SICT 2024, PLASMA TECH 2024 AND TRIBOLOGY 2024

JOINT INTERNATIONAL CONFERENCES

17 - 19 APRIL 2024, VIENNA - AUSTRIA

Conferences' Program

Organizer

SETCOR
Conferences & Exhibitions

SICT 2024 / Plasma Tech 2024 / Tribology 2024 Joint Conferences Program

17 – 19 April 2024 | Vienna, Austria

17 April 2024		
09:00 - 12:00	**Participants registration**	
09:30 - 10:30	**Welcoming Coffee**	
SICT 2024 / Plasma Tech 2024 / Tribology 2024 Joint Plenary Session		
Conference Room: Salon Schönbrunn		
Session's Chairs: **Prof. Holger Kersten, University Kiel, Germany** **Prof. Miran Mozetic, Jozef Stefan Institute, Slovenia**		
10:30 - 11:00	Plasma Chemical Surface Engineering **D. Hegemann** and P. Navascués	**Prof. Dirk Hegemann**, Swiss Federal Laboratories for Materials Science and Technology, **Switzerland**
11:00 - 11:30	Diagnostic of plasma processes for electric space propulsion **H. Kersten**, T. Trottenberg, V. Schneider, A. Spethmann, R. Wimmer-Schweingruber	**Prof. Holger Kersten**, University Kiel, **Germany**
11:30 - 12:00	Introduction of Anodic Oxide Film Formation Technology of Light Metals **S. Moon**	**Prof. Sungmo Moon**,Korea Institute of Materials Science & University of Science & Technology, **Rep. of Korea**
12:00 - 14:00	**Lunch Break – Restaurant**	
SICT 2024 Session I. A: **Surface treatments and coatings deposition and functionalization / Characterization / Properties** **Multifunctional composite and hybrid coatings**		
Conference Room: Salon Schönbrunn 2 / 3		
Session's Chairs: **Prof. Stanko Brankovic, University of Houston, USA** **Prof. Sungmo Moon,Korea Institute of Materials Science, Rep. of Korea** **Prof. Giovanna Trevisi, CNR, Italy**		
14:00 - 14:30	Structural Modification of Electrodeposited Cu 3D Structures for the Enhancement of CO2 Cathodic Reduction B. Serapiniene, A. Selskis, L. Gudaviciute, J. Juodkazyte and **R. Ramanauskas**	**Prof. Rimantas Ramanauskas**, Center for Physical Sciences and Technology, **Lithuania**
14:30 - 14:45	Novel Industrial Sputtering Technology with Enhanced Flux Fraction of Deposited Material **J. Klusoň**, M. Učík, M. Jílek, J. Hnilica, P. Klein, P. Vašina, H. Bolvardi and A. Lümkemann	**Dr.Jan Kluson**, PLATIT a.s., **Czech Rep.**
14:45 - 15:00	Chemical vapour deposited SiOxNyCz thin Films for Advanced Barrier Solutions: Probing Chemical and Mechanical properties for better Performance **F. Inoubli**, B. Diallo, K. C. Topka, T. Sauvage, R. Laloo, B. Caussat, V. Turq and N. Pellerin	**Ms. Farah Inoubli**, University of Orleans, **France**
15:00 - 15:15	The impact of growth conditions on the crystalline quality and surface morphology of epitaxial III-N thin films: A molecular dynamics study **A. Zaiter**, V. Hounkpati, G. Clavier, P. Ruterana and J. Chen	**Mr. Ayla Zaiter**, Caen Normandie University, **France**
15:15 - 15:30	Chitosan Functionalized Hexagonal Boron Nitride Nano sheets as Reinforcements for the Improvement of Anticorrosive Epoxy Coatings on AA2024 Al Alloy in Saline Medium **A.Madhan Kumar**	**Dr. Madhan Kumar Arumugam**, King Fahd University of Petroleum & Minerals, **Saudi Arabia**
15:30 - 15:45	Enthalpy-driven self-healing in thin metallic films on flexible sub-strates	**Dr. Claus Trost,** Erich Schmid Institute of Materials

	C.O.W. Trost, P. Kreiml, T. Jörg, V. Terziyska, C. Mitterer, M. J. Cordill and A. Lassnig	Science of the Austrian Academy of Sciences, **Austria**
15:45 - 16:00	Comparison of nitriding behaviour for austenitic and duplex stainless steel with precipitation hardening steel D. Manova and **S. Mändl**	**Dr. Stephan Mändl**, Leibniz Institute of Surface Engineering, **Germany**
16:00 - 16:30	**Coffee Break / Posters Session**	
16:30 - 16:45	Challenges on Surface Oxidation of Steel – Alloying Elements and Scale Behavior **K. Anand**, A. Koltsov, L. Turri, J. Scheid, P. Alexandre	**Dr. Kanika Anand**, ArcelorMittal R&D Maizieres, **France**
16:45 - 17:00	Influence of current density and process time on structural, chemical and physical behaviour of anodized aluminum **L. Breu**, M. Bubrin and T. Sörgel	**Ms. Lea Breu**, Robert Bosch Manufacturing Solutions GmbH, **Germany**
17:00 - 17:15	Adhesion improvements of paint on polypropylene copolymers by flame and UV-ozone surface treatments **M. Borg**, Y. Tison, K. Lavisse and C. Derail	**Ms. Marine Borg**, Renault Group, **France**
17:15 - 17:30	Transparent PDMS Surfaces with Covalently Attached Lubricants for Enhanced Anti-Adhesion Performance **T. Eder**, A. Mautner, Y. Xu, M. Reithofer, A. Bismarck and J.M. Chin	**Ms. Tanja Eder**, University of Vienna, **Austria**
17:30 - 17:45	Investigation of Thermal and Mechanical Properties of Ti-Si-B-C Nanocomposite Coatings **A. Thewes**, P.M. Reinder, H. Paschke, T. Brückner, C. Sternemann, M. Paulus, W. Tillmann, J. Urbanczyk and N.F. Lopas Dias	**Mr. Alexander Thewes**, TU Braunschweig, **Germany**
17:45 - 18:00	Core/shell Ge/Al quantum dot lattices in amorphous SiC: structure and photo-conversion properties **M. Tkalcevic**, I. Periša, M. Bubaš, S. Bernstorff, G. Provatas and M. Mičetić	**Dr. Marija Tkalcevic**, Ruđer Bošković Institute, **Croatia**

