



NANOTECH FRANCE 2024 / GAMS 2024 / NANOMATEN 2024 / BIOTECH FRANCE 2024

Joint International Conferences and Exhibition

05 - 07 June 2024

Paris – France

Conferences' Program

Organizer



SETCOR
Conferences & Exhibitions

Nanotech France 2024 / GAMS 2024 / NanoMatEn 2024 / Biotech France 2024
Joint Conferences Program
05 - 07 June 2024, Paris, France

June 05, 2024		
09:00 - 12:00	Onsite Participant registration	
09:30 - 10:30	Morning Coffee Break	
Nanotech France / GAMS/ Biotech France 2024 Joint Plenary session		
Amphithéâtre		
Session's Chairs: Dr. Alba Garzón Manjón, Catalan Institute of Nanoscience and Nanotechnology, Spain Prof. Alexander Mukasyan, University of Notre Dame- Indiana, USA		
10:30 - 11:00	Epitaxial Growth of Silicene : Successes and Challenges. L. Masson	Prof. Laurence Masson, Aix-Marseille University, France
11:00 - 11:30	Micro- and Nanorobots: From single agents to microelectronic morphogenesis. O. G. Schmidt	Prof. Oliver Schmidt, Chemnitz University of Technology, Germany
11:30- 12:00	The sythesis of bio-based nanocomposites by an in-situ processing and consolidation method. R. Tannenbaum	Prof. Rina Tannenbaum, Stony Brook University, USA
12:00 - 14:00 Lunch Break		
Nanotech France / GAMS 2024 Joint Session I.A: Nanomaterials Fabrication / Synthesis / properties		
Amphithéâtre		
Session's Chairs: Prof. Laurence Masson, Aix-Marseille University, France Dr. Alberto Bianco, CNRS/ University of Strasbourg, France Dr. Vinod Paidi, European Synchrotron Radiation Facility- Grenoble, France		
14:00 - 14:30	Solution Combustion Synthesis of Nanomaterials: Recent Advances. A.S. Mukasyan	Prof. Alexander Mukasyan, University of Notre Dame- Indiana, USA
14:30 - 15:00	Novel Cyclodextrin-Based Supramolecular Polymers for Nanomedicine and Environmental Sustainability Applications. J. Li	Prof. Jun Li, National University of Singapore, Singapore
15:00 - 15:15	Synthesis of Ultra-Small Gold Nanostars for Applications in Catalysis, Sensing and Photothermia. E.S. Abu Serea, L.B. Berganza, S. Lanceros-Méndez and J. Reguera	Mrs. Esraa S. Abu Serea Sewlam, Basque Center for Materials, Applications, and Nanostructures, Spain
15:15- 15:30	Preparation and characterization of different type of aligned Cellulose nanofiber. F. Mohtaram and P. Fojan	Ms. Fatemeh Mohtaram, Aalborg University, Denmark
15:30 - 15:45	Synthesis and Self-Assembly of Titania Nanoplatelets and Their Encapsulation in a Polystyrene Shell via Photocatalytic Surface-Grafted Radical Polymerization. J. Struck, B. Sochor and T. Vossmeier	Ms. Jana Struck, University of Hamburg, Germany
15:45 - 16:00	Automated dry synthesis and deposition of nanomaterials. V. Mazzola, T. Pfeiffer and A. van Vugt	Mr. Vincent Mazzola, VS Particle, Delft, The Netherlands
16:00 - 16:30 Afternoon Coffee Break		
Session's Chairs: Prof. Laurence Masson, Aix-Marseille University, France Dr. Alberto Bianco, CNRS/ University of Strasbourg, France Dr. Vinod Paidi, European Synchrotron Radiation Facility- Grenoble, France		

