium Formulation for Investigation of LSPR in DLC:Ag Nanocomposite Thin Films
P11	Drobysh Maryia	The Development of Electrochemical-Based Immunosensor for SARS-Cov-2 Detection
P12	Dukstiene Nijole	Sem/Eds and Xrd Studies of Ag-Cd-Se Thin Films Deposited on Polyamide 6
P13	Gabriūnaitė Inga	Phospholipid Membrane Formation on Fluorine Doped Tin Oxide for Biosensing of Toxins
P14	Gaidamavičienė Giedrė	Various Aqueous Synthesis Methods and Characterization Techniques for Nanocrystalline Calcium Molybdate as a Antimicrobial Component
P15	Griesiute Diana	Hydrothermal Synthesis of Copper-Containing Calcium Phosphate with Whitlockite Structure
P16	Griniuk Evelina	Influence of Synthesis Conditions on Formation Tungsten Oxide Thin Films
P17	Halubek-Gluchowska Katarzyna	Bioactivity and Optical Properties of SiO ₂ -CaO Glass Doped with Tm ³⁺ /Yb ³⁺ Ions
P18	Yang Chang Jen	Effect of Gamma-Polyglutamic Acid/Nano-Hydroxyapatite (G-Pga/Nano-Hap) Paste on Rehardening and Prevention of Surface Etched Enamel



Nanostructured Bioceramic Materials



POSTER SESSION II 2nd December 16:00 – 17:30		
P19	Inkrataitė Greta	Determination of Different Garnet Films Characteristics Prepared Using Sol-Gel and Spin or Dip-Coatings Techniques
P20	Ivanets Andrei	Synthesis and Crystal Structure of Magnesium Ferrites Doped by Lanthanids
P21	Jonaitytė Eglė Marija	Evaluation of Microarchitecture and Collagen Coating of Regular and Irregular Structure 3D Polycaprolactone Scaffolds for Dental Pulp Tissue Regeneration
P22	Jreije Antonio	Development of Bone Equivalent 3D Printing Composites for Patient Specific Quality Assurance in Radiotherapy
P23	Jurgilevičius Jurgis	Comparison of 8 Different Impression Copings Splinting Methods
P24	Kalyk Fariza	Synthesis and Evaporation of Gadolinium-Doped Ceria Electrolyte for It-SOFC Applications
P25	Kaminskas Algimantas	A Poly(1,10-Phenanthroline-5,6-Dione), Poly(Pyrrole-2-Carboxylic Acid), Gold Nanoparticles And Glucose Oxidase Nanobiocomposite Based Graphite Electrode as a Potential Anode for Biofuel Cell Powered by Glucose
P26	Kantminienė Kristina	Derivatives of 3-[(4-Methoxyphenyl)Amino]Propanehydrazide: Towards Anticancer and Antioxidant Agents
P27	Kavaliauskaitė Gabija	Ferric Hexacyanoferrate Modified Electrode for Impedimetric Urea Sensing
P28	Kyshkarova Viktoriia	Synthesis of Silica/PIGA Composites by Solution Mixing Method
P29	Kizalaitė Agnė	Synthesis of Zinc Whitlockite by Dissolution-Precipitation Process
P30	Knabikaitė Inga	Al ³⁺ Influence on the Formation of Calcium Silicates by Using Two Step Synthesis
P31	Kusyak Andrii	Features of Biodegradation of Sol-Gel Bioactive Glass 60s Doped with Ge
P32	Latushka Siarhei	Crystal Structure and Magnetic Properties of Bi _{1-x} Sm _x FeO ₃ Compounds Across the Phase Boundary: Effect of External Pressure
P33	Liustrovaitė Viktorija	Phospholipid Bilayer Formation and Characterization Immobilizing Chlorophyll A
P34	Lubinaitė Ernesta	Spectrophotometric Determination of Heparin Based on Aggregation of Gold Nanoparticles
P35	Markevičiūtė Henrieta	Morphological Study of Bio-Nanocomposites Based on Pa6/Selenium Compounds
P36	Matijošius Tadas	Adhesion of Fibroblast Cells to Bioceramic Coatings on Aluminum