17 April 2024		
Plasma Tech Session I. B: **Plasma fundamentals / Modelling / Atomic and Molecular Processes**		
Conference Room: Salon Bristol		
Session's Chairs: **Prof. Dirk Hegemann, Swiss Federal Laboratories for Materials Science and Technology, Switzerland** **Prof. Holger Kersten, University Kiel, Germany**		
14:00 - 14:30	Plasma devices for satellite propulsion **J. Schein**	**Prof. Jochen Schein,** University of Federal Armed Forces Munich, **Germany**
14:30 - 14:45	Langmuir probe measurements in a dual-frequency capacitively coupled rf discharge **V. Schneider**, J. Schleitzer, I. Korolov G. Hübner, P.Hartmann, J. Schulze and H. Kersten	**Dr. Viktor Schneider**, University Kiel, **Germany**
14:45 - 15:00	Optically trapped microparticles in a dual-frequency capacitively coupled rf discharge **J. Schleitzer**, V. Schneider and H. Kersten	**Ms. Jessica Schleitzer**, University Kiel, **Germany**
15:00 - 15:15	A novel test-facility based on X-ray imaging and mm-wave polarimetry for plasma diagnostics **E. Naselli**, G. Finocchiaro, G.S. Mauro, B. Mishra, B. Peri, A. Pidatella, G. Torrisi and D. Mascali	**Dr. Eugenia Naselli**, National Institute for Nuclear Physics-Laboratori Nazionali del Sud (INFN-LNS), **Italy**
15:15 - 15:30	Plasma Generation and Expansion in the Vacuum Arc Remelting (VAR) process **E. Karimi-Sibaki**, A. Kharicha and C.-Doppler	**Dr. Ebrahim Karimi Sibaki**, Montanuniversitaet of Leoben, **Austria**
15:30 - 15:45	Simulation of an ion beam extraction from an ICP by using a self-consistent plasma sheath model. **K. M. Rettig**, T. Dunger, E. Loos, M. Nestler and J. Schuster	**Mr. Kevin Michael Rettig**, scia Systems GmbH, **Germany**
15:45 - 16:00	Application of high power ns-pulsed plasma for methane reforming M. Gromov, Georgios D. Stefanidis, R. Morent and **A. Nikiforov**	**Dr. Anton Nikiforov**, Ghent University, **Belgium**
16:00 - 16:30	**Coffee Break / Posters Session**	
Session's Chairs: **Prof. Jochen Schein, University of Federal Armed Forces Munich, Germany** **Prof. Lado Filipovic, TU Wien, Austria**		
16:30 - 16:45	On the role of reaction mechanisms during the plasma-assisted dry reforming of methane **M. Oliva-Ramírez**, P. Navascués, J. Cotrino, A. R. González-Elipe and A. Gómez-Ramírez	**Dr. Manuel Oliva**, University of Seville, **Spain**
16:45 - 17:00	Silicon Carbide for neutron diagnostic in plasma **S. De Luca**, C. Altana, S. Amaducci, L. Cosentino and S. Tudisco	**Dr. Saverio De Luca**, INFN-LNS, **Italy**
17:00 - 17:15	A New Generation of Microreactor for Gas/Liquid Plasma Chemical Processes : Study of Segmented Flow under Plasma **P. Dedieu**, G. Morand, S. Ognier and M. Tatoulian	**Mr. Pierre Dedieu**, Institut de Recherche de Chimie de Paris, PSL, **France**
17:15 - 17:30	Plasma-catalytic hybrid process for CO_2 valorization into liquid fuels **N. Merino**, S. Ognier, X. Duten, M. Mikhail and M. Tatoulian	**Mrs. Noelia Merino**, Institut de Recherche de Chimie Paris – ENERGO, **France**
17:30 - 17:45	Degradation of organic pollutants in water through plasma - catalysis process D. Tsokanas, O. Dolinski, S. Meropoulis and **C. Aggelopoulos**	**Dr. Christos Aggelopoulos**, Foundation for Research and Technology Hellas, **Greece**
17:45 - 18:00	Electron emission Electron Emission Yield of Cu, and Au: Effects of Electron Irradiation and Argon Etching **M. Belhaj** and S. Dadouch	**Dr. Mohamed Belhaj**, ONERA, University of Toulouse, **France**
18:00 - 18:15	Plasma surface treatment of aluminium sheets **P. I.Kovács**, M. Berczeli and Z. Weltsch	**Mr. Péter Kovács**, John von Neumann University, **Hungary**

17 April 2024		
SICT 2024 / Tribology 2024 Joint Session I. C: Surface Engineering, Coatings and Tribology		
Conference Room: Salon Schönbrunn 1		
Session's Chairs: Prof. Auezhan Amanov, Tampere University, Finland Prof. Yonggang Meng, Tsinghua University, China Prof. Rafal Reizer, University of Rzeszow, Poland		
14:00 - 14:30	The Astonishing Diversity in the World of 2D Materials - Lessons learned from MXenes and Transition Metal Carbo Chalcogenides (TMCCs) for Solid Lubrication **C. Gachot**	**Prof. Carsten Gachot,** Vienna University of Technology, **Austria**
14:30 - 14:45	The effect of ZrO2 nanoparticles reinforcement and heat treatment on tribological properties of electroless Ni-P coatings with high P content **E. Baroni**, G. Pedrizzetti, G. Pulci, F. Marra and M. Merlin	**Mr. Enrico Baroni**, University of Ferrara, **Italy**
14:45 - 15:00	A Comparative Study on the Effect of Roughness Parameters on the Adhesion and Tribological Properties of PEEK Coatings Deposited on Mild Steel Substrates **A.A. Seenath** and A.S. Mohammed	**Mr. Amal Ameen Seenath**, King Fahd University of Petroleum & Minerals, **Saudi Arabia**
15:00 - 15:15	A study of Ti-doped DLC coating applicable to gears for chassis parts to reduce friction and improve durability **H.S. Shin** and Y.K. Kim	**Mr. Heesup Shin**, Hyundai Motor Company, **Rep. of Korea**
15:15 - 15:30	Experimental study and modeling of tribo-chemical processes in transfer layer during friction in W-C:H coatings in various environments **F. Lofaj**, R. Bureš, M. Kabátová, H. Tanaka and Y. Sawae	**Dr. Frantisek Lofaj**, Institute of Materials Research of SAS, **Slovakia**
15:30 - 15:45	Residual stress development and thermo-elasto-plastic deformation in brake discs **Y. Kim** and M-G. Lee	**Mr. Youngjae Kim**, Hyundai Motor Company, **Rep. of Korea**
15:45 - 16:00	Influence of Coating on the Wear Performance of Wood Cutting Tools V.M. Nanshie, A. Aidibe, M. Heidari and **M. Jahazi**	**Prof. Mohammad Jahazi,** École de technologie supérieure (ÉTS), **Canada**
16:00 - 16:30	**Coffee Break / Posters Session**	
16:30 - 16:45	Compositionally modulated Ni-W multilayers to alleviate the residual stresses in coatings for superior wear resistance **N.P. Wasekar**, L. Bathini and MJNV Prasad	**Dr. Nitin Wasekar**, International Advanced Research Centre for Powder Metallurgy and New Materials, **India.**
16:45 - 17:00	Tailored Coatings for Enhanced Long-Term Tribological Performance of Journal Bearings in Accelerator-Driven Nuclear Reactors **E.Serag**, B. Caers, E. Haye, P. Schuurmans and S. Lucas	**Mr. Essam Serag**, University of Namur, **Belgium**