16:30 - 16:45	Highly Magnified Dimer Sputtering and Nanoparticle Generation via Pulsed Magnetron Discharge. P. Curda , R. Hippler, M. Cada, O. Kylián, Z. Hubicka and V. Stranak	Mr. Pavel Curda , University of South Bohemia, Czech Rep.
16:45 - 17:00	Sinter- and Binder-based processing of Mg-alloy AZ41 by MIM (Metal Injection Moulding) reinforced by AlN-nanoparticles. M. Wolff , T. Ebel and R. Willumeit-Römer	Mr. Martin Wolff , Helmholtz-Zentrum Hereon, Germany
17:00 - 17:15	Self-Assembly Approach for the Fabrication of Multi-Level Bio-Inspired Magnetic Nanocomposites. L. R. Klauke , M. Kampferbeck, F. C. Klein, P. Haida, B. Sochor, A. Meyer, V. Abetz and T. Vossmeier	Ms. Lea Klauke , University of Hamburg, Germany
17:15 - 17:30	Unlocking TiO ₂ 's Nanomagnetism: Oxygen Vacancies Lead the Way. V.K. Paidi , B.-H. Lee, A.T. Lee, S. Ismail-Beigi, E. Grishaeva, S. Vasala, P. Glatzel, W. Ko, D. Ahn, T. Hyeon, Y. Kim and K.-S. Lee	Dr. Vinod Paidi , European Synchrotron Radiation Facility- Grenoble, France
17:30 - 17:45	Functionalization of natural zeolite Clinoptilolite with AgNPs via green in situ reduction. F. Gattucci , M. Lallukka, N. Grifasi, M. Piumetti and M.Miola	Ms. Francesca Gattucci , Politecnico di Torino, Italy
17:45 - 18:00	The internal photoluminescence quantum yield and radiative lifetimes of silicon quantum dots. K. Kusova , T. Popelar, P. Galar, F. Matejka and J. Kopenc	Dr. Katerina Kusova , Czech Academy of Sciences- Prague, Czech Rep.
18:00 - 18:15	Tailoring Color Appearance with Tunable Disordered Metafilms. J. Peng , H. Wu, W. Xu, B. Yang and Z. Zhu	Dr. Jialong Peng , National University of Defense Technology, China

June 05, 2024

**Nanotech France 2024 / GAMS 2024 Joint session I. B:
Nanomaterials Characterization and Properties**

Conference Room Derain 1-2

Session's Chairs:

Prof. Julio Sanchez, University of Santiago, Chile
Dr. Henry Cardenas, Louisiana Tech University, USA
Prof. Bonamali Pal, Thapar Institute of Engineering and Technology, India

14:00 - 14:30	Insights into the degradation mechanisms of nanocatalysts through correlative STEM analysis. A. Garzón Manjón	Dr. Alba Garzón Manjón , Catalan Institute of Nanoscience and Nanotechnology, Spain
14:30 - 14:45	A Novel Memristor Design based on Hydrogen Movement on Silicon Surfaces. N. N. Nipu and P. Schubert	Prof. Peter Schubert , Indiana University-Purdue University Indianapolis, USA
14:45 - 15:00	Scalar topological photonic meta-crystals B. Yang	Prof. Biao Yang , National University of Defense Technology, China
15:00 - 15:15	Microstructural Effects of Microballistic Impact on Nacre-Like Graphene-Polyethylene Nanocomposites: Exploring the Influence of Hierarch. P. Punj Singh and R. Ranganathan	Mr. Param Punj Singh , Indian Institute of Technology Gandhinagar, India
15:15 - 15:30	Antibacterial and Photocatalytic Properties of Hydrothermally Synthesized ZnO Nanowires. S. Abou Zeid , A. Perez, S. Rossano and Y. Leprince-Wang	Dr. Souad Abou Zeid , Gustave Eiffel University, France
15:30 - 15:45	Metabolomic Pathways of an Acrylic Resin Enriched with AgNPs as a Proposal for Orthopedic Aparatology. C.A. Lopez-Ayuso , H. Sakagami, M. Sugimoto, R. Garcia-Contreras, R. Manisekaran, M. Figueroa, M. Rangel-Grimaldo and L.S. Acosta-Torres	Mr. Christian A. Lopez-Ayuso , National Autonomous University of Mexico, Mexico
15:45 - 16:00	Nonlinear Optical Properties of Two-Dimensional Materials – A Study on their Suitability for Laser Protection Applications. S. Dengler and M. Henrichsen	Ms. Stefanie Dengler , Fraunhofer IOSB, Germany

