

Joint Conferences Preliminary Program

15 - 17 June 2022, Paris, France

June 15, 2022		
08:00 - 12:00	Onsite Participant registration	
Nanotech / GAMS Joint Plenary session		
Amphithéâtre		
Session's Chairs: Prof. Jacques Jupille, Institut des Nanosciences de Paris, France Dr. Arantzazu Garcia-Lekue, Donostia International Physics Center, Spain Prof. Rodrigo Ferrão de Paiva Martins, Nova Univ. of Lisbon, Portugal		
10:00 - 10:30	Using 2D materials in a 3-dimensional world: from nanochemistry to technology applications V. Palermo	Prof. Vincenzo Palermo , Institute for Organic Synthesis and Photoreactivity- CNR - Italy
10:30 - 11:00	LEGO chemistry for graphene-based nanoarchitectures: from 0D quantum dots to 2D lateral heterostructures A. Mugarza	Prof. Aitor Mugarza , Catalan Institute of Nanoscience and Nanotechnology (ICN2), Spain
11:00 - 11:30	0D + 1D = 2D: Heterogeneous Electrodes by Electrospinning Q. Li, F. Yan and J. Texter	Prof. John Texter , Eastern Michigan University, USA
11:30 - 12:00	Modelling complex nanosystems for drug delivery, targeting and imaging C. Di Valentin	Prof. Cristiana Di Valentin , University of Milan-Bicocca, Italy
12:00 - 12:30	Synthesis of (multi-)Metal core-shell and alloyed nanoparticles by atmospheric pressure plasma filament-surface interaction J-P. Borra	Prof. Jean-Pascal Borra , Paris-Saclay University, France
12:00 - 14:00 Lunch Break		
Nanotech / GAMS Joint Session I.A: Nanomaterials Fabrication / Synthesis / properties		
Amphithéâtre		
Session's Chairs: Prof. Jacques Jupille, Institut des Nanosciences de Paris, France Prof. John Texter, Eastern Michigan University, USA Prof. Jean-Pascal Borra, Paris-Saclay University, France		
14:00 - 14:30	Addressing magnetic and topological properties of graphene nanoribbons A. Garcia-Lekue	Dr. Arantzazu Garcia-Lekue , Donostia International Physics Center, Spain
14:30 - 15:00	Growth of transition metal dichalcogenides on sapphire by Molecular beam epitaxy. Application to high frequency detectors and mixers P. Legagneux	Dr. Pierre Legagneux , Thales Research and Technology- Palaiseau, France
15:00 - 15:15	One-step Elaboration of Janus Polymeric Nanoparticles M. Vauthier and C. A. Serra	Dr. Madeline Vauthier , University of Strasbourg, France
15:15- 15:30	Calix[4]arene-Tetradiazonium Salts: a Powerful and Versatile Tool for Nanomaterials Functionalization. M. Retout, B. Gosselin, I. Jabin and G. Bruylants	Prof. Gilles Bruylants , Université libre de Bruxelles, Belgium
15:30 - 15:45	Mass producing of TEMPO oxidized nanofibers from thermomechanical pulp for various applications: global approach needed D. Myja, E. Loranger and R. Lanouette	Prof Eric Loranger , University of Quebec in Trois-Rivières, Canada

15:45 - 16:00	Synthesis, characterization and industrial application of a nanofluid based on copper nanoparticles with long-lasting antimicrobial effect E. Salas-Huenuleo , R. Torres, N. Wainstein, O. Oviedo-Rojas, L. Salas-Huenuleo and P. Valenzuela-Bustamante	Mr. Edison Salas-Huenuleo , Advanced Integrated Technologies, Chile
16:00 - 16:30 Afternoon Coffee Break		
Session's Chairs: Prof. John Texter, Eastern Michigan University, USA Dr. Pierre Legagneux, Thales Research and Technology- Palaiseau, France. Prof. Jean-Pascal Borra, Paris-Saclay University, France		
16:30 - 17:00	Electro-Flexure Response of Multi-Functional Natural Fiber Hybrid Composites C. Meninno, V. Chalivendra and Y. Kim	Prof. Yong K Kim , Univ. of Massachusetts Dartmouth, USA
17:00 - 17:15	Synthesis of porous high-temperature superconductors via a templated approach E. Luke , J. Potticary, L. Terry, H. Doan, V. Ting, S. Friedemann and S.R Hall	Ms. Emily Luke , University of Bristol, UK
17:15 - 17:30	From solution to surface: Molecular engineering of functional supra-molecular assemblies on graphene-based surfaces S. Moradmand , Q. Fernez, O. De Luca, L. Sosa Vargas, P. Rudolf and I. Arfaoui	Ms. Shiva Moradmand , Sorbonne University, France
17:30 - 17:45	Ionic concentration and substrate dependent surface potential of single layer graphene by in-liquid Dual-Harmonic KPFM M. Delgà-Fernández , E. del Corro, L. Collins, M. Checa, X. Illa, A. P. Pérez and J. A. Garrido	Mrs. Marta Delga Fernandez , Catalan Institute of Nanoscience and Nanotechnology, Spain
17:45 - 18:00	Submicron 4D Printing of Shape Memory Polymer W. Zhang , H. Wang, H.T. Wang and J.K.W. Yang	Mr. Wang Zhang , Singapore University of Technology and Design, Singapore
18:00 - 18:15	3D Printed Colorful Vortex Beam Generator and Decoder H. Wang , H. Wang, W. Zhang, J.Y.E. Chan and J. K.W. Yang	Mr. Hongtao Wang , Singapore University of Technology and Design, Singapore
18:15 - 18:30	Nanoscale 3D Printing of Light Field Prints J.Y.E. Chan , Q. Ruan, M. Jiang, H. Wang, H. Wang, W. Zhang, C-W. Qiu and J.K.W. Yang	Mr. John Chan , Singapore University of Technology and Design, Singapore.
18:30 - 18:45	Effect of Nano Silica on Mechanical and Water absorption properties of Hybrid composites of Basalt fibers, Glass fibers, Hemp fibers and Unsaturated Polyester Resin P. Dayalan and P.A Mahanwar	Prof. Prakash Mahanwar , Institute of Chemical Technology- Mumbai, India
18:45 - 19:00	The investigation of cathode layer of Molten Carbonate Fuel Cell manufactured by using printing techniques J. Milewski	Prof. Jaroslaw Milewski , Warsaw University of Technology, Poland

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**Nanotech / NanoMetrology joint session I.B:
Nanomaterials Modelling and Characterisation**

Conference Room Derain 1+2

Session's Chairs:

Prof. Yong K Kim, Univ. of Massachusetts Dartmouth, USA
Prof. Vincenzo Palermo, Institute for Organic Synthesis and Photoreactivity- CNR, Italy
Prof. Aitor Mugarza, Catalan Institute of Nanoscience and Nanotechnology (ICN2), Spain