18 April 2024		
SICT 2024 Session II. A: **Surface and coatings Characterization / Properties** **Multifunctional composite and hybrid coatings**		
Conference Room: Salon Schönbrunn 2 / 3		
Session's Chairs: **Prof. Alberto Brambilla, Politecnico di Milano, Italy** **Prof. Stanko Brankovic, University of Houston, USA**		
09:00 - 09:30	Exploiting the natural instability in thin and flexible dielectric solid films for sensing and photonic applications **M. Bollani**	**Dr. Monica Bollani**, Photonic and Nanotechnology Institute, **Italy**
09:30 - 09:45	Role of Critical Coupling in planar optical nanodevices **E. Popov**	**Prof. Evgeni Popov**, Aix Marseille University, **France**
09:45 - 10:00	Optimization of Surface Reactivity of Diamond Particles by Atomic Layer Deposition of Alumina Coating **K. Shibuta**, H. Ishida, M. Groner andJ. Gauspohl	**Mr. Kaoru Shibuta**, SEKISUI CHEMICAL CO., LTD., **Japan**
10:00 - 10:15	Effect of Particles Dispersion Degree on Microstructure of Composite Plating for Ni-Magetite **T. Mori**, W. Murata, K. Nakamura, K. Kitamura, Y. Tanaka, K Fukui, A. Fujita and M. Takagi	**Prof. Takamasa Mori**, Hosei University, **Japan**
10:15 - 10:30	Effect of thermal treatment with different temperature-duration schedules on mechanical and corrosion properties of Ni-P nanocomposite coatings reinforced with ZrO2 particles **G. Pedrizzetti**, E. Baroni, M. Merlin, G. Pulci and F. Marra	**Ms. Giulia Pedrizzetti**, "La Sapienza" University of Rome, **Italy**
10:30 - 11:00	**Coffee Break / Posters Session**	
Session's Chairs: **Dr. Monica Bollani, Photonic and Nanotechnology Institute, Italy** **Prof. Stanko Brankovic, University of Houston, USA**		
11:00 - 11:30	Templating effects of graphene in stabilizing ultrathin compounds on metals **A.Brambilla**, A. Picone, M. Capra, S. Fiori, D. Dagur, G. Vinai, G. Panaccione and F. Ciccacci	**Prof. Alberto Brambilla**, Politecnico di Milano, **Italy**
11:30 – 11:45	Ultralight and robust current collectors for high-energy and high-safety lithium-ion batteries **S. He** and P. Gao	**Dr. Suihua He**, The Hong Kong University of Science and Technology, **China**
11:45 - 12:00	Growth behaviour of energy-efficient protective black PEO coatings on additively manufactured AlMgSi alloys **M.A. Iqbal**, Miguel Collado Vian, Raul Arrabal, Endzhe Matykina, Marta Mohedano	**Dr. Muhammad Ahsan Iqbal**, Complutense University Madrid, **Spain**
12:00 - 14:00	**Lunch Break – Restaurant**	
Group Photo at 13:45		

SICT 2024 / Plasma Tech 2024 Joint session II. B: Bio-interfaces, Biomedical / Bioactive surfaces and coatings Plasma applications for biology, medicine, and agriculture		
Session's Chairs: Prof. Holger Kersten, University Kiel, Germany Prof. Rui Silva, University of Aveiro, Portugal Prof. Sungmo Moon,Korea Institute of Materials Science, Rep. of Korea		
14:00 - 14:30	Rapid inactivation of viruses in water by plasma treatments G. Primc, M. Zver, A. Filipič, D. Dobnik and **M. Mozetič**	**Prof. Miran Mozetic,** Jozef Stefan Institute, **Slovenia**
14:30 - 14:45	Well-defined poly(2-isopropenyl-2-oxazoline) brushes provide enhanced biocompatibility and versatility in surface functionalization M. Singh, L. Poláková, A. de los Santos Pereira, O. Pop-Georgievski, J. Svoboda, T. Riedel, S. Gupta, Z. Sedláková, V. Raus and **R. Poreba**	**Dr. Rafal Poreba**, Institute of Macromolecular Chemistry, **Czech Rep.**
14:45 - 15:00	Microstructure and Properties of Micro-Arc Oxidized Coatings Produced on Plastically Deformed Titanium **A. Trelka-Druzic**, F. Muhaffel, A. Jarzębska, G. Cempura, M. Kulczyk, H. Cimenoglu and Ł. Maj	**Mrs. Anna Trelka-Druzic**, Institute of Metallurgy and Materials Science, **Poland**
15:00 - 15:15	Atmospheric cold plasma technology advancements: enabling cost-effective, standardized and enhanced biomolecule immobilization for biosensing applications **L. Dankers**, K. Leirs, B. Nisol and J. Lammertyn	**Ms. Lieze Dankers**, KU Leuven, **Belgium**
15:15 - 15:30	Plasma Activated Media for Prostate Cancer Treatment **M. Moreau**, I. Ghzaiel, K. Charlet, S. Menecier, F. Perisse, M. Sleiman and M. Sarakha	**Mr. Maxime Moreau,** Clermont Auvergne University, **France**
15:30 - 15:45	Fundamentals of Plasma Disinfection for the Inactivation of Viruses **M. Shaban**, A. P. Weber and N. Merkert	**Dr. Masoom Shaban**, Clausthal University of Technology, **Germany**
15:45 - 16:00	Cold Plasma Induced Enhancement of Recombinant Thaumatin Bioproduction **N. Parsekar**, S. Akkermans, D. Kozak and J. F. M. Van Impe	**Ms. Nivedita Parsekar**, KU Leuven, **Belgium**
16:00 - 16:15	In vitro disinfection of MRSA biofilms with cold atmospheric plasma. Potential approach for hospital-acquired infection management **M. Lunder**, S. Dahle and R. Fink	**Mrs. Manca Lunder**, University of Ljubljana, **Slovenia**
16:00 - 16:30	**Coffee Break / Posters Session**	

Conference Dinner
19:30 – Bristol Lounge

18 April 2024		
SICT 2024 / Plasma Tech 2024 Joint Session II. C: Plasma fundamentals / Modelling / Atomic and Molecular Processes Plasma Processing / Materials Interactions / Coatings		
Conference Room: Salon Bristol		
Session's Chairs: Prof. Yasunori Tanaka, Kanazawa University, Japan Dr. Nicolas Naudé, LAPLACE, University de Toulouse, France		
08:30 - 09:00	EUV Generated Hydrogen Plasmas T. Piskin and **M.J. Kushner**	**Prof. Mark Kushner**, University of Michigan, **USA**
09:00 - 09:30	Renewable electricity driven chemistry for energy conversion and storage: Novel pathways provided by plasma enhanced chemistry **R. van de Sanden**	**Prof. Richard van de Sanden**, Eindhoven University of Technology, **The Netherlands**
09:30 - 09:45	Multi-Scale Model for High Aspect Ratio TiN Etching in a Cl2/Ar Inductively Coupled Plasma **L. Filipovic** and T. Reiter	**Prof. Lado Filipovic**, Institute for Microelectronics, TU Wien, **Austria**
09:45 - 10:00	Simple Plasma-triggered Reduction & Exfoliation of Graphene Oxide and Fabrication of 2D and 3D rGO Structures **R. Krumpolec**, F. Zelenák, J. Jurmanová, M. Stupavská, M. Pazderka, Z. Moravec and M. Černák	**Dr. Richard Krumpolec**, Masaryk University, **Czech Rep.**
10:00 - 10:15	Non-Thermal Plasma Synthesis of Imine Macrocycles **P. Roszkowska**, A. Scholes, J.L. Walsh, T.L. Easun and A.G. Slater	**Ms. Patrycja Roszkowska**, University of Liverpool, **UK**
10:15 - 10:30	Plasma Diagnostics for Ion Energy and Flux measurements in Etching and Deposition processes A. Verma and T. Gilmore	**Mr. Thomas Gilmore**, Impedans Ltd, **Ireland**
10:30 - 11:00	**Coffee Break / Posters Session**	
Session's Chairs: Prof. Yasunori Tanaka, Kanazawa University, Japan Prof. Richard van de Sanden, Eindhoven University of Technology, The Netherlands Dr. Nicolas Naudé, LAPLACE, University de Toulouse, France		
11:00 - 11:15	The effect of plasma parameters on the surface treatment of electrocatalysts **H. Li**, C. Schulze and J. Benedikt	**Mr. He Li**, Kiel University, Kiel, **Germany**
11:15 - 11:30	Surface Functionalization of Industrial Materials via PECVD and its Influence on Oxygen Nucleation **J. Heinrich**, K. Schwarzenberger, X. Yang and K. Eckert	**Mr. Julian Heinrich**,, Helmholtz-Zentrum Dresden-Rossendorf, **Germany**
11:30 - 11:45	Atmospheric Pressure cold Plasma processing of textiles – applications in functional finishings **S.S. Palaskar**	**Dr. Shital S. Palaskar** The Bombay Textile Research Association **India**
11:45 - 12:00	Enhancing adhesion of recycled and non-recycled EVA via atmospheric pressure plasma treatments **C. Ruzafa-Silvestre**, V.M. Serrano-Martínez, M.D. Romero-Sánchez and E.Orgilés-Calpena	**Mr. Carlos Ruzafa Silvestre**, INESCOP, **Spain**
12:00 - 12:15	Enhancing Cotton Fabrics Dyeability through Low-Pressure Plasma Activation Surface Treatment V. M. Serrano Martínez, C. Ruzafa Silvestre, M. D. Romero Sánchez and E. Orgilés Calpena	**Mr. Victor M. Serrano Martínez**, INESCOP, **Spain**
12:15 - 12:30	Industrially Applicable Atmospheric-Pressure Plasma Treatment of Nonwovens, Cotton and Electrospun Nanofibres for the Enhancement of Their Performance Properties in Various Areas of Applications **D. Kováčik**, O. Galmiz, J. Kelar, L. Zahedi, S. Ben Hamida, V. Medvecká, R. Krumpolec, L. Mynářová and M. Černák	**Prof. Dusan Kovacik,** Masaryk University, **Czech Rep**
12:00 - 14:00	**Lunch Break - Restaurant**	
Group Photo at 13:45		