16:00 - 16:30

Afternoon Coffee Break

Session's Chairs:

Dr. Stefanie Dengler, Fraunhofer IOSB, Germany
Prof. Julio Sanchez, University of Santiago, Chile
Prof. Bonamali Pal, Thapar Institute of Engineering and Technology, India

16:30 - 16:45	Analytical Prediction of Nanoparticle Traffic Jams during Electrokinetic Treatment of Hardened Concrete. H. Zhong and H. Cardenas	Dr. Henry Cardenas , Louisiana Tech University, USA
16:45 - 17:00	Smaller pattern size increase mechanical performance and improves stress distribution in parts designed using 3D mass reduction method bio-inspired from trabecular form-function relationship. N. Cadoret , J. Chaves-Jacob, M.-A. Celli and J.-M. Linares	Mr. Nicolas Cadoret , Airbus Helicopters/ Aix Marseille University, France
17:00 - 17:15	X-Ray Fluorescence Imaging and Defect Cluster Map Enhancement in Metal Photopolymer Nano-Composite Thin Film. M. Arya , A. Yella, G. Kuma, S.R. Kasture, Ch. Vandana, A. Kumari, B R Sanjeeva Reddy, P.V. Kalluru, S. Madugula and S.P Duttagupta	Dr. Meenakshi Arya , Indian Institute of Technology Bombay, India
17:15 - 17:30	Passive silicon optical isolator based on free carrier dispersion effect. W. Xu , Q. Hong, G. Xia, P. Xu and Z. Zhu	Dr. Wei Xu , National University of Defense Technology, China .
17:30 - 17:45	Opuntia Ficus-indica extraction based anticounterfeiting tag functioning at Optical and Terahertz band. S. K. Sighano , T. Ritacco, M. D. L. Bruno, O. Gennari, W. Fuscaldo, D.C. Zografopoulos, R. Beccherelli, T. Maurer, R. Caputo and A. Ferraro	Ms Sephora Kamwe Sighano , Technology University Troyes, France

17:45 - 18:00	<p>Quantifying Microstructural Evolution in Cyclically Loaded NiTi SMAs: Advancing Fatigue Criterion through Stored Energy Analysis.</p> <p>X. Ju, Z. Mourni and A. Borbely</p>	<p>Dr. Xiaofei Ju, Nanyang Technological University, Singapore</p>
18:00 - 18:15	<p>Exploring the use of GaAsBi alloys as strain-reducing layers in InAs/GaAs QDs.</p> <p>S. Flores, D. F. Reyes, V. Braza, T. Ben, N.J. Bailey, M.R. Carr, R.D. Richards and D. Gonzalez</p>	<p>Mrs. Sara Flores, The University of Cadiz. Spain.</p>

June 05, 2024

Nanotech France / Biotech France 2024 Joint session I.C

Conference Room Dufy

Session's Chairs:

Prof. Rina Tannenbaum, Stony Brook University, USA

Dr. Giorgia Urbinati, CNRS/ Gustave Roussy Cancer Campus, France

14:00 - 14:30	Mechanobiological effects of geometry-mediated wound healing K. Jimmy Hsia and H. Xu	Prof. K Jimmy Hsia, Nanyang Technological University, Singapore
14:30 - 14:45	Development and Characterization of New Chitosan-Based Nano-fibers for Wound Management. L. Profire, O.M. Ionescu, A.T. Iacob, F.G. Lupascu, B.S. Profire, S.E. Giusca and I.D. Caruntu	Prof: Lenuta Profire, "Grigore T. Popa" University of Medicine and Pharmacy from Iasi, Romania
14:45 - 15:00	Reusable lithium-free multilayer MXene based sorbents for portable dialysis cartridges. E. Precetti	Mr. Eliot Precetti, Drexel University, USA
15:00 - 15:15	Synthesis and investigation of properties of conductive nanocomposites for nerve regeneration applications. A. Sierakowska-Byczek, J. Radwan-Pragłowska, Ł. Janus and J. Śmietana	Mrs. Aleksandra Sierakowska-Byczek, Cracow University of Technology, Poland
15:15 - 15:30	Magnesium based bulk metallic glasses for biomedical applications. R. Kumari rajendran, D. Aggarwal, M. Roland, C. Gruescu, R. Shabadi	Mr. Rajesh Kumari Rajendran, University of Lille, France
15:30 - 15:45	Use of an Innovative Material for Biotech Applications in Agriculture. M. Rippa, E. Lahoz, M. Cermola, P. Mormile and V. Battaglia	Dr. Ernesto Lahoz, CREA - Research Centre for Cereal and Industrial Crops, Italy
15:45 - 16:00	Methane conversion into methanol by <i>M. trichosporium</i> OB3b: Investigating the bioprocess limitations and solutions. H. Baldo, A. Ruiz Valencia, L. Cornette de Saint Cyr, E. Petit, J. Sanchez-Marcano, M.P. Belleville, L. Soussan	Ms. Héloïse Baldo, Univ. Montpellier, France
16:00 - 16:30	Afternoon Coffee Break	
16:00 - 16:15	Phenolic content of orange sweet potato flour influenced by ultrasound pretreatment, cold storage, and drying technologies. A. Gomez-Cisneros, M. Calderon-Oliver, L. Santos-Zea and A. Escalante-Alburto	Ms. Analaura Gómez-Cisneros, Tecnológico de Monterrey, Mexico
16:15 - 16:30	Unraveling the Disaggregating Potential of Natural C20 Carotenoids on A β ₁₋₄₂ and Tau Fibers. S. Z. Bathaie	Prof S. Zahra Bathaie, Tarbiat Modares University, Iran

June 06, 2024

Nanotech France/ GAMS/ Biotech France 2024 Joint Plenary session II

Amphithéâtre

Session's Chairs:

Prof. Elisabetta Esposito, University of Ferrara, Italy
Prof. Rina Tannenbaum, Stony Brook University, USA
Prof. Eliana Leo, University of Modena and Reggio Emilia, Italy

09:00 - 09:30	Materials for Eco-Design Strategies for an Innovative Industry. R. Martins , S. Nandy, P. Barquinha, L. Pereira, T. Pinheiro, H. Almeida, R. Igreja, E. Carlos and E. Fortunato	Prof. Rodrigo Ferrão de Paiva Martins , Nova Univ. of Lisbon, Portugal
09:30 - 10:00	Applications of direct-write nanoscale materials in Nanotechnology. J.M. De Teresa Nogueras	Prof. José María De Teresa Nogueras , CSIC-University of Zaragoza, Spain
10:00 - 10:30	The Toxicology of Inhaled Particles and Examples of Risk Assessment and Regulation. U. B. Vogel	Prof. Ulla Birgitte Vogel , Technical University of Denmark, Denmark
10:30 - 11:00	Morning Coffee Break	
11:00 - 11:30	Lung fate and biotransformation of exfoliated MoS ₂ . A. Bianco	Dr. Alberto Bianco , CNRS/ University of Strasbourg, France
11:30 - 12:00	Blood-brain barrier-on-a-chip as a suitable platform to evaluate gold nanoparticles against Alzheimer's disease. A. Tapia-Arellano , S. Palma-Florez, P. Cabrera, E. Cortés-Adasme, K. Bolaños, R. Aldunate, N. Hasan, M. J. Kogan, J. Samitier , A. Lagunas and M. Mir	Dr. Andreas Tapia Arellano , Institute for Bioengineering of Catalonia- Barcelona, Spain
12:00 - 12:30	Exploiting New Strategies to Deliver an Old Drug. B. Stella	Dr. Barbara Stella , University of Turin, Italy
12:00 - 14:00	Lunch Break	