14:00 - 14:30	TEM and related microanalytical techniques: a powerful tool for the characterization of low band-gap rod-coil block copolymer:PC61BM blend water-processable nanoparticles A.M.Ferretti and S.Zappia	Dr. Anna Maria Ferretti, CNR-SCITEC Milano, Italy
14:30 - 15:00	Ethics of Nanotechnology in the framework of the NanoFabNet Hub for sustainable, industrial-scale Nanofabrication F. Doridot	Dr. Fernand Doridot, Center for Ethics, Technics and Society, France
15:00 - 15:15	Length and diameter determination of rod-like nanoparticles using Depolarized Dynamic Light Scattering B. Maxit, F.Aubrit, H. Anop, S. Boj, O. Sandre and D. Jacob	Dr. Benoit Maxit, Cordouan Technologies, France
15:15 - 15:30	A Unique And Enhanced Approach To Measure The Effective Surface Tension of A nanoparticle coated Liquid Marble P. Singha, N-K. Nguyen, J. Zhang, N-T. Nguyen and C. H. Ooi	Mr. Pradip Singha, Griffith University, Australia
15:30 - 15:45	Experimental characterization and numerical modelling of polymer-based nanocomposite properties G. Ongaro, R. Bertani, U. Galvanetto and M. Zaccariotto	Mrs. Greta Ongaro, University of Padova, Italy
15:45 - 16:00	Quantification of the Total and Accessible Number of Functional Groups and Ligands on Nanomaterials I. Tavernaro, N. Nirmalanathan-Budau and U. Resch-Genger	Dr. Isabella Tavernaro, BAM- Berlin, Germany

16:00 - 16:30 **Afternoon Coffee Break**

Session's Chairs:

Dr. Fernand Doridot, Center for Ethics, Technics and Society, France
Dr. Anna Maria Ferretti, CNR-SCITEC Milano, Italy

16:30 - 16:45	Microfluidics and Microscopy – A Powerful Combination for the Development of Novel Micro-and Nano-structured Soft Materials with Designer Functionality C. Hao, D. Scholz, N. Stephens and G. Redmond	Ms. Chenxi Hao, University College Dublin, Dublin, Ireland
16:45 - 17:00	Physico-Chemical Characterization of Hydroxyapatite Nanoparticles from Tricalcium Phosphate Food Additive Y. El Moussaoui, H. Terrisse, S. Quillard, MH. Ropers and B. Humbert	Mr. Youssef El Moussaoui, Nantes University, France
17:00 - 17:15	A simple approach to the deflection detection of the nanowires M. Sharma, A.S. Prasad, B. Büchner and T. Mühl	Ms. Maneesha Sharma, TU Dresden, Germany
17:15 - 17:30	Iron Oxide Nanoparticles as Versatile Nanoscale Reference Materials S.-L. Abram, P. Mrkwitschka, A. F. Thünemann, B. Rühle, O. Löhmann, P. Kuchenbecker, H. Bresch, V.-D. Hodoroaba, and U. Resch-Genger	Dr. Sarah-Luise Abram, Federal Institute for Materials Research and Testing, Germany
17:30 - 17:45	Tiered Approach Strategy for Occupational Risk Assessment and Management of Lightweight Metals Reinforced with Nanomaterials using Direct Energy Deposition Process J. Laranjeira, C. Matos, A. R. Alberto, C. F. Martins, K. F. Neves and M. F. N. N. Carvalho	Dr. João Laranjeira, ISQ Institute, Portugal
17:45 - 18:00	The monitoring system of nanoaerosols and noise hazards in an industrial facility based on low-cost environmental sensors T. Jankowski and P. Sobiech	Dr. Tomasz Jankowski, Central Institute for Labour Protection, Poland

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Biotech Session I. A

Conference Room Moreau 1

Session's Chairs:

Prof. Magali Remaud-Simeon, INSA Toulouse, France
Prof. Izabela Michalak, Wroclaw University of Science and Technology, Poland
Prof. Khaled Masmoudi, United Arab Emirates, UAE

11:00 - 11:30	Laboratory digitalization and automation – the challenges of faster bioprocess development P. Neubauer and M. N. Cruz Bournazou	Prof. Peter Neubauer, Technische Universität Berlin, Germany
11:30 - 12:00	The autotrophic metabolism as interface between renewable energy and redox biocatalysis. R. Kourist	Prof. Robert Kourist, Graz University of Technology, Austria

12:00 - 14:00

Lunch Break

Session's Chairs:

Prof. Peter Neubauer, Technische Universität Berlin, Germany
Prof. Saulius Klimasauskas, Vilnius University, Lithuania

14:00 - 14:30	An enzymatic journey into glycopolymer country M. Remaud-Simeon	Prof. Magali Remaud-Simeon, INSA Toulouse, France
14:30 - 14:45	Photobiocatalytic Oxyfunctionalization with High Reaction Rate using a Baeyer-Villiger Monooxygenase from Burkholderia xenovorans in Metabolically Engineered Cyanobacteria L. Malihan-Yap, E. Erdem, L. Assil-Companiononi, H. Grimm, G. Barone, C. Serveau-Avesque, A. Amouric, K. Duquesne, V. Berardinis, Y. Allahverdiyeva, V. Alphand and R. Kourist	Dr. Lenny Malihan-Yap, Graz University of Technology, Austria
14:45 - 15:00	Biocatalytic synthesis of novel polyesteramide nanoparticles derived from ϵ -caprolactam and hydroxy acids I.C. Benea, D.M. Dreavă, I. Bîtcă, C. Paul, A. Todea, L. Nagy, S. Kéki, I. Kántor, T. Feczko and F. Péter	Ms. Ioana-Cristina Benea, Politehnica University Timisoara, Romania
15:00 - 15:15	Seed Oilcakes Biorefinery as a Promising Renewable Resources for Producing Value-Added Products S. F. Mirpoor, C.V. L. Giosafatto and R. Porta	Ms. Seyedeh.F. Mirpoor, Federico II University of Naples, Italy
15:15 - 15:30	Green seaweed – Enteromorpha sp. as a feedstock for bioprocess engineering N. Niedzbała, E. Lorenc-Grabowska, P. Rutkowski, A. Szymczycha-Madeja, M. Welna and I. Michalak	Prof. Izabela Michalak, Wroclaw University of Science and Technology, Poland
15:30 - 15:45	Engineering Methyltransferase Pathways for Selective Chemical Tracking of Epigenetic Writers in Mammalian Cells V. Stankevičius, P. Gibas, B. Masiulionytė, L. Gasiulė, V. Masevičius, G. Vilkaitis and S. Klimašauskas	Prof. Saulius Klimasauskas, Vilnius University, Lithuania
15:45 - 16:00	Evolution-guided metabolic engineering for improving synthetic, genome-reduced co-cultures of C. glutamicum S. Schito, R. Zuchowski, F. Neuheuser, M. Bott, W. Wiechert, M. Baumgart and S. Noack	Mr. Simone Schito, Jülich Research Centre, Germany

16:00 - 16:30

Afternoon Coffee Break

Session's Chairs:

Prof. Izabela Michalak, Wroclaw University of Science and Technology, Poland
Prof. Khaled Masmoudi, United Arab Emirates, UAE

16:30 - 16:45	What if Escherichia coli fails? Exploiting an Antarctic bacterium for the production of proteins harbouring intrinsically disordered regions A. Colarusso, C. Lauro, M. Calvanese, E. Parrilli and M.L. Tutino	Dr. Concetta Lauro, Federico II University of Naples, Italy
16:45 - 17:00	Membrane transporter identification and modulation via adaptive laboratory evolution M.Radi and A. Feist	Mr. Mohammad Radi, Technical University of Denmark, Denmark

