

POSTER PRESENTATIONS

Session: Instrumentation

I1-Tomography, 3D Imaging and Image Processing, Phase-Related Techniques (including holography, vortex beams, Bessel beams etc.)

Monday, September 25th 16:30-18:30h, The hotel Lone Reception floor

Presenting Author	Title	Authors	Abstract ID
Maurizio Donarelli	Electron tomography in the Scanning Electron Microscope for the investigation of biological and inorganic samples	M. Donarelli, M. Ferroni, V. Morandi, A. Migliori, L. Ortolani, L. Masini, C. R. Chandraiahgari, G. De Bellis, M. S. Sarto	PI1-1
Dominik Pinkas	Project „Pattern“ – an online tool for spatial analysis of immunolabeling in electron microscopy	D. Pinkas, V. Philimonenko, J. Janáček, J. Novák, M. Jiřina, P Hozák	PI1-2
Ognjen Milat	Selective Imaging of the Cu-sublattice in the Complex Cu ₂ -xSe Crystal Structure	Ognjen Milat, Nazif Demoli	PI1-3
Domagoj Belić	Toward direct electron microscopy of nanomaterials in living systems	Domagoj Belić, Oihane Fragueiro, Dina Salah, Martin Volk, Mathias Brust	PI1-4
Davide Porrelli	A micro computed tomography quantitative study of tumor microvasculature changes after PhotoBioModulation therapy	Davide Porrelli, Simone Vodret, Katia Rupel, Luisa Zupin, Giulia Ottaviani, Jacopo Dus, Matteo Biasotto, Gianluca Turco, Serena Zacchigna	PI1-5

In-situ and Environmental Microscopy (including cryo-microscopy, heating, low-vacuum etc.)

Tuesday, September 26th 16:30-18:30h, The hotel Lone Reception floor

Presenting Author	Title	Authors	Abstract ID
Daniel Knez	Thermal vs. beam induced dynamics in the TEM: in situ experiments and simulation	Daniel Knez, Maximilian Lasserus, Martin Schnedlitz, Evelin Fisslthaler, Wolfgang Ernst, Ferdinand Hofer	PI2-1
Franc Zupanič	Precipitation mechanism and kinetics in the Al-Mn-Be-Cu alloy	Franc Zupanič, Tonica Bončina	PI2-2
Jing Cao	Structural dynamics of copper and platinum substrates during redox reactions studied by in-situ SEM	Jing Cao, Mark Greiner, Adnan Hammud, Marc Willinger, Robert Schlögl	PI2-3
Peter Poelt	In situ experiments in the ESEM – What can they tell us about the microstructure and behavior of polymeric microfiltration membranes?	Manfred Nachtnebel, Peter Poelt	PI2-4
Stefan Mitsche	In Situ EBSD Investigations of Al-Mg-Si-Alloy during heating	Stefan Mitsche, Jakob Grasserbauer, Peter Pölt	PI2-5
Teodoro Klaser	Nanoworld of acrobatic crystals – thermosalient effect (example of Scopolamine bromide)	Teodoro Klaser, Željko Skoko	PI2-6
Vilem Nedela	<i>In vivo</i> study of Diatom Assemblages Using Low Temperature Method for ESEM	E. Tihlarikova, V. Nedela, M. Frankova	PI2-7

I3-Correlative Microscopy and other Imaging Modalities (including AFM, STM etc.)