Group Photo at 13:45

NanoMatEn / GAMS Joint Session II.B:

Materials and Nanomaterials for Energy / Nanoelectronics/ Nanophotonics

Amphithéâtre

Session's Chairs:

Prof. Rodrigo Ferrão de Paiva Martins, Nova University of Lisbon, Portugal
Dr. Raul Arenal, University of Zaragoza, Spain

14:00 - 14:15	From Lab to Pilot: VTT's Advances in Sustainable Cellulose Film and Coating Technologies. V. Kumar, V. Kunnari, H. Ahadian , A. Khakalo, A. Jaiswal, P. Ahokas, A. Sonker, A. Yamamoto	Mr. Hamidreza Ahadian , VTT Technical Research Centre, Finland
14:15 - 14:30	An innovative strategy to fabricate wrinkled silver-based nanoporous material combining plasma-based technique and dealloying process. R. Dantinne , A. Chauvin, S. Asaram Raut, P. Leclere, C. Poleunis, A. Delcorte, R. Snyders and D. Thiry	Mr. Robin Dantinne , University of Mons, Belgium
14:30 - 14:45	Development of Fluorine-Free Superhydrophobic Surfaces combining Plasma Polymerization and the wrinkling approach. S. Asaram Raut , R. Dantinne, R. Snyders and D. Thiry	Dr. Suyog Asaram Raut , University of Mons, Belgium
14:45 - 15:00	Unraveling the Potential of Non-Thermal Plasma in the Synthesis and Surface Tailoring of Silicon Nanoparticles. F. Matejka , J. Kopenec, P. Galar, T. Popelar and K. Kusova	Mr. Filip Matejka , University of Chemistry and Technology- Prague, Czech Rep.
15:00 - 15:15	Sequenced plasma electrolytic oxidation of aluminium alloys: a tool to control the coating porosity. L. Magniez , S. Fontana, J. Martin, C. Hérold and G. Henrion	Mr. Lucas Magniez , University of Lorraine - CNRS, France

15:15 - 15:30	Investigation the effect of applied voltage on the modification of surface roughness of materials after plasma electrolytic polishing. N. Truong Son , L. Magniez, J. Martin, G. Henrion and F. Girard	Dr. Nguyen Truong Son , University of Lorraine- CNRS, France
15:30 - 15:45	Aerosol Assisted Chemical Vapor Deposition of Copper Sulfide films with sensitivity to NO ₂ . H. Trabelsi , I. Gràcia, K. Alouani and S. Vallejos	Mrs. Houyem Trabelsi , Institute of Microelectronics of Barcelona (IMB-CNM, CSIC), Spain
15:45 - 16:00	Modulation of Spin and Charge Currents Through Functionalized 2D Diamond and Few-layer Boron Nitride Devices. E. E. de Moraes, A. A. Pinto, R. J. C. Batista, A. B. de Oliveira and H. Chacham	Prof. Helio Chacham , Federal University of Bahia, Brazil
16:00 - 16:30 Coffee Break		
Session's Chairs: Prof. Fu-Ming Wang, National Taiwan University of Science and Technology, Taiwan Dr. Suyog Asaram Raut, University of Mons, Belgium		
16:30 - 17:00	1D Nanomaterials – Detailed Nanoscopic Investigations. R. Arenal	Dr. Raul Arenal , University of Zaragoza, Spain
17:00 - 17:15	Biopolymeric Nanofibers Functionalized with Quiral Cyclodipeptides for Energy Harvesting. D. Santos , R. Baptista, E. de Matos Gomes and B. Almeida	Ms. Daniela Santos , University of Minho, Portugal
17:15 - 17:30	Enhanced performance of Li-ion battery electrodes protected by atomic layer deposited oxide films. K. Frohlich , P. Sahoo, A. Güneren and B. Hudec	Dr. Karol Frohlich , Slovak Academy of Sciences, Slovakia
17:30 - 17:45	Unveiling the Potential of Textile Beeswax Triboelectric Nanogenerators for Sustainable Energy Processing. E. Kovalska , H. T. Lam, Z. Saadi, R. Mastria, A.I.S. Neves, S. Russo and M.F. Craciun	Dr. Ievgeniia Kovalska , University of Exeter, UK
17:45 - 18:00	Stability of inorganic perovskites nanocrystals: what is at the end of the tunnel?. P.K. Mubiayi	Dr. Pierre Kalenga Mubiayi , University of Witwatersrand, S. Africa
18:00 - 18:15	Toward Flexible Piezoelectric III-Nitride Nanowire-based Nanogenerators. N. Buatip , P. John, T. Auzelle, F. Donatini, S. Le Denmat, B. Fernandez, M. Saluan and R. Songmuang	Dr. Natthawadi Buatip , Grenoble Alpes University- CNRS, France
18:15 - 18:30	Are fractals useful for supercapacitor applications? – A case of Fe ₂ O ₃ negative electrodes. R. Jaiswal, G. Chaturvedi, V. Sharma, S. A. Ilangoan, S. Sujatha, K.S. Ajeesh and S. Sarma V. Tatiparti	Prof. Sankara Sarma V. Tatiparti , Indian Institute of Technology Bombay, India