Session's Chairs: **Prof. Catherine Batiot-Dupeyrat, University of Poitiers, France** **Prof. Wen-Bin Jian, National Yang Ming Chiao Tung University, Taiwan** **Prof Claudia Riccardi, University Milano-Bicocca, Italy**		
14:00 - 14:30	High-Throughput Synthesis of Nanomaterials by Spatial-Temporal Control of Modulated Induction Thermal Plasma Fields and its Optimization by Machine Learning **Y. Tanaka**	**Prof. Yasunori Tanaka**, Kanazawa University, **Japan**
14:30 - 15:00	Diffuse Dielectric Barrier Discharges at atmospheric pressure: Technical and Scientific locks for thin film deposition **N. Naudé**, A. Belinger, H. Caquineau, S. Dap and F. Fanelli	**Dr. Nicolas Naudé**, LAPLACE, University de Toulouse, **France**
15:00 - 15:15	Plasma-Assisted Low-Temperature Curing of Polysilazane Coating on Aluminum Substrate **P. Ghourchi Beigi**, R. Krumpolec, L. Zahedi, M.Stupavská and D. Kováčik	**Mr. Pedram Ghourchi Beigi**, Masaryk University, **Czech Rep.**
15:15 - 15:30	An engineering and a chemical approach to overcome inhibition of polymerization during open air atmospheric pressure plasma deposition of poly(ethylene oxide) coatings **T. Dekoster**, R. Vos, W. Van Roy, B. Nisol, K. Jans and A. Delabie	**Mr. Tijs Dekoster**, KU Leuven, Leuven, **Belgium**
15:30 - 15:45	Study of adhesion promoter coatings, obtained by atmospheric pressure plasma, on granulous substrates **I. Bacquet**, C. Guyon, M. Yonger and M. Tatoulian	**Mrs. Irène Bacquet,** Institut de Recherche de Chimie Paris/ Saint-Gobain Recherche Paris, **France**
15:45 - 16:00	Effect of Positive Voltage Pulses in HiPIMS on the Ti-PEEK Interface Formation **L. Cvrček**, V. Nehasil and M.Buřil	**Dr. Ladislav Cvrček**, Czech Technical University in Prague, **Czech Rep**
16:00 - 16:30	**Coffee Break / Posters Session**	
Session's Chairs: **Prof. Jochen Schein, University of Federal Armed Forces Munich, Germany** **Prof. Wen-Bin Jian, National Yang Ming Chiao Tung University, Taiwan** **Prof. Dusan Kovacik, Masaryk University, Czech Rep.**		
16:30 - 16:45	Synthesis of carbon micro- and nanostructures by means of DC PACVD **M. Schachinger**, F. A. Delfin, B. Fickl, B. C. Bayer, C. Forsich and D. Heim	**Mr. Manuel Schachinger**, University of Applied Sciences Upper Austria, **Austria**
16:45 - 17:00	Atmospheric-pressure Plasma Enhanced Chemical Vapor Deposition of size agents on fiberglass **M. Troia**, A. Schulz, M. Walker, M. Haag, D. Ben Salem, P. Holste, A. Knospe, C. Dobslaw and B. Glocker	**Dr. Mariagrazia Troia**, University of Stuttgart, **Germany**
17:00 - 17:15	Non-thermal plasma in nanoscale: application potential in the preparation of silicon quantum dots and tailoring of their surface chemistry using plasma-activated liquids. **P Galář**, F. Matějka, J. Kopenec and K. Kůsová	**Dr. Pavel Galář**, Charles University- Prague, **Czech Rep.**
17:15 - 17:30	Adaptation of non-thermal plasma system to overcome size limitations of sythetized silicon nanoparticles **J. Kopenec**, F. Matějka, P. Galář and K. Kůsová	**Mr. Jakub Kopenec**, Charles University- Prague, **Czech Rep.**
17:30 - 17:45	Plasma Jet Sputtering as an Efficient Tool for the Preparation of Transition Metal Oxide Catalysts Supported on Stainless Steel Meshes **P. Topka**, K. Jirátová, M. Čada, I. Naiko, A. Ostapenko, J. Balabánová, M. Koštejn, J. Maixner, Z. Hubička and F. Kovanda	**Dr. Pavel Topka**, Institute of Chemical Process Fundamentals, **Czech Republic**
17:45 - 18:00	General and Scalabe Synthesis of High-entropy Alloy Nanoparticles by Thermal Plasma **K.S. Kim**, M. Couillard, Z. Tang, H. Shin, D. Poitras, C. Cheng, O. Naboka, D. Ruth, M. Plunkett, L. Chen, L. Gaburici, T. Lacelle, M. Nganbe and Y. Zou	**Dr. Keun Su Kim**, National Research Council Canada, **Canada**
18:00 - 18:15	Synthesis of Simulated Radioactive Post-Detonation Particles by DC Plasma **G. Cota-Sanchez**, M. Martinez, A. Chaudhuri, M. Totland, J. Garcia-Alonso and N. Lee	**Dr. German Cota-Sanchez**, Canadian Nuclear Laboratories, **Canada**