17:00 - 17:15	Engineering Escherichia coli to produce industrially relevant oleochemicals P. Matthay , K. Bernaerts, K. Simoens, N. Verstraeten and J. Michiels	Mr. Paul Matthay , KU Leuven, Belgium
17:15 - 17:30	Microencapsulation of primary human tonsillar B cells for directed ex vivo cultivation platform S. B. Huang , M. Helm, V. Jérôme and R. Freitag	Mr. Songyan Ben Huang , University of Bayreuth, Germany
17:30 - 17:45	Multifaceted Roles of Versatile LEA-II Proteins from Cereals and Date Palm K. Masmoudi , M. Abdul Aziz, S. Rahman and F. Brini	Prof. Khaled Masmoudi , United Arab Emirates, UAE
17:45 - 18:00	The Ethics of synthetic meat. Hypes and hopes of a new challenging technology L. Lo Sapio	Mr. Luca Lo Sapio , The University of Turin, Italy

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Nanotech / GAMS / Biotech Joint session II.

Amphithéâtre

Session's Chairs:

Prof. Saulius Klimasauskas, Vilnius University, Lithuania

Prof. Magali Remaud-Simeon, INSA Toulouse, France

08:30 - 09:00	Making the enzymatic synthesis of bio-based polyesters feasible: from bioinformatics to pilot plant A. Todea, F. Asaro, M. Spennato, F. Zappaterra and L.Gardossi	Prof. Lucia Gardossi , University of Trieste, Italy
09:00 - 09:15	Use of a Microbioreactor for Screening of Fungal/Bacterial Co-culture Activity against a Fusarium Strain E. Mephane , E. Heuson, N. Imatoukene, M. Lopez and V. Phalip	Ms. Eléonore Mephane , Univ. Lille, France
09:15 - 09:30	Stereoselective synthesis of whisky lactones catalysed by bacteria from Rhodococcus erythropolis species D. Hernik , F. Boratyński and E. Brenna	Mr. Dawid Hernik , Wrocław University of Environmental and Life Sciences, Poland
09:30 - 09:45	Fungistatic potential of Apiaceae lactones and their derivatives J. Gach and T. Olejniczak	Ms. Joanna Gach , Wrocław University of Environmental and Life Sciences, Poland
09:45 - 10:00	Effect of acid pretreatment on the primary products of biomass fast pyrolysis D.O Usino , T. Sar, P. Ylivero and T. Richards	Mr. David Usino , University of Borås, Sweden
10:00 - 10:15	Much More than Salts and Mixtures: Functionalized Ionic Liquids and Eutectic Systems for Biomolecules Purification, Greenhouse F-gases Separation, and Drug Formulation S.F. Carvalho, J.C. Bastos, M.F. Ferreira, J. E. Sosa, P.J. Castro, A.B. Pereiro and J.M. M. Araújo	Dr. João Araújo , NOVA University Lisbon, Portugal
10:15 - 10:30	Bioprivileged Fluorinated Ionic Liquids in the Purification of Proteins: Towards Enhanced Tunability of Aqueous Biphasic Systems S.F. Carvalho , M.H. Custódio, A.B. Pereiro and J.M. M. Araújo	Ms Sara Carvalho , NOVA University Lisbon, Portugal
10:30- 10:45	Characterization and Biotechnological Potential of Extracellular Polysaccharides Synthesized by Alteromonas Strains Isolated from French Polynesia Marine Environments P. Concórdio-Reis , V. D. Alves, J. R. Pereira, X. Moppert, J. Guezennéc, M. A. M. Reis and F. Freitas	Ms. Patrícia Concórdio-Reis , NOVA University Lisbon, Caparica, Portugal
10:30 - 11:00	Morning Coffee Break	
Session's Chairs:		
Prof. Wolfgang Ensinger, Technical University Darmstadt, Germany		
11:00 - 11:30	Nano(Bio)Technological approaches for the diagnosis of infectious diseases M. P. Marco	Prof. Pilar Marco , IQAC-CSIC/CIBER-BBN, Spain
11:30 - 12:00	Neurological phenotypic nanomedicines: BBB crossing and new therapy development G. Battaglia	Prof. Giuseppe Battaglia , ICREA/ IBEC/ BIST, Spain and University College London, UK
12:00 - 12:15	Advanced Dynamic Light Scattering and its Application to Life Sciences C. Bretz , A. Vaccaro and D. Leumann	Dr. Coline Bretz , LS Instruments, Switzerland
12:00 - 14:00	Lunch Break	

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**Nanotech / Biotech - Session II.D:
Nanotechnology for life science- Biosensors, Diagnostics and Imaging**

Amphithéâtre

Session's Chairs:
Prof. Pilar Marco, IQAC-CSIC/CIBER-BBN, Spain
Prof. Vincenzo Palermo, Institute for Organic Synthesis and Photoreactivity- CNR, Italy

14:00 - 14:15	WELFA : WAINVAM-E Lateral Flow Assay - Innovative and Ultra Sensitive LFA System using the Properties of NV Center Diamonds A. Bournigault-Nuquet, D. Rani , M. Raude, B. Shevchenko, R. Geiger	Mrs. Ditpi Rani , WAINVAM-E, France
14:15 - 14:30	Development of a novel carbonized porous silicon electrochemical sensing platform by pyrolysis of furfuryl alcohol A.A. Rajendran , K. Guo, M. Bujaldon Velasco, K. Shafique, P. Formentín, H. Haji-Hashemi, N.H. Voelcker, X. Cetó and B. Prieto-Simón	Mr. Anandapadmanabhan A. Rajendran , University of Rovira i Virgili, Spain
14:30 - 14:45	Rapid fabrication of responsive biodegradable microstructures; an introduction to a low invasive research track of multiphoton polymerization for a resolved clinical application A. Zeynali , M. Budimir, M. Marini, M. Collini, M. Lecchi, S. Blasa and G. Chirico	Dr. Amirbahador Zeynali , University of Milano-Bicocca, Italy
14:45- 15:00	in-vitro Monitoring of Extracellular Matrix Protein Conformations us-ing Gold-Edge-Coated Triangular Silver Nanoplates within a Cellular High-Noise Environment in the Presence of Chitosan Biocompatible Hydrogels L.G. Rodriguez Barroso , F. Azaman, R. Pogue, D. Devine and M. Brennan-Fournet	Ms. Laura G. Rodriguez Barroso , Technological University of the Shannon, Ireland
15:00 - 15:15	Self-Assembly of Carbohydrate-based Bottlebrushes in Solution: Glyco-Nanoparticles H. Li and R. Borsali	Mr. Hong Li , CERMAV- Univ. Grenoble Alpes, France
15:15 - 15:30	Probing the glycans accessibility of the nanoparticle biomolecular corona E. Clemente , M. Martinez-Moro, D. Spencer, R.A Gardner, M. Kotsias, S. Moya and M.P Monopoli	Ms. Eva Clemente , Royal College of Surgeons in Ireland, Ireland
15:30 - 15:45	Gold nanoparticles long-term evaluation in liver: role of shape, size and surface functionalization J. Fernandez Alarcon , M. Soliman, T. Ludtke, E. Clemente, M. B. Violatto, A. Corbelli, F. Fiordaliso, C. Cordiglieri, L. Talamini, G. Sitia, S. Moya, P. Bigini and M. P. Monopoli	Mrs. Jennifer Fernandez Alarcon , The Mario Negri Institute for Pharmacological Research, Italy
15:45 - 16:00	Exploring the Synthesis Conditions for Magnetic Pd/Fe-oxide Nanoparticles A. Maier , R. van Oossanen, G. van Rhoon, A. G. Denkova and K. Djanashvili	Ms. Alexandra Maier , Delft University of Technology, The Netherlands
16:00 - 16:30	Afternoon Coffee Break	
16:30 - 16:45	Polyhydroxyalkanoates (PHAs) and FucoPol based scaffolds for tissue engineering applications J.R. Pereira , A.M. Rafael, A. Esmail, P. Zoio, F. Silva, A.C. Marques4, C. Sevrin, C. Grandfils, E. Fortunato, A. Oliva, M.A. M. Reis and F. Freitas	Mr. João Ricardo Pereira , NOVA University Lisbon, Portugal