Conference Dinner : 19:30 – Verrière

June 06, 2024

**Nanotech France / GAMS / Biotech France 2024 Joint Session II.C:
Nano for life science and Medicine**

Conference Room Derain 1-2

Session's Chairs:

Prof. Ulla Birgitte Vogel, Technical University of Denmark, Denmark

Prof. K Jimmy Hsia, Nanyang Technological University, Singapore

Dr. Andreas Tapia Arellano, Institute for Bioengineering of Catalonia- Barcelona, Spain

14:00 - 14:30	Plasmonics Nanosensors and Nanoprobes: A New Generation of Nanoplatforms for Diagnostics and Treatment of Cancer. T. Vo-Dinh	Prof. Tuan Vo-Dinh, Duke University, USA
14:30 - 15:00	Nanovesicles as Tools to Protect the Skin against Environmental Stressors. E. Esposito, M. Sguizzato, F. Ferrara, A. Bondi, W. Pula, M. Benedusi, L. Calderan, M.G. Ortore, M. Malatesta and G. Valacchi	Prof. Elisabetta Esposito, University of Ferrara, Italy
15:00 - 15:30	Nanoencapsulation: From 1D van der Waals Heterostructures to Cancer Therapy. G. Tobías-Rossell	Dr. Gerard Tobías-Rossell, Institut de Ciència de Materials de Barcelona (ICMAB-CSIC), Spain
15:30 -15:45	Graphene functionalization towards biodegradability. S. Rahimi, M. Bahmani and I. Mijakovic	Dr. Shadi Rahimi, Chalmers University of Technology, Sweden
15:45 -16:00	Quantification and characterization of manufactured nanomaterials shed from non-medical face mask. R. Mehri, Z. Gajdosechova, T.A. Sipkens, J.C. Corbin, A. Belknap, D. Vladisavljevic and G.J. Smallwood	Mr. Andrew Belknap, Health Canada- Ottawa, Canada

16:00 - 16:30

Afternoon Coffee Break

Session's Chairs:

Prof. Ulla Birgitte Vogel, Technical University of Denmark, Denmark

Dr. Andreas Tapia Arellano, Institute for Bioengineering of Catalonia- Barcelona, Spain