18:15 - 18:30	Investigation of ionized metal flux fraction of magnetron sputtering at industrial conditions **P. Vašina**, J.Hnilica P. Klein, S. Debnárová, V. Sochora, M. Učík, J. Klusoň, M. Jílek and A. Lümkemann	**Prof. Petr Vasina**, Masaryk University, **Czech Rep.**
18:30 - 18:45	Active turbulence in a 2D complex plasma with Janus particles **V. Nosenko**	**Dr. Volodymyr Nosenko**, German Aerospace Center, **Germany**
18:45 - 19:00	Plasma sprayed porous Raney Nickel cathodes for alkaline water electrolysis **M. Wetegrove**, U. Lindemann and A. Kruth	**Dr. Marcel Wetegrove**, Leibniz Institute for Plasma Science and Technology, **Germany**

Conference Dinner
19:30 – Bristol Lounge

18 April 2024		
Tribology 2024 Session II. D: Coatings and Surfaces Corrosion / Tribological Properties / Physics or Chemistry of Tribo-Surfaces/ Nanotribology		
Conference Room: Salon Schönbrunn 1		
Session's Chairs: Prof. Carsten Gachot, Vienna University of Technology, Austria Prof. Pawel Pawlus, Rzeszow University of Technology, Poland Prof. Giovanni Straffelini, University of Trento, Italy		
09:30 - 10:00	Solving tribological challenges in the era of Digital Transformation and supporting Circular Economy as well as Energy and Mobility Transition **E. Badisch**	**Dr. Ewald Badisch**, AC2T Research GmbH, **Austria**
10:00 - 10:30	Controlling surface tribological properties reduces the environmental impact of engineering technologies. **G. Carbone**	**Prof. Giuseppe Carbone**, Politecnico di Bari, **Italy**
10:30 - 11:00	**Coffee Break / Posters Session**	
Session's Chairs: Dr. Ewald Badisch, AC2T Research GmbH, Austria Prof. Pawel Pawlus, Rzeszow University of Technology, Poland Prof. Giovanni Straffelini, University of Trento, Italy		
11:00 - 11:30	Application of Surface Modification Technology for Improving the Tribological Properties of Additively Manufactured Materials **A.Amanov**	**Prof. Auezhan Amanov**, Tampere University, **Finland**
11:30 - 11:45	Friction-assisted Selective Electrodeposition of FeCoNi Alloy Film on Pre-wear Surface of Bearing Steels Y. Song, C. Liu and **Y. Meng**	**Prof. Yonggang Meng**, Tsinghua University, **China**
11:45 - 12:00	Investigation of the tribological properties and tribo-layers of Graphene in Cu metal matrix composites. **Y. Xu**, P. Yao and H. Zhou	**Mr. Yuxuan Xu**, Central South University, **China**
12:00 - 12:15	Brake emissions and performance of a WC-coated disc sliding against a NAO friction material **S. Candeo**, A.P. Nogueira and G. Straffelini	**Mr. Stefano Candeo**, University of Trento, **Italy**
12:00 - 14:00	**Lunch Break - Restaurant**	
Group Photo at 13:45		
Session's Chairs: Prof. Giuseppe Carbone, Politecnico di Bari, Italy Prof. Auezhan Amanov, Tampere University, Finland		
14:00 - 14:15	Effect of laser texturing on the frictional resistance in reciprocating motion at elevated temperature S. Wos, W. Koszela, A. Dzierwa, J. Sep and **P. Pawlus**	**Prof. Pawel Pawlus**, Rzeszow University of Technology, **Poland**
14:15 - 14:30	In-depth analysis of the tribological response of PHBV and its blends with PLA via scratch testing **P. M. Martínez-Rubio**, M. D. Avilés, L. Mínguez, R. Pamies, and F. J. Carrión-Vilches	**Mr. Pablo M. Martínez-Rubio**, Polytechnic University Cartagena, **Spain**
14:30 - 14:45	The Influence of Retained Austenite and Microstructure on the Abrasive Wear Resistance of Bainitic Steels **C.S. Brown**, J.G. Speer and E. De Moor	**Ms. Caseyq Brown**, Colorado School of Mines, **USA**
14:45 - 15:00	Microstructural evolution of scuffing in self-mated steels measured in-situ during sliding **S. Berkebile**, C. Lorenzo Martin, D. Bachnacki, F. Ahmed Koly, N. Murthy, S. Walck, J.-S. Park, P. Kenesei, D. Burris, O. Ajayi, S. Liu, A. Butler-Christodoulou, A. Bhattacharjee, Q. J. Wang and B. Gould	**Dr. Stephen Berkebile**, DEVCOM Army Research Laboratory, **USA**
15:00 - 15:15	Measuring Bearing Loads – Practical Implementation of Impedance Measurement in a Machine Tool Spindle **S. Puchtler**, M. Fett, G. Martin and E. Kirchner	**Mr. Steffen Puchtler**, Technical University of Darmstadt, **Germany**

15:15 - 15:30	BaTiO3 /UHMWPE Composites for Enhanced Performance in Load-Bearing Biomedical Implants **D. Havaldar**, Z. Starý, L. Cvrček, J. Walter, Z. Jeníková and K. Pawar	**Ms. Darshana Havaldar**, Czech Technical University in Prague, **Czech Rep.**
15;30 - 15:45	Role of terminations on the nano-tribological properties of Ti-based MXene layers studied by DFT simulations **E. Marquis**, F.Benini, A.Rosenkranz and M.C. Righi	**Mr. Edoardo Marquis**, University of Bologna, **Italy**
15;45 - 16: 00	The Influence of Pin Inclination on Frictional Behavior in Pin-on-Disc Sliding and Its Implications for Test Reliability **H. Yue**, J. Schneider and P. Gumbsch	**Dr. Hongzhi Yue, Karlsruhe,** Institute of Technology, **Germany**
16:00 - 16:30	**Coffee Break / Posters Session**	
16:30 - 16:45	A novel MTES/polysilazane hybrid polymer for corrosion protection of stainless steel substrate **P. N. Moghaddam**, M. Parchovianský, A. Duran, E. Merino, Y. Castro, I. Parchovianská and A. Pakseresht	**Mrs. Parisa N. moghaddam**, Alexander Dubček University of Trenčín, **Slovakia**
16:45 - 17:00	Exploring the Relationship Between Surface Treatment Processes and Tensile Strength in Steel Bonds P. I. Kovács, B. Körömi, Z. Weltsch and **M. Berczeli**	**Dr. Miklós Berczeli**, John von Neumann University, **Hungary**
17:00 - 17:15	Li-ION battery cell bonding technology **F. Tajti**, M. Berczeli and Z. Weltsch	**Mr. Ferenc Tajti**, John von Neumann University, **Hungary**