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**NanoMatEn / GAMS Joint Session III.A:
Materials and Nanomaterials for Energy / Nanoelectronics/ Nanophotonics**

Conference Room Derain 1+2

Session's Chairs:

Prof. Elisabetta Dimaggio, University of Pisa, Italy
Prof. Beongki Cho, Gwangju Institute of Science and Technology, Rep. of Korea
Prof. HyunChul Sohn, Yonsei University, Rep of Korea

08:30 - 09:00	Chipless Electronics: a Sustainable Commitment beyond Silicon R. F. de Paiva Martins	Prof. Rodrigo Ferrão de Paiva Martins , Nova Univ. of Lisbon, Portugal
09:00 - 09:30	Structural color in ordered and disordered photonic media M. Eich	Prof. Manfred Eich , Hamburg University of Technology, Germany
09:30 - 10:00	Nanomaterials for Hydrogen, Fuel Cells and Thermal Energy J.W. Sheffield	Prof. John W. Sheffield , Purdue University, USA
10:00 - 10:15	Correlating the functional properties of graphene on the nanoscale I.M. Hermes, S. Krotkus, M. Heuken, B. Conran, A. Klasen , C. McAleese, X. Wang and O. Whear	Dr. Alexander Klasen , Park Systems Europe, Germany
10:15 - 10:30	Exploring Memristive Squaraine Microtubes: Programmable Multi-Level Memory Behaviour for Neuromorphic Applications K. Griffin	Mr. Karl Griffin , University College Dublin, Ireland
10:30 - 11:00	Morning Coffee Break	
11:00 - 11:15	Parametric spinwave excitation and mode control using built-in current in a NiFe nanowire B. K. Cho , S. H. Han and S. Hwang	Prof. Beongki Cho , Gwangju Institute of Science and Technology, Rep. of Korea
11:15 - 11:30	Nonlinear optical thermometry based on Upconversion Luminescence and Second Harmonic Generation (SHG) T. Zheng , M. Runowski, S. Lis, I.R. Martin, M. Vega and J. Llanos	Mr. Teng Zheng , Adam Mickiewicz University, Poland
11:30 - 11:45	Synthesis of tunable nano-lamellar transition metal hybrid materials and their behavior as battery electrode materials. T. Riant , J. Maynadie, and D. Meyer	Mr. Tennessee Riant , University of Montpellier, France
11:45 - 12:00	InN on Si(100) photovoltaic devices with an amorphous Si interlayer deposited by DC and RF sputtering M. Sun , F. B. Naranjo and S. Valdueza-Felip	Mr. Michael Sun , University of Alcala, Spain .
12:00 - 12:15	Trichalcogenide materials for small bandgap photovoltaic devices E. Edri	Dr. Eran Edri , Ben-Gurion University of the Negev, Israel
12:15 - 12:30	2D Organic-inorganic perovskites for next generation optoelectronics K.J Riisnaes , R. Mastia, A. Bacon, H.T Lam, L De Marco, M. Craciun and S. Russo	Mr. Karl Jonas Riisnaes , University of Exeter, UK
12:30 - 12:45	Photoexcitation dynamics and long-lived excitons in strain-engineered transition metal dichalcogenides N. Mondal, N. Azam, Y.N. Gartstein, M. Mahjouri-Samani and A.V. Malko	Prof. Anton V. Malko , The University of Texas at Dallas, USA
12:00 - 14:00	Lunch Break	

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NanoMatEn - Session III.B
Nanotechnology for Energy / Nanocatalysis (Part I)

Session's Chairs:
Prof. Rodrigo Ferrão de Paiva Martins, Nova Univ. of Lisbon, Portugal
Prof Manfred Eich, Hamburg University of Technology, Germany

14:00 - 14:30	Boosting 2D semiconductors with molecules: high performance multi-responsive electronic devices P. Samori	Prof. Paolo Samori , University of Strasbourg, France
14:30 - 15:00	From classic technologies for novel devices, to novel approaches for classic devices E. Dimaggio	Prof. Elisabetta Dimaggio , University of Pisa, Italy
15:00 - 15:30	Nanoarchitecture for energy conversion S. Christiansen	Prof. Silke Christiansen , Fraunhofer IKTS, Germany
15:30 - 15:45	Bio-Inspired Materials for the Energy Challenge of the Century T. Tajima and T. Massard	Dr. Thierry Massard , AE Technologies, USA
15:45 - 16:00	Tuning the properties of 2D perovskites A. Coriolano , L.Polimeno, M. De Giorgi, D. Sanvitto and L. De Marco	Mrs. Annalisa Coriolano , University of Salento, Italy
16:00 - 16:30 Afternoon Coffee Break		
Session's Chairs: Prof. Rodrigo Ferrão de Paiva Martins, Nova Univ. of Lisbon, Portugal Prof. John Texter, Eastern Michigan University, USA		
16:30 - 16:45	Mott-insulator titanium sesquioxide: A novel electrochemical capacitor S. Kumar , S. Nandi, V. Mishra, A. Shukla and A. Misra	Ms. Sumana Kumar , Indian Institute of Science-Bangalore, India
16:45 - 17:00	Nanoparticles for High-Luminance Light-Emitting Diodes for Efficient Automotive Systems. J.J.Santaella , S.Rodríguez-Bolívar, L. Puga-Pedregosa, A. González-Rico, M. Marín-González and F.M.Gómez-Campos	Dr. Juan J Santaella , VALEO Lighting Systems, Spain
17:00 - 17:15	Complementary reduced Graphene Oxide-based inverter for ion sensing R. Boukraa , G. Mattana, N. Battaglini and B. Piro	Mr. Rassen Boukraa , ITODYS- Paris Cité University, France
17:15 - 17:30	An Unified Approach for Nanoplasmonics of Metal and Graphene-Based Nanostructures T. Giovannini , L. Bonatti and C. Cappelli	Dr. Tommaso Giovannini , Scuola Normale Superiore-Pisa, Italy
17:30 - 17:45	Two-dimensionnal substrate (MXene, graphene) supported nickel/iron-based catalysts for oxygen evolution reaction in alkaline medium L. Loupías, C. Morais, V. Mauchamp, S. Célérier and A.Habrioux	Dr. Aurélien Habrioux , University of Poitiers, France
17:45 - 18:00	Synthesis and Modeling of Supported Bimetallic Iron- and Copper Oxide nanoparticles and their Application in Fenton Reaction B. Seynnaeve , J. Lauwaert, P. Van Der Voort and A. Verberckmoes	Mr. Bram Seynnaeve , Ghent University, Belgium
18:00 - 18:15	Controlled loading of single atoms in oxygen vacancies as a co-catalyst on TiO ₂ -x nanotube reduced by ultrasonication M. Shahrezaei , S. M. H. Hejazi, R. Zboril, A. Naldoni and S. Kment	Mr. Mahdi Shahrezaei , Palacký University, Czech Rep
18:15 - 18:30	Ternary phosphides (CuxCoyP) as efficient electrocatalysts for HER and OER D. Bandyopadhyay , S. Ghosh and M. Bar-Sadan	Ms. Dyuti Bandyopadhyay , Ben-Gurion University of the Negev, Israel