Nanostructured Bioceramic Materials



POSTER SESSION III 3rd December 10:00 – 12:00		
P37	Karoblis Dovydas	Sol-Gel Synthesis and Characterization of SrTiO ₃ -BiMnO ₃ Solid Solutions
P38	Melnyk Inna	Perspectives of Sol-Gel Silica Particles Loaded with Cu, Eu for Biomedical Applications
P39	Merkininkaitė Greta	Application of Metalorganic Precursors for Laser Fabrication
P40	Michailova Laura	Role of Capping Agent in Formation of Photoelectrochemically Active Tungsten Oxide
P41	Navaruckiene Aukse	Vanillin Derivatives as Resins for Optical 3D Printing
P42	Norkus Mantas	Europium Doped Luminescent Glass Synthesis and Characterization
P43	Pakalniskis Andrius	Characterization of Sm-Doped BiFeO ₃ Ceramics Crystal Structure and Magnetization Across the Phase Boundary Region
P44	Parvin Maliha	Bacterial Inactivation Using WO ₃ Photoanode for Production of Reactive Chlorine Species in Situ
P45	Poderytė Margarita	Scanning Electrochemical Microscopy as a Tool for Targeted Electroporation Modeling
P46	Povilavičius Ignas	In Vitro Comparison of Different Cement Remnant Removal Efficiency on Dental Implant-Supported Restorations
P47	Prozorovich Vladimir	Design of Manganese Oxide Sorbents for Selective Strontium Radionuclide Removal
P48	Pudule Anna	Carbonate in Amorphous Calcium Phosphate: Influence on Nanolevel Structuring
P49	Ramanavičius Simonas	Formation of Various TiO ₂ -X Nanostructures for Application in Biomedicine
P50	Rimkutė Gintarė	Investigation of Thermally Reduced Graphene Oxide and its Application in Amperometric Third Generation Biosensors
P51	Ruginytė Kristina	The Formation and Thermal Stability of Mayenite
P52	Sakalauskienė Laura	Electrochemical Synthesis of Dendritic Gold Nanostructures and Application for the Development of Glucose Biosensor
P53	Sinušaitė Lauryna	Effect of Mn Doping on Hydrolysis of Low Temperature Synthesized Metastable Alpha-Tricalcium Phosphate
P54	Skrudienė Monika	Sol-Gel and Molten Salt Synthesis of Novel Y ₃ -2xCa ₂ TaxAl ₅ -xO ₁₂ Garnet Structure Phosphors
P55	Svazas Ernestas	Comparison of Two Different Healing Abutment Cleaning Protocols
P56	Šerpytis Lukas	Synthesis of NaYF ₄ Nano/Micro Particles by Microwave-Assisted Solvothermal Method
P57	Šuopys Airingas	Microstructure and Corrosion Properties of Plasma Sprayed Al ₂ O ₃ and Al ₂ O ₃ -TiO ₂ Coatings



Nanostructured Bioceramic Materials



P58	Šuopys Airingas	Microstructure and Corrosion Properties of Plasma Sprayed Al ₂ O ₃ and Al ₂ O ₃ -TiO ₂ Coatings
P59	Valeikienė Ligita	Sol-Gel Synthesis of Mg ₂ -XM _x /Al ₁ (M = Ca, Sr, Ba) Layered Double Hydroxides
P60	Virbickas Povilas	Application of Transition Metals Hexacyanoferrates in Optical Sensing of Hydrogen Peroxide
P61	Zolubas Eimantas	Vesicle Immobilisation on Titanium Foil Nanopores
P62	Žalga Artūras	Aqueous Sol-Gel Synthesis and Characterization of Apatite-Type Materials