Conference Dinner
19:30 – Bristol Lounge

19 April 2024		
Tribology 2024 Session III. A: Lubricants and hydrodynamic lubrication / Biotribology		
Conference Room: Salon Bristol		
Session's Chairs: Prof. Yonggang Meng, Tsinghua University, China Prof. Giovanni Straffelini, University of Trento, Italy		
09:15 - 09:45	Recent Advances and Current Challenges in Developing Predictive Models and Design Tools in Tribology **D. Dini**	**Prof. Daniele Dini**, Imperial College London, **UK**
09:45 - 10:00	Tribological behaviours of additively manufactured CoCrMo in bovine calf serum for human joint replacement: understanding the role of process parameters and porosity **Q. Shi**, M.S. Abd Aziz, T. Reddyhoff and C. Myant	**Ms. Qingyue Shi**, Imperial College London, **UK**
10:00 - 10:30	**Coffee Break / Posters Session**	
10:30 - 11:00	PVD nitrides to be used for increased life time of tools and components **Paul H. Mayrhofer**	**Prof. Paul H. Mayrhofer**, TU Wien, **Austria**
11:00 - 11:15	Insight into the fundamental behaviour of Organic Friction Modifiers doped with small polar molecules **I. Kicior**, T. Poręba, E. A. Willneff, J. Frey, V. Honkimäki, A. Morina, P. Dowding and S. L. M. Schroeder	**Ms. Inga Kicior**, European Synchrotron Radiation Facility, Grenoble, **France**
11:15 - 11:30	Ecolubricants based on vegetable oils with ionic liquid **M.D. Avilés,** P. Mostaza-Ucedo, T. Caparrós and F.J. Carrion-Vilches	**Dr. María D. Avilés González,** Polytechnic university of Cartagena, **Spain**
11:30 - 11:45	Optimizing Tribological Performance: Exploring the Role of Surface Texture and Lubricants Composition **M.S. Abd Aziz**, T. Reddyhoff, C. Tadokoro	**Mr. Mohd Syafiq Abd Aziz**, Imperial College London, **UK**
11:45 - 12:00	A bearing test stand to represent E-VTOL air-screw loads in vertical and forwards flight. **R. T. Wragge-Morley**, G. C. Barnaby, J. M. Yon and P. H. Mellor	**Dr. Robert Wragge-Morley**, University of Bristol, **UK**
12:00 - 12:15	Superlubricity of carbon films via regulated interface **B. Zhang**	**Prof. Bin Zhang**, Lanzhou Institute of Chemical Physics, **China**

19 April 2024		
SICT 2024 / Plasma Tech 2024 Session III. B: Coatings for Energy and Environmental Applications Plasma application in Energy and environment		
Conference Room: Salon Schönbrunn		
Session's Chairs: Prof. Lado Filipovic, TU Wien, Austria Prof. Mark Kushner, University of Michigan, USA Prof. Jochen Schein, University of Federal Armed Forces Munich, Germany		
08:30 - 09:00	Non-thermal plasma: an efficient technology for regeneration of coked zeolite **C. Batiot Dupeyrat**	**Prof. Catherine Batiot-Dupeyrat**, University of Poitiers, **France**
09:00 - 09:30	Preparation of Nanoparticulate WO3/MoO3 Films for Making Electro-chromic and Energy-Storage Devices **W-B. Jian**, C-C W;ei, P-H. Lin, T-H. Wu, Jun-Wei Huang	**Prof. Wen-Bin Jian**, National Yang Ming Chiao Tung University, **Taiwan**
09:30 - 10:00	Room Temperature Synthesis of Hydrogen Permeation Barrier for Storage and Transportation Application **S. R. Brankovic**, N. Amiri and I. Rabbi	**Prof. Stanko Brankovic**, University of Houston, **USA**
10:00 - 10:30	**Coffee Break**	
10:30 - 10:45	Film-Based Repair System for Offshore Wind Tower Coatings **T. Marquardt**, A.W. Momber, S. Buchbach, M. Irmer, M. Beitmann and B. Koeller	**Mr. Tom Marquardt**, Muehlhan Holding GmbH, **Germany**
10:45 - 11:00	Development of a 100 kW Steam Plasma Torch (SPT) for Waste Remediation and Clean Hydrogen Production **H.R. Yousefi**, B. Glocker, S. Pauly and H. Koch	**Dr. Hamid Reza Yousefi**, PlasmaAir AG, **Germany**
11:00 - 11:15	Atomic Scale Loading of Palladium on Oxygen-Deficient Cerium Oxide for Electrocatalytic Applications A.B. Yousaf and **P. Kasak**	**Dr. Peter Kasak**, Qatar University, **Qatar**
11:15 - 11:30	Novel deposition technique of α-Al2O3-based coating as a hydrogen permeation barrier **N. Laadel**, M. El Mansori, N. Frederich and S. Marlin	**Mr. Nour-Eddine Laadel**, Arts et Métier Institute of Technology, France
11:30 - 11:45	Reactive sputtering of ceramic hydrogen barrier coatings **A. Zirbel**, L. Haus, S. Hübner, M. Müller, J. Riedel and S. Ulrich	**Mrs. Anne Zirbel**, Robert Bosch Manufacturing Solutions GmbH, **Germany**
11:45 - 12:00	Influence of operating parameters of nanosecond pulsed dielectric dis-charge on the CH4 reforming with CO2 **T.V. Reddy Thurpu**, E. Fourre S. Rossignol and C. Batiot Dupeyrat	**Mr. Teja Vardhan Reddy Thurpu**, University of Poitiers, **France**
12:00 - 12:15	Original liquid DBD plasma reactor coupled with membrane filtration N. Mougel, **E. Fourré** and B. Teychené	**Dr. Elodie Fourré**, University of Poitiers, **France**
12:15 - 12:30	Hydrogen Production from NH3 in a Ferroelectric Packed-Bed Plasma Reactor **M. Ruiz-Martín**, S. Marín-Meana, A. Megías-Sánchez, M. Oliva-Ramírez, J. Cotrino, A. R. González-Elipe and A. Gómez-Ramírez	**Mr. Mateo Ruiz Martín**, University of Seville, **Spain**