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Nanotech / GAMS 2022 - Joint Session II.B - Nanocoatings/ Thin films and nanostructured surfaces

Conference Room Moreau 1

Session's Chairs:

Prof. Faruk Elaldi, University of Baskent, Turkey

08:30 - 09:00	A comparative study between blended polymers and copolymers as emitting films for single-layer white OLEDs D. Tselekidou, K. Papadopoulos, V. Kyriazopoulos, K.C. Andrikopoulos, A.K. Andreopoulou, J.K. Kallitsis and M. Gioti	Prof. Maria Gioti , Aristotle University of Thessaloniki, Greece
09:00 - 09:15	The influence of the nano-structured architecture type on the mechanical and tribological properties of TiN coatings I. Borsan , C; Gabor, M-A. Pop, F. Vaz and D. Munteanu	Mrs. Ioana Borsan , Transylvania University, Brasov, Romania
09:15 - 09:30	Dielectric Properties of Ca ₃ Mn ₂ O ₇ thin films prepared by Pulsed Laser Deposition B. Silva , J. Oliveira, T. Rebelo, P. Rocha-Rodrigues, N. Lekshmi, A. Lopes, J. Araújo, L. Francis and B. Almeida	Ms. Bruna Silva , University of Minho, Portugal
09:30 - 09:45	Reactivity at the interface between metals and Bi ₂ Se ₃ topological insulator. M. Fanetti , K. Ferfolja, S. Gardonio and M. Valant	Prof. Mattia Fanetti , University of Nova Gorica, Slovenia
09:45 - 10:00	Preparation of nanostructured LiNbO ₃ containing nickel surface on silicon carrier by rotating disc electrode method G. Dravec and L. Péter	Dr. Gabriella Dravec , Wigner Research Centre for Physics, Hungary
10:00 - 10:15	Low Velocity Impact Behaviour of Composite Laminates Containing TiC and ZrC Nano-Particles in Resin System F. Elaldi and P. Alabay	Prof. Faruk Elaldi , University of Baskent, Turkey
10:15 - 10:30	Kinetically Controlled On-Surface Playground of Nanostructure Growth A. Ahsan , S. F. Mousavi, T. Nijs, S. Nowakowska, O. Popova, A. Wäckerlin, J. Björk, L.H. Gade, T. A. Junga	Ms. Aisha Ahsan , University of Basel, Switzerland

10:30 - 11:00

Morning Coffee Break

Session's Chairs:

Prof. Faruk Elaldi, University of Baskent, Turkey
Prof. Maria Gioti, Aristotle University of Thessaloniki, Greece

11:00 - 11:15	Core-shell nanofibers as coating re-inforcement I. C. Vladu , L. Balc and M. Sinnabell	Mrs. Ioana Carmen Vladu , Centre of Electrochemical Surface Technology (CEST), Austria
11:15 - 11:30	Intelligent coating systems on multimetallic composite structures for automotive production N. Godja , A. Schindel and L. Payrits	Ms. Norica-Carmen Godja , CEST, Austria
11:30 - 11:45	Correlation microstructure-heat treatments-mechanical properties of stainless steel 316L parts obtained by additive manufacturing C. Ifounga , M. Ben Azzouna and B. Lefez	Mr. Claude Lajoie Ifounga , Normandie University, France
11:45 - 12:00	An interaction study of epoxy varnishes with different metal oxides G. Säckl , J. Duchoslav, R. Pugstaller, C. Marchfelder, D. Stifter and G.M. Wallner	Mr. Gary Säckl , Johannes Kepler University Linz, Austria

June 17, 2022

NanoMatEn - Session III. B
Nanotechnology for Energy/ Nanocatalysis (Part II)

Conference Room Derain 1+2

Session's Chairs:

Dr. Martynas Lelis, Lithuanian Energy Institute, Lithuania
Prof. Bassam Alameddine, Gulf University for Science and Technology, Kuwait

08:45 - 09:00	Rational synthesis and catalytic activity of bimetallic Ag/Pt nanoparticles Y. Fan , M. Waals, V. Noel, A. Girard, C. Salzemann and A. Courty	Ms. Yinan Fan , Sorbonne University, France
09:00 - 09:15	First evidence of lignin-pheomelanin nanostructured UVA driven synthesis of Pummerer's ketones by peroxidase mediated oxidative coupling of substituted phenols S. Gabellone , E. Capecchi, D. Piccinino and R. Saladino	Dr. Sofia Gabellone , University of Tuscia, Italy
09:15 - 09:30	Facing structural modifications in WO ₃ nanomaterials for improved light-responsive textiles M. L. Pacheco , T. V. Pinto, C. M. Sousa, A. Guedes, G. Blanco, J. M. Pintado, P. J. Coelho, C. Freire and C. Pereira	Ms. Marlene Pacheco , University of Porto, Portugal
09:30 - 09:45	Indium Phosphide Quantum Dots loaded on Mesoporous silica for Visible-Light Photo-Redox Catalysis K. Bakkouche , F. Ferrari, N. Katir, A. El Kadib, C. Nayral and F. Delpech	Ms. Kaltoum Bakkouche , INSA Toulouse, France
09:45 - 10:00	Design and Characterization of Cu and core-shell Cu@ZnO nanocatalysts S. Hadaoui , A. Naïtabdi and A. Courty	Ms. Sonia Hadaoui , Sorbonne University, France

10:00 - 10:30

Morning Coffee Break

NanoMatEn - Session III.C
Nanotechnology for Environmental Application / Water treatment

Session's Chairs:

Prof. Prakash Mahanwar, Institute of Chemical Technology- Mumbai, India

10:30 - 11:00	Engineering of nanomaterials and membranes interfaces by Atomic Layer deposition: design, properties and applications M. Bechelany	Dr. Mikhael Bechelany , European Institute of Membranes of Montpellier, France
11:00 - 11:15	Fabrication of electrospun nanofibers based membranes and their use for CO ₂ capture I. C. Vladu , L. Balci, R. Wulfsch, E. Hogger and C. Hansmann	Mrs. Ioana Carmen Vladu , Centre of Electrochemical Surface Technology (CEST), Austria
11:15 - 11:30	Design of nanocomposite based on halloysite for water treatment M. Abid , S. Sayegh, I. Latsunsky, E. Coy, G. Lesage, A. Ben Haj Amara and M. Bechelany	Mr. Mahmoud Abid , European Institute of Membranes of Montpellier, France
11:30 - 11:45	Development and characterization of porous calcium copper titanate membranes for water treatment E. Makhoul , F. Tanos, G. Lesage, M. Cretin, M. Boulos, D. Cornu and M. Bechelany	Mrs. Elissa Makhoul , European Institute of Membranes of Montpellier, France
11:45 - 12:00	Reiterative usage of bi-layered nanocrystalline carbon-doped TiO ₂ and Ni particles for the photocatalytic water treatment M. Lelis , M. Urbonavicius, S. Varnagiris, S. Tuckute and E. Demikyte	Dr. Martynas Lelis , Lithuanian Energy Institute, Lithuania
12:00 - 12:15	Conjugated microporous polymers using a copper-catalyzed [4 + 2] cyclobenzannulation reaction: promising materials for iodine and dye adsorption N. Baig, S. Shetty and B. Alameddine	Prof. Bassam Alameddine , Gulf University for Science and Technology, Kuwait

12:15 - 12:30	A comparison of unmodified and sawdust derived-cellulose nano-crystals (CNC) modified polyamide membrane using zeta potential and permeability A. Adeniyi , D. Gonzalez-Ortiz, C. Pochat-Bohatier and M. Onyango	Dr. Amos Adeniyi , Tshwane University of Technology, South Africa
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June 17, 2022

Nanotech / Biotech - Session III. C
Nanotechnology for Drug and Gene Delivery

Conference Room Moreau 1

Session's Chairs:
Prof. Pilar Marco, IQAC-CSIC/CIBER-BBN, Spain
Dr. Isabella Tavernaro, BAM- Berlin, Germany

09:00 - 09:15	2D hybrid MnAl-fluorouracil nanotheranostic construct with controlled morpho-structural properties B. Dragoi , A. Ibanescu, R. Pomohaci, C.M. Uritu, D. Lutic and E. Carasevici	Dr. Brindusa Dragoi , Regional Institute of Oncology, Romania
09:15 - 09:30	Magnetic iron oxide nanoparticles for the delivery of thermal therapy for the treatment of primary aldosteronism A. Sorushanova , P. Donlon, O. Covarrubias, M. O'Halloran, P. Prakash, S. H. Boss-mann and M. C. Denedy	Dr. Anna Sorushanova , National University of Ireland Galway, Ireland
09:30 - 09:45	pH-Responsive PAMAM Dendrimers Encapsulating Peganum harmala Alkaloids and Tannic Acid with Improved Anticancer Activities as Compared to Doxorubicin S. Ashraf Fahmy , A. Sawy and H.M. El-Said Azzazy	Dr. Sherif Ashraf Fahmy , The American University in Cairo, Egypt
09:45 - 10:00	Multifunctional Polymer-Nanoparticle Composite for Wound Care Applications R. Sanguramath	Dr. Rajashekharayya Sanguramath , NSC-Nanosono Corp. Ltd, Israel
10:00 - 10:30	Morning Coffee Break	
10:30 - 10:45	Multifunctional nanogels containing SPIONs and miRNAs for wound healing and skin regeneration applications. The EuroNanoMed project TENTACLES A. Paolini, S.P. Bruno, A. Sobolevs, A. Plotniece, M.K. Chmielewski, L. Le Hégarat, K. Hogeveen, M. Sramkova, L. Balintova, A. Gabelova, A. Caporali, N. Cassinelli, B. Sanz, and A. Masotti	Dr. Andrea Masotti , Children's Hospital Bambino Gesù, Italy
10:45 - 11:00	Synthesis and characterization of novel temperature-responsive bio-gels for microRNA delivery in wound healing applications. The TENTACLES project A. Paolini , S.P. Bruno, A. Sobolevs, A. Plotniece, M.K. Chmielewski, L. Le Hégarat, K. Hogeveen, M. Sramkova, L. Balintova, A. Gabelova, A. Caporali, N. Cassinelli, B. Sanz and A. Masotti	Dr. Alessandro Paolini , Children's Hospital Bambino Gesù, Italy
11:00 - 11:15	Nanostructured semiconductor CuO(1-x)ZnOx nanocomposite with a broad spectrum antibacterial activity and its application in medical devices and acrylic paints A. Franco	Dr. Ariel Franco , NSC-Nanosono Corporation Ltd, Israel
11:15 - 11:30	Assessment of occupational exposure to nanoparticles during the de-velopment of enhanced materials for metal additive manufacturing C. F. Martins , J. Laranjeira, C. Matos, A. R. Alberto, J.J. Rosero-Romo, S. Martin-Iglesias, U. Silvan and D. Salazarb	Dr. Carla Martins , ISQ Institue, Portugal
11:30 - 11:45	Wound dressing based on cellulose sponges incorporated with curcumin-β-cyclodextrin inclusion complex and chitosan K. Kiti and O. Suwantong	Mr. Kitipong Kiti , Mae Fah Luang University, Thailand
11:45 - 12:00	pH-Responsive Dissociable Nanoscale Coordination Polymer for Diagnosis and Treatment of Atherosclerosis Y. Lin , S. Yen Chong, J. Liu, C. Huang, B. Liu, J. C. Yong Kah and J-W. Wang	Mr. Yuanzhe Lin , National University of Singapore, Singapore

Posters Session

Posters are to be displayed through the event platform solution (Whova App).
Discussions are to be done through the system chat features available to the attendees.