16:30 - 17:00	Is the future of antioxidants mineral? Nanozymes and other nanotechnology solutions. V. Puentes	Prof. Victor Puentes, Catalan Institute of Nanoscience and Nanotechnology, Spain
17:00 - 17:15	Investigating hybrid lipid-PLGA nanoparticles loaded with an endogenous endocannabinoid-like molecule for targeting inflamed muscle. E. Leo, S. Molinari, E. Maretti and C. Rustichelli	Prof. Eliana Leo, University of Modena and Reggio Emilia, Italy
17:15 - 17:30	Pathogen-associated molecular pattern-coated inorganic nanocarriers: a biomimetic approach for subunit vaccines. L. M. López-Marín, C. Valdemar, A. Cuán, R. Nava and R. Avila	Dr. Luz M. Lopez-Marín, National Autonomous University of Mexico, Mexico
17:30 - 17:45	Reprogramming Tumor-Associated Macrophages: Utilizing mU-NO-Conjugated Gold Nanoparticles in Combination with X-ray Irradiation. Z. Kayani, S; Iyer and A-C. Heuskin	Dr. Zahra Kayani, University of Namur, Belgium
17:45 - 18:00	Development of hybrid nanomaterials based on AuNR@MOF/CCMoid to improve the detection of metal ions by fluorescence emission. C. Araneda, N. Parra, P. Cabrera, M. J. Kogan and M. Soler	Mrs. Catherine Araneda, University of Chile, Chile.
18:00 - 18:15	Development of zeolite-based voltammetric sensor for determination of antipsychotic drug quetiapine. M. Madej, A. Cader, P. Bandyk, M. Tomaszewska, K. Fendrych, J. Kochana and B. Baś	Dr. Maria Madej, Jagiellonian University, Poland

Conference Dinner : 19:30 – Verrière

June 07, 2024

NanoMatEn - Session III
Nanotechnology for Environmental Application / Water treatment

Session's Chairs:
Prof. Marco Piumetti, Politecnico di Torino, Italy
Prof. Victor Puntès, Catalan Institute of Nanoscience and Nanotechnology, Spain
Dr. Vinod Paidi, European Synchrotron Radiation Facility- Grenoble, France

Conference Room Derain 1-2

09:00 - 09:30	Sustainable Technologies for Environment. M. Piumetti	Prof. Marco Piumetti, Politecnico di Torino, Italy
09:30 - 10:00	Graphene oxide and noble metal loaded Ca/Ba/SrTiO ₃ hybrid photocatalysts for environmental remediation. B. Pal and M. Passi	Prof. Bonamali Pal, Thapar Institute of Engineering and Technology, India
10:00 - 10:30	Morning Coffee Break	
10:30 - 11:00	Low-Temperature Recovery of Deteriorated Ni-Rich Cathode Material Surfaces: LiNiO ₂ and LiNi _{0.8} Mn _{0.1} Co _{0.1} O ₂ Examples. F-M. Wang	Prof. Fu-Ming Wang, National Taiwan University of Science and Technology, Taiwan
11:00 - 11:15	Nature of Al-Mg electrodeposition using chloride-based molten salt electrolyte system. S. Bhaskaramohan, M. J. N. V. Prasad, G. V. D. Jonnalagadda, K. Gourishankar, S. Swaminathan, F. Ebrahimi and S. S. V. Tatiparti	Ms. Sreesvarna Bhaskaramohan, Indian Institute of Technology Bombay, India
11:15 - 11:30	Bio-nanomaterials of polymers and fibrillated nanocellulose: preparation, characterization and removal of emerging pollutants from water. J. Sanchez, E. Oyarce, K. Roa, A. Boulett and G. Pizarro	Prof. Julio Sánchez, Pontifical Catholic University of Chile, Santiago, Chile
11:30 - 11:45	Investigation of PANI-NSA/NiFe ₂ O ₄ Nanocomposite for Efficient Removal of Metal Pollutants from An Aqueous Solution. RN. Kasavo and HG. Brink	Ms. Ruth Kasavo, University of Pretoria, S. Africa
11:45 - 12:00	Immobilization of laccase on metal-chitosan nanocomposite and its application in pollutant remediation. H.D. Kyomuhimbo, E. M. N. Chirwa, U. Feleni and H. G. Brink	Ms. Hilda Dinah Kyomuhimbo, University of Pretoria, S. Africa
12:00 - 12:15	Highly Sustainable Polyethylene oxide/sodium alginate-based Electrospun Nanofibrous Superabsorbent Mats as Controlled-release Fertilizer Systems. P. Chauhan and B. Kumar Satapathy	Dr. Pooja Chauhan, Indian Institute of Technology- Delhi, India
12:15 - 12:30	Fluidized bed chemical reactor model for production of syngas in thermo-chemical looping of Ceria. W. Jaroszuk and J. Milewski	Prof. Jaroslaw Milewski, Warsaw University of Technology, Poland