SICT 2024 / Plasma Tech 2024 / Tribology 2024 Joint Conferences Posters

17 and 18 April 2024 Sessions

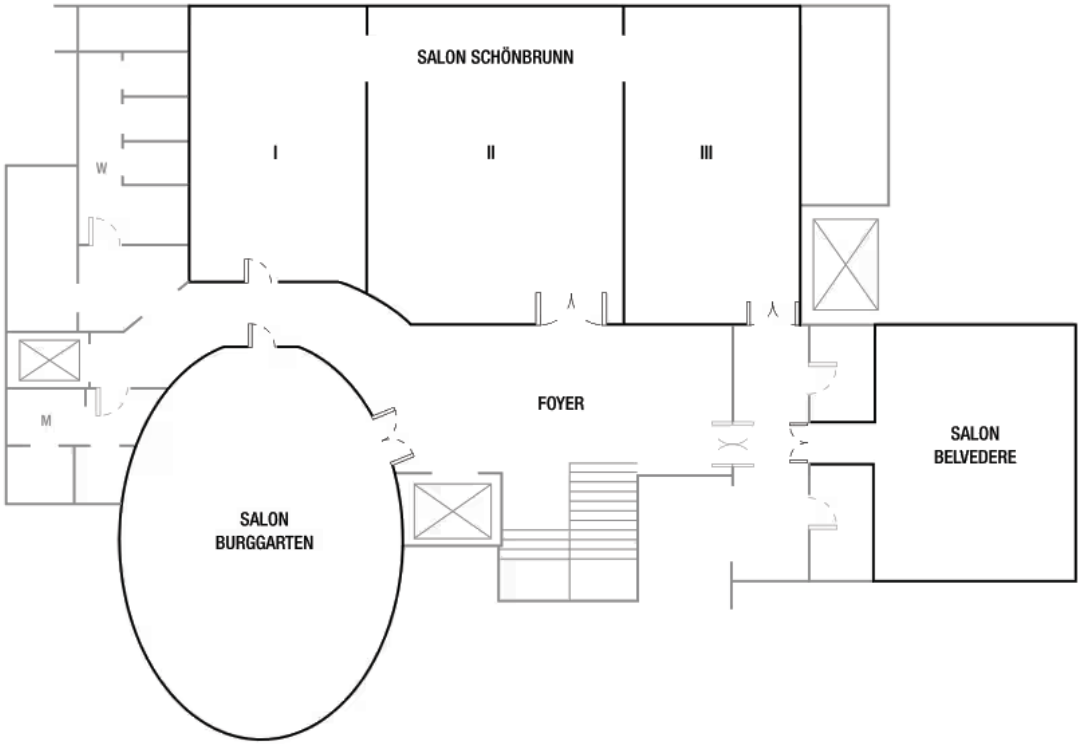
N.	Poster Title	Author, Affiliation, Country
1.	Design and synthesis of advanced nanostructured coatings with hydrophobic/ icephobic properties for aviation **Z. Sideratou**, D. Tsiourvas, F. Katsaros, K. SpyroU, A. Sapalidis, S. Papageorgiou and P. Booker	**Dr. Zili Sideratou**, NCSR "Demokritos", **Greece**
2.	Methodological study of the deposition parameters of aminopropyl silsesquioxane on the surface of glass vials using aqueous solution **T. Pastore**, G. Trevisi, F. Casoli , L. Savio, M. Di Maro, G. Gautier, M. G. Faga, D. Costa, M. Poncini and D. Faverzani	**Ms. Tiziana Pastore**, University of Parma, **Italy**
3.	Multilayered CVD coated tools with texturized Al2O3 layer for machining of high strength special steels A. Pinto, J. Ferreira, **F.J. Oliveira**, A.V. Girão, C.M. Fernandes and D. Figueiredo	**Dr. Filipe J. Oliveira**, University of Aveiro, **Portugal**
4.	Comparative investigation of the biodegradable control properties of post- and simply PEO coated Mg alloy **Z. Ur Rehman** and B. Heun Koo	**Dr. Zeeshan Ur Rehman**, Changwon National University, **Rep. of Korea**
5.	The high-temperature stability and mechanical properties of multi-component TiTaZrHfxN coatings prepared by reactive DC magnetron sputtering and High target utilization sputtering **L. Kvetková**, P. Hviščová, F. Lofaj, M. Mikula and T. Roch	**Mrs. Lenka Kvetkova**, Institute of Materials Research SAS, **Slovakia**
6.	Nanoarchitectures with Cu-Ag embedded clusters for enhanced localized surface plasmon resonance detection **S. Kumar**, H. Maskova, L. Doudová, P. Pleskunov, A. Kuzminova, P. Curda, L. Hejduk, J. Sterba, O. Kylián, R.O.M. Rego and V. Stranak	**Mr. Sanjay Kumar**, University of South Bohemia, **Czech Rep.**
7.	Tribogical properties of DLC deposited by PE-CVD under high Vacuum **B.R. Cho**,T-H. Jang,T-G. Kim,I. Heo, B. Choe and J. H. Kim	**Mr. Bo Ram Cho**, Korea Institute of Industrial Technology, **Rep. of Korea**
8.	Structural and mechanical properties of laminate-type thin film SWCNT/ SiOXNY composites **E. Shmagina**, O. Volobujeva, M. Antonov and S. Bereznev	**Ms. Elizaveta Shmagina**, Tallinn University of Technology, **Estonia**
9.	Mechanical endurance improvement of the coated nanosurface by laser Y.N. Jung and **M. Yung Jeong**	**Prof. MyungYung Jeong**, Pusan National University, **Rep. of Korea**
10.	Hybrid SLM/DED Additive Manufacturing of Ti6Al4V Alloy-Optimization of Process Parameters and Heat Treatment **A.Kocijan**	**Dr. Aleksandra Kocijan**, Institute of Metals and Technology, **Slovenia**
11.	Study of 2D Materials by Time-of-Flight Spectroscopy **I. Konvalina**, E. Materna Mikmeková, L. Průcha, J. Piňos, A. Paták, M. Zouhar and I. Mül-lerová	**Dr. Ivo Konvalina**, Institute of Scientific Instruments of the Czech Academy of Sciences, **Czech Rep.**
12.	Dynamics of compound droplet with dual viscosities on obstacles for center-assisted retraction **S. Yun**	**Prof. Sungchan Yun**, Korea National University of Transportation, **Rep. of Korea**
13.	On the use of a plasma jet for atomic oxygen production: Source characterization and application in cultural heritage **M. Poupouzas**, A. Nikiforov, R. Morent and A. Sobota	**Mr. Michail Poupouzas**, Eindhoven University of Technology, **The Netherlands**
14.	Slot-die coating of cellulose nanocrystals for improved barrier properties of paper **V. Kokol**	**Mr. Vanja Kokol**, University of Maribor, **Slovenia**
15.	Atmospheric pressure glow discharge for the determination of hydride-forming elements **K. Gręda**, J. Kratzer, M. Svoboda, N. Vlčková, J. Dědina and P. Pohl	**Dr. Krzysztof Greda**, Wroclaw University of Science and Technology, **Poland**
16.	Instabilities in O2 Capacitively Coupled Radio-Frequency Plasmas **M. Myrzaly**, R. Masheyeva, C. Tian, M.Vass, L.Y. Luo, K. Dzhumagulova, P. Hart-mann, J. Schulze and Z. Donkó	**Mr. Murat Myrzaly**, Satbayev University, **Kazakhstan**
17.	Study of the surface and effect of cold plasma treatment on the adhesion of Polyphenylene Sulfide **M.A. Martinez** and J. Abenojar	**Dr. Miguel Angel Martinez**,University Carlos III of Madrid, **Spain**