N.	Title	Author / Affiliation / Country
1.	Synthesis and Characterization of Phenanthroimidazole Derivatives with Amphiphilic Chains R. Butkute , D. Volyniuk and J.V. Grazulevicius	Dr. Rita Butkutė , Kaunas University of Technology, Lithuania
2.	Production of self-assembled Ag nanoparticles in SiC matrix T. Car , S. Isaković, I. Periša and S. Bernstorff	Dr. Tihomir Car , Ruđer Bošković Institute, Croatia
3.	Application of Cationic CNC and Nafion Membrane in the Electrolysis of Salt Solution G. Joong Kim and Y. Ryeong Oh	Ms. Ye Ryeong Oh , Inha University, Rep. of Korea
4.	Numerical studies of injection moulds for the production of bonded magnets J. Silva , D. Campanhã, J. Fonseca, J. Camarinha, D. Dias, P. Costa and M. Silva	Mr. José Silva , Centre for Nanotechnology and Smart Materials, Portugal
5.	Strain-induced direct to indirect bandgap crossover in monolayer WSe ₂ H-Y. Hwang , I-H. Kim, R.J. Taylor, K S. Kyhm	Dr. Hyeong-Yong Hwang , University of Oxford, UK
6.	Low-temperature amorphous silicon deposition by DC sputtering M. Sun, S. Valdueza-Felip and F. B. Naranjo	Dr. Sirona Valdueza Felip , University of Alcala, Spain
7.	Functionalization of Fiber Bragg Grating Using Different Coating Methods V. Kumar and S. Asokana	Mr. Vajresh Kumar , Indian Institute of Science- Bangalore, India
8.	Effect of Ag Doping on Threshold Switching Characteristics of Amorphous Ga ₂ Te ₃ Film J. Kim , M. Kang, W. Kim and H. Sohn	Mr. Jaeyeon Kim , Yonsei University-Seoul, Rep. of Korea
9.	Exploring Bismuth Plasmonics In The Visible Spectrum D. E. Martínez-Lara , R. González-Campuzano and D. Mendoza	Mr. David Eduardo Martínez Lara , The National Autonomous University of Mexico, Mexico
10.	Applicability of low-cost FPGA boards in custom built Scanning Probe Microscopy electronics M. Valtr and P. Klapetek	Dr. Miroslav Valtr , Czech Metrology Institute, Czech Rep
11.	Investigation of chemical reduction graphene oxide for supercapacitor application. Systematic research T. Chudziak , W. Czepa, D. Pakulski, A. Musiał, C. Valentini, M. Bielejewski, P. Samori and A. Ciesielski	Mr. Tomasz Chudziak , Adam Mickiewicz University, Poland
12.	CNO-induced organization of well-defined star block polymers to obtain mesoporous carbon materials and their application in electrochemistry G. Siemiaszko , A. Hryniewicka, J. Breczko, M. E. Plonska-Brzezinska	Dr. Gabriela Siemiaszko , Medical University of Bialystok, Poland
13.	Synthesis of highly ordered carbonaceous materials with controlled formation of specific pore diameters and their application in electro-chemistry and electrocatalysis J. Breczko , G. Siemiaszko, A. Hryniewicka and M. E. Plonska-Brzezinska	Dr. Joanna Breczko , Medical University of Bialystok, Poland
14.	Combined effect of multiple atomic interactions and structural catalysis on the H release from MgH ₂ in Mg-Ni-rGO system S. Panda , V.V. S. A Marla and S. S. V. Tatiparti	Mr. Srikanta Panda , Indian Institute of Technology Bombay, India
15.	Structural and dielectric properties of CoFe ₂ O ₄ /BaTiO ₃ Bilayers deposited over highly doped Si(001) substrates J. Oliveira , B. Silva, J.A. Mendes and B.G. Almeida	Mr. João Oliveira , University of Minho, Portugal
16.	Strong grain boundary non-radiative recombination peak around the angle (35°) of EBSD disorientation in CdSeTe thin-film Photovoltaics T. Altamimi and B. Mendis	Ms. Taghreed Altamimi , Durham University, UK
17.	Nanostructured metal (Cr, Zr, Co) nitride thin film electrodes sputtered grown for excellent energy storage devices R. Adalati , M. Sharma, A. Kumar, S. Sharma and R. Chandra	Mr. Ravikant Adalati , Indian Institute of Technology Roorkee, India

18.	Ink-Jet Printed TiO ₂ Thin Layers with Embedded Au Nanoparticles as Functional Layers for Perovskite Solar Cells S. Rubtsov , A. Musin, M. Zinigrad and V. Danchuk	Mrs. Sofia Rubtsov , Ariel University, Israel
19.	Development of a measurement method of voids in printed patterns to assess printability C. Hwan Kim	Prof. Chung Hwan Kim , Chungnam National University, Rep. of Korea
20.	Copper Silicide/SnSb Core-Shell Nanowires as a High-Capacity Material for Sodium-Ion Battery Anodes S. O'Sullivan, K.M. Ryan, H. Geaney and T. Kennedy	Dr. Tadhg Kennedy , University of Limerick, Ireland
21.	Enhancing long-term photostability of BiVO ₄ /CdS photoanodes H. Kmentova , R. Yalavarthi, A. Naldoni and S. Kment	Dr. Hana Kmentova , Palacky University- Olomouc, Czech Rep.
22.	Effect of experimentally verified nanofluid electrolytes to improve the electrochemical properties of flow batteries J. Kim and H. Park	Dr. Jungmyung Kim , Changwon National University, Rep. of Korea
23.	Ultrafast laser-based fabrication of Efficient Anti-reflective Silicon Nitride nano/microstructures for Optoelectronics applications P. Malik , S. Ghosh, G.V. Prakash and P. Srivasatava	Ms. Pariksha Malik , Institute of Technology Delhi, India
24.	In-silico design of graphene plasmonic hot-spots L. Bonatti , L. Nicoli, T. Giovannini and C. Cappelli	Mr. Luca Bonatti , Scuola Normale Superiore- Pisa, Italy
25.	CuInS/ZnS Core-Shell Quantum Dots A Green Alternative to Cd and Pb Core-Shell Quantum Dots K.J. Knebel , J.R. Montes-Bojorquez and A. Ayon	Mr. Kevin Knebel , The University of Texas San Antonio, USA
26.	Advancements in white electroluminescent carbon dot- based light emitting diodes O.Ligor , D. Bogosel, E.M. Pavelescu, A. Istrate, F. Nastase, I. Mihalache, E. Vasile, A. Terec and L.M.Veca	Dr Octavian Ligor , National Institute for Microtechnology- Bucharest, Romania
27.	Phenothiazinyl-substituted Bis(trifluoromethyl)biphenyl Compound for Efficient Oxygen Sensing R. Keruckiene , N. Kusas, V. E. Matulis and J. V. Grazulevicius	Dr. Rasa Keruckienė , Kaunas University of Technology, Lithuania
28.	Advanced materials based on azulene-phenyloxazolone A.G. Brotea , C. Musina (Borsaru), O.T. Matica, M. Cristea, E.-M. Ungureanu and A. Stefaniu	Ms. Alina-Giorgiana Brotea , University "Politehnica" of Bucharest, Romania
29.	Synthesis and repetitive application of nanocrystalline ZnO based floating photocatalyst for the detoxification of water from bacteria and viruses mixtures M. Lelis , S. Tuckute, E. Demikyte, D. Vasiliauske, M. Urbonavicius, S. Varnagiris and S. Sakalauskaite	Dr. Martynas Lelis , Lithuanian Energy Institute, Lithuania
30.	Investigation of bi-layered ZnO-Ni photocatalyst powder produced by reactive magnetron sputtering technique M. Lelis , S. Tuckute, E. Demikyte, D. Galalyte, R. Daugelavicius and S. Sakalauskaite	Dr. Martynas Lelis , Lithuanian Energy Institute, Lithuania
31.	Reduced graphene oxide/gold nanoparticles nanocatalyst: Applications for Suzuki reactions in water and oxidative esterifications R. Pocklanova , M.B. Gawande and L. Kvítek	Mrs. Radka Pocklanova , Palacky University- Olomouc, Czech Rep.
32.	Immobilized functionalized silver nanoparticles to detect Cadmium in water. D.Mondal and S.Asokan	Mr. Debojyoti Mondal , Indian Institute of Science- Bangalore, India
33.	The Possibility of Reactive Printing on Inherent Flame Retardant Fabrics V. Lovreškov , M. I. Glogar, T. Kaurin, T. Pušić and N. Kerman	Ms. Veronika Lovreškov , University of Zagreb Faculty of Textile Technology, Croatia
34.	Flame retardant and surface properties of designed aramid fabrics T. Kaurin, T. Pušić, M. I. Glogar, V. Lovreškov, Z. Kovačević and N. Kerman	Ms. Tea Kaurin , University of Zagreb Faculty of Textile Technology, Croatia
35.	Surface properties of polyester fabrics A. Šaravanja , T. Dekanić, T. Pušić, T. Kaurin, K. Grgić and M. Čurlin	Ms. Ana Saravanja , University of Zagreb Faculty of Textile Technology, Croatia
36.	Benefits of low-temperature aging of superelastic NiTi alloy O. Tyc and P. Šittner	Mr. Ondrej Tyc , Institute of Physics of the Czech Academy of Sciences, Czech Rep.