Posters Sessions

June 05 and 06, 2024

N.	Title	Author / Affiliation / Country
1.	Low temperature synthesis of crystalline GaN from a mixture of Li and Ga under N ₂ atmosphere. Y. Song	Prof. Youting Song , Institute of Physics, Chinese Academy of Sciences, China
2.	Green Route to Copper Nanoparticles on Natural Zeolite Clinoptilolite: Synthesis and Characterization. M. Lallukka , F. Gattucci, M. Piumetti and M. Miola	Ms. Mari Lallukka , Politecnico di Torino,, Italy
3.	Control on the formation of colloidal crystals of uniform populations of cubic maghemite nanoparticles with tunable size and surface chemistry A. Shahmanesh , A. Ngo and I. Liseiecki	Dr. Ashkan Shahmanesh , Sorbonne University, France
4.	Production of biopolymers from pumpkin shell waste and its effect on filtration and rheological properties of water-based drilling mud- to-ward sustainable drilling. F. Faraji , S. Baloochzadeh and M. Abdulqadir	Dr. Foad Faraji , Teesside University, UK
5.	Preparation of high-porosity thin metal films using high-angle ion sputtering and high-fluence high-energy ion bombardment. G. Ceccio , J. Vacik, V. Lavrentiev, R. Miksova and P. Pleskunov	Dr. Giovanni Ceccio , Nuclear Physics Institute of Czech Academy of Science, Czech Rep.
6.	Reversible thermal conductivity switching of Mg-based thin films controlled by hydro-/dehydrogenation reactions. T. Yagi , H. Yagi, K. Sugimoto, K. Nakano, Y. Yamashita, T. Shiga, M. Kashiwagi, S. Takeya, Y. Oguchi, F. Iesari, T. Okajima, N. Taketoshi and Y. Shigesato	Dr. Takashi Yagi , National Institute of Advanced Industrial Science and Technology, Japan
7.	Improvement of Photosensor Properties of ZnO Films by Using the Features of Nanostructured State. S. Dukarov, S. Petrusenko, K. Adach, M. Fijalkowski , A Fedonenko and V. Sukhov	Dr. Mateusz Fijalkowski , Technical University of Liberec, Czech Rep.
8.	Ti/TiSi/TiSiN/TiSiCN protective multilayered structures used for industrial woodworking applications obtained by cathodic arc evaporation. L. R. Constantin , A. C.Parau, M. Dinu, I. Pana, C. Vitelaru, D.M. Vranceanu and A. Vladescu	Dr. Lidia R. Constantin , National Institute of Research and Development for Optoelectronics - INOE 2000, Romania
9.	Radial lower chuck design using metamaterials and prediction of sur-face roughness in PBF. K. W. Kim , J. W. Lee, S. H. Park, S. Y. Lee, S. Y. Gu, D. H. Kim and J. H. Sung	Dr. Kunwoo Kim , Korea Institute of Industrial Technology- Daegu, Rep. of Korea
10.	New route to synthesis nanomaterial of lead sulfide (galena) films from bis(alkylxanthato) lead(II) precursors. Y.T Alharbi and D. Lewis	Dr. Yasser Alharbi , Yanbu Industrial College, Saudi Arabia
11.	Electrospun Polycaprolactone Nanofibers: Influence of Fiber Diame-ter on Bacterial Biofilm Formation and Bacterial Cell Retention. S. Lencova , M. Stindlova, V. Peroutka, V. Jencova, K. Havlickova, D. Lukas and K. Demnerova	Dr. Simona Lencova , University of Chemistry and Technology- Prague, Czech Rep.
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