18.	Hierarchically Nanostructured metal oxide thin films by plasma **C. Riccardi** and H.E. Roman,	**Prof Claudia Riccardi,** University Milano-Bicocca, **Italy**
19.	Fabrication of Atmospheric Plasma-reduced rGO-based Nanocomposites and Its Applications **F. Zelenák**, R. Krumpolec , J. Jurmanová, M.Stupavská, M. Kováčová, P. Neilinger, Z. Moravec, M. Grajcar and M. Černák	**Mr. František Zelenák**, Masaryk University, **Czech Rep.**
20.	Effect of molybdenum concentration and deposition temperature on the structure and tribological properties of the diamond like-carbon films. **H. Zhairabany**, A. Sarakovskis, E. Gnecco, E. Vanags and L. Marcinauskas	**Mr. Hassan Zhairabany**, Kaunas University of Technology, **Lithuania**
21.	Towards green tribology: water versus oil lubrication of laser-textured Ti6Al4V alloy upon addition of MoS2 nanotubes **M. Conradi**, B. Podgornik, A. Kocijan, M. Remškar and D. Klobčar	**Dr. Marjetka Conradi**, Institute of metals and technology, **Slovenia**
22.	The effect of shape and size of nanoceria on the antimicrobial properties of nanocoatings Z. Sideratou, A. Papavasiliou, K.M. Lyra, D. Tsiourvas, L. Hernández Ruiz, T. Oroz Mateo and **F.K. Katsaros**	**Dr. Fotios Katsaros**, NCSR "Demokritos", **Greece**
23.	Development of nanoporous nickel oxide materials as electrodes for supercapacitors **Y-M. Lu**, Y-C.Lin and L. Ting Yi	**Prof. Yang-Ming Lu**, National University of Tainan, **Taiwan**
24.	Saving Energy in Electrochemical Water Treatment Using BDD Electrodes Through Forced Fouling-Reactivation Cycles: Optimizing Frequency and Duty Cycle P. Brosler, **R. F. Silva**, J. Tedim and F. J. Oliveira	**Prof. Rui Silva**, University of Aveiro, **Portugal**
25.	Effect of plasma on cork particles to adsorb magnetite, and later, hexavalent chromium from water. **J. Abenojar**, S. López de Armentia, M.A. Martínez and J.C. del Real	**Dr. Juana Abenojar**, University Carlos III of Madrid, **Spain**
26.	Improvement of Hydrophilicity of Composite Membrane and its application for Desalination P. Rattana-arporn and **S. Poompradub**	**Dr. Sirilux Poompradub**, Chulalongkorn University- Bangkok, **Thailand**
27.	N2/Ar dual-gas microplasma device conducting first-in-human wound treatment clinical trial S-C. Pan, Y-H. Wei, M-H. Cheng and **J-D. Liao**	**Prof. Jiunn-Der Liao**, National Cheng Kung University- Tainan, **Taiwan**
28.	Dielectric barrier discharge air plasma as a sustainable process for bio-refinery development towards poly(3-hydroxybutyrate) production **C. Argeiti**, E. Stylianou, D. Ladakis, P.J Cullen and A. Koutinas	**Mrs. Chrysanthi Argeiti**, Agricultural University of Athens, **Greece**
29.	Biorefinery electrification by dielectric barrier discharge plasma of lignocellulo-sic biomass in a semi-pilot microbubble reactor **E. Georgiadou,** N. Giannakis, K. Filippi and A. Koutinas	**Ms. Evanthia Georgiadou**, Agricultural University of Athens, **Greece**
30.	Radiative transfer in air-H2O mixtures for LIBS applications: calculation of the Net Emission Coefficients and the Mean Absorption Coefficients **I. Bendida**, Y. Cressault, B. Liani and F. Valensi	**Mrs. Imane Bendida**, University of Paul Sabatier Toulouse , **France**
31.	Simultaneous production of hydrogen gas and carbon black nanoparticles using liquid phase plasma method **S.-C. Jung** and K.-H An	**Prof. Sang-Chul Jung**, Sunchon National University, **Rep. of Korea**
32.	Catalytic effects of the load-induced confinement within metallic interfaces on molecular dissociation **M. Vezzelli**, E. Marquis and M.C. Righi	**Mr. Matteo Vezzelli**, University of Bologna, **Italy**
33.	Ni-Al2O3 Cold Spray Coating: Effect of process parameters on Microstructure and Performance of the coating **R.A. Goriya**, A.A. Sorour and N. Ogunlakin	**Mr. Raihan A. Goriya**, King Fahd University of Petroleum & Minerals, Dhahran, **Saudi Arabia**
34.	Abrasion of Polyester Sportswear Materials: The Impact of Yarn Parameters and Aging G. Čubrić, I. Salopek Čubrić and **A. Petrov**	**Ms. Antonija Petrov**, University of Zagreb Faculty of Textile Technology, **Croatia**
35.	Effect of ceramic tribo-elements on tribological properties of rough steel surfaces A. Dzierwa and **R. Reizer**	**Prof. Rafal Reizer**, University of Rzeszow, **Poland**
36.	Multi-criteria optimization of tribological properties of slide-burnished 36NiCrMo16 steel **A. Dzierwa**, J. Sep and P. Pawlus	**Dr. Andrzej Dzierwa**, Rzeszow University of Technology, **Poland**

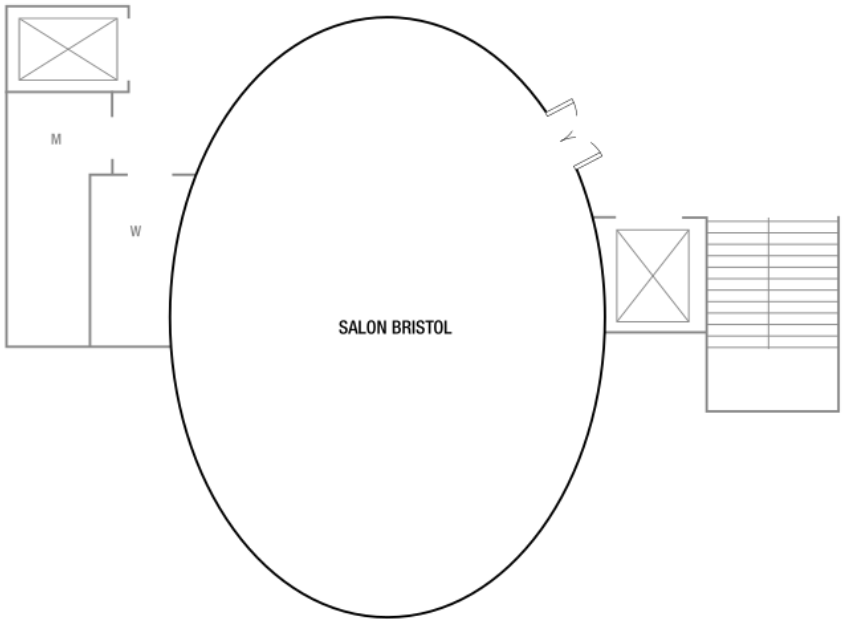
37.	Evaluation Method for Dynamic Damage Performance of Materials under High-Frequency Impact **M. Hua** and X. Sui	**Mr. Minqi Hua**, Lanzhou Huahui Instrument Technology Co., Ltd, **China**
38.	Protic ionic liquids as additives in water-based ecolubricants **P. Mostaza-Ucedo**, J. Arias, M.D. Avilés and F.J. Carrion-Vilches	**Ms. Paloma Mostaza Ucedo**, Universidad Politécnica de Cartagena, **Spain**
39.	Influence of Tribo-Films of Calcium Detergents on Micro-Pitting Behaviour of Steels **A. Tada**, D. Spaltmann, K. Tagawa and V. L. Popov	**Mr. Akira Tada**, Technical University of Berlin, **Germany**
40.	Effect of vacuum atomic oxygen irradiation on the tribological properties of fullerene-like carbon and MoS2 films **K. Gao**, B. Zhang and J. Zhang.	**Dr. Kaixiong Gao**, Lanzhou Institute of Chemical Physics, **China**

Conference Rooms Floor Plan

BANQUET FLOOR



MEZZANINE FLOOR



WILEY

ENABLING DISCOVERY | POWERING EDUCATION | SHAPING WORKFORCES

OPEN ACCESS

Make an impact when you publish open access.

Get read, cited, and shared, globally!

There are clear advantages of choosing open access for your manuscript.
You could instantly benefit from:

3x Downloads

On average, open access articles were **downloaded 3x as much** as those which were not open access

2x Citations

On average, open access articles were cited nearly **2x as much** as those which were not open access.

4.5x Altmetric

On average, open access articles were received **4.5x as much Altmetric attention** as those which were not OA.

And it can be cheaper than you think!
Article publication charges are currently waived for some of our new journals. If not, they may be covered by your institution.

Learn more at bit.ly/OA-Advantage-Ad

*About our findings: Our research focused on the metrics that authors have told us are important to them: usage (defined here by full-text downloads), citations (we used Dimensions citations here), and Altmetric Attention Scores. Insights were gained from an extensive review of Wiley journal articles from January 1 2015 to August 31 2021.

Notes

SETCOR
Conferences & Exhibitions