37.	Surface degradation study of historical crown glasses from 15th – 17th century A. Nowicka , E. Greiner-Wrona, B. Hruška, M. Chromčíková and M. Liška	Dr. Aleksandra Nowicka , Alexander Dubček University, Slovakia
38.	Thermomechanical properties of silicate and phosphate glasses M. Chromčíková , B. Hruška, A. Novicka, B. Pecúšová and M. Liška	Mrs. Mária Chromčíková , Alexander Dubček University, Slovakia
39.	The surface layer study of binary glasses. B. Hruška , T. Gavenda, A. Nowicka, M. Chromčíková and M. Liška	Dr. Branislav Hruška , Alexander Dubček University, Slovakia
40.	Zn-rich coatings dried with infrared (IR) radiation I. Stojanović, I. Cindrić , L. Turkalj, I. Juraga, M. Kurtela, V. Šimunović, V. Alar and H. Franjić	Mr. Ivan Cindrić , University of Zagreb, Croatia
41.	Bioactive spray based on green synthesis silver nanoparticles A. Ounkaew and P. Kasemsiri	Ms. Artjima Ounkaew , Khon Kaen University, Thailand
42.	Aspergillus for nanoparticle: Possibilities and challenges of biomediated nanoparticle synthesis of silver nanoparticles J. Walter , I. Aubel and M. Bertau	Mr. Jan Walter , University of Mining and Technology Freiberg, Germany
43.	Peptide Targeted Gold Nanoplatfrom Carrying miR-145 Induce Anti-tumoral Effects in Ovarian Cancer Cells E. Salas-Huenuleo, A. Hernández, L. Lobos-González, I. Polakovicova, F. Morales-Zavala, F. Celis, P. Valenzuela-Bustamante , C. Romero and M. J. Kogan	Ms. Paula Valenzuela Bustamante , Advanced Integrated Technologies, Chile
44.	Brain Drug Delivery of Riluzole by means of Lactoferrin Functionalized Nanostructured Lipid Carriers M. I. Teixeira , C. M. Lopes, M. H. Amaral and P. C. Costa	Ms. Maria Inês Teixeira , University of Porto, Portugal
45.	Innovative biogels delivering miRNAs into skin models. Wound healing applications within the EuroNanoMed project TENTACLES S.P. Bruno , A. Paolini, A. Sobolevs, A. Plotniece, M. K. Chmielewski, L. Le Hégarat, K. Hogeveen, M. Sramkova, L. Balintova, A. Gabelova, A. Caporali, N. Cassinelli, B. Sanz and A. Masotti	Ms. Stefania Paola Bruno , Children's Hospital Bambino Gesù, Italy
46.	Design Optimization of Memantine Loaded Micro/Nanomotor for Alzheimer's Disease G. Tezel, E. Öztürk, S. Seda Timur, R. N. Gürsoy, K. Ulubayram, L. Öner, H. Eroğlu and F. Kuralay	Prof. Hakan Eroglu , Hacettepe University, Turkey
47.	Protein aggregation mechanisms: human H-ferritin self-assembly for constructions of new nanomaterials R. Lucignano and D. Picone	Ms. Rosanna Lucignano , University of Naples Federico II, Italy
48.	Targeting Iron Metabolism in Cancer to Induce Ferroptosis: A Type of Programmed Cell Death R. Beadman , M. Bilbao-Asensio, J. Mareque-Rivas, I.M. Sheldon and J. Cronin	Ms. Rhiannon Beadman , Swansea University, UK
49.	Antibacterial chitosan-graphene nanocomposites N. Wrońska , A. El Kadib and K. Lisowska	Dr. Natalia Wrońska , University of Lodz, Poland
50.	Synthesis of PLGA, PCL and its Nano-Fabrication for the Tissue Engineering Application by using Electrospinning and Melt Pining Technique S.H Bansode and P. A Mahanwar	Ms. Savita H Bansode , Institute of Chemical Technology- Mumbai, India
51.	Recycling of used face mask to white light emitting carbon dots M. Perikala and A. Bhardwaj	Ms. Manasa Perikala , Indian Institute of Science, Bangalore, India
52.	Rapid, accurate detection of COVID-19 utilizing novel isothermal nucleic acid amplification Y. Ju , J. Kim, Y. Park, C. Y. Lee, K. Kim, K. H. Hong and H. G. Park	Mr. Yong Ju , Korea Advanced Institute of Science and Technology, R. of Korea
53.	Titanium Coating on Laser Roughened PEEK for Spinal Implant H-K. Tsou, P-Y. Hsieh and J-L. He	Dr. Ping-Yen Hsieh , Feng Chia University, Taiwan
54.	Lipase-catalyzed acylation of bio-oil enriched with levoglucosan: antibacterial and biosurfactant studies	Mr. Marcelo A. do Nascimento , Centrale Lille Institute, France

	M.A. do Nascimento , R. Froidevaux, R. Wojcieszak, R.O. M. A de Souza and I.I. Junior	
55.	Heterotrophic growth of the red microalga <i>Galdieria Sulphuraria</i> M. van der Hoek , I. Kristijarti, A. van Wijk, and M.J.E.C. van der Maarel	Ms. Mariska van der Hoek , University of Groningen, The Netherlands
56.	Flexible Alternatives To Process Intensification For mAb Purification S; Bola, W.H. Rushton, J-F. Depoisier and J.C. Greenwood	Mr. Jean Francois Depoisier , Bio-Rad Laboratories, France
57.	Bacteria attacking plastic waste E. Noel, S. Amghar, S. Douay, S. Taktek and H. Horchani	Prof. Habib Horchani , Cégep de Rivière-Du-Loup, Quebec, Canada
58.	High level expression and characterization of extracellular lipase Lip7 from <i>Yarrowia lipolytica</i> A. Biegalska, Z. Lazar and T. Janek	Dr. Tomasz Janek , Wrocław University of Environmental and Life Sciences, Poland
59.	Synthesis of Gold Nanoparticles and Field-Resolved Metrology for the Investigation of Localized Surface Plasmons D. Schauer , D. Zimin, J. Bredehoeft and H. Jakob Wörner	Mr. David Schauer , ETH Zurich, Switzerland
60.	Effect of 2D nanomaterials on MXene based engineered Aluminum plasmonic devices for bio-sensing in the near-infrared region S. Shukla , A. Verma, G. Karthiik, A. Sarkar and P. Arora	Ms. Sambhavi Shukla , Birla Institute of Technology and Science Pilani, India
61.	Au nanoparticles coated Au/Ag mirror as SERS active substrate for trace chemical detection V. Awasthi , V. Bhardwaj, R. Goel and S. K. Dubey	Mr. Vimarsh Awasthi , Indian Institute of Technology Delhi, India