Wednesday, September 27th 16:30-18:30h, The hotel Lone Reception floor

Presenting Author	Title	Authors	Abstract ID
Erik Zupanič	Scanning Tunneling Microscopy and Spectroscopy of thin Films of Strontium Ruthenates	Marion van Midden, Tjaša Parkelj, Jernej Mravlje, Rok Žitko, Matjaž Spreitzer, Erik Zupanič	PI3-1
Margret Eckhard	Preservation of the moss <i>Physcomitrella patens</i> for electron and light microscopy in correlation with element analysis	Margret Eckhard	PI3-2
Vladislav Krzyzaneck	Localization of nanodiamonds inside cancer cells using cathodoluminescence imaging in the cryo-SEM	Nadezda Vaskovicova, Radim Skoupy, Kamila Hrubanova, Pavel Kulich, Jaroslav Turanek, Vladislav Krzyzaneck	PI3-3
Ruslan Hlushchuk	Ex vivo microangioCT and light microscopy: new correlative approach for the vasculature-focused studies	Ruslan Hlushchuk, David Haberthür, Laura Schaad, Roberto Gianni-Barrera, Andrea Banfi, Valentin Djonov	PI3-4
Anton Smirnov	True tapping mode Scanning Near-Field Optical Microscopy with bent glass fiber-made probes	A. Smirnov, V. M. Yasinskii, D. S. Filimonenko, E. Rostova, G. Dietler, S. K. Sekatskii	PI3-5

I4-Light and Electron Optics, Super-Resolution Microscopy

Tuesday, September 26th 16:30-18:30h, The hotel Lone Reception floor

Presenting Author	Title	Authors	Abstract ID
Hermann Baumgartl	Colored micrographs significantly outperform grayscale ones in modern machine learning: Insights from a systematical analysis of lithium-ion battery micrographs using convolutional neural networks	Hermann Baumgartl, Ricardo Buettner, Timo Bernthaler, Ingo J. Timm, Andreas Jansche, Gerhard Schneider	PI4-1

I5-Specimen Preparation Techniques

Wednesday, September 27th 16:30-18:30h, The hotel Lone Reception floor

Presenting Author	Title	Authors	Abstract ID
Mao Nan Chang	Improving scanning capacitance microscopy by specimen preparation	Mao Nan Chang, Jih Yang Chen, Chun Hsien Liu, Yung Han Chuang, Tsung Yu Chan, Chia Yi Wu, Yao Jen Lee	PI5-1
Manfred Nachtnebel	Immunogold labelling of allergens at fine dust filter particles for SEM investigations	Manfred Nachtnebel, Tobias Achtsnit, Johannes Mertl, Gabi Ettenberger, Johannes Rattenberger	PI5-2
Siegfried Reipert	Short Freeze Substitution under Agitation: Brevity is the Soul of Wit	Siegfried Reipert, Helmuth Goldammer	PI5-3

16-Advances in Instrumentation and Techniques (including aberration correction, low voltage SEM & TEM etc.)

Monday, September 25th 16:30-18:30h, The hotel Lone Reception floor

Presenting Author	Title	Authors	Abstract ID
Min Wu	Novel high vacuum heating for in-situ experiments in FIB/SEM systems	Min Wu, Libor Novák, Petr Wandrol, Miroslav Kolíbal, Tomáš Vystavěl	PI6-1
Ivo Konvalina	STEM modes in SEM – simulations and experiments	Ivo Konvalina, Aleš Paták, Filip Mika, Ilona Müllerová	PI6-2
Michal Petrov	New Approaches for Reducing Charging Effects– TESCAN S8000	Michal Petrov, Samuel Záchej, Petr Sytař, Rostislav Váňa	PI6-3
Milos Hovorka	Application of Compressive Sensing to Multi-Energy Serial Block-Face SEM	Pavel Potocek, Milos Hovorka, Faysal Boughorbel, Tomas Janocko	PI6-4

17-Electron Spectroscopy, Diffraction and Analytical Microscopy

Wednesday, September 27th 16:30-18:30h, The hotel Lone Reception floor

Presenting Author	Title	Authors	Abstract ID
Christian Ebner	Atomic-level strain response of amorphous TiAl thin film under tension measured by selected area electron diffraction	Christian Ebner, Rohit Sarkar, Jagannathan Rajagopalan, Christian Rentenberger	PI7-1
Michael Stöger - Pollach	Electron beam induced radiation explored by CL and EELS	M. Stöger-Pollach, L. Kachtik, B. Miesenberger, P. Retzl	PI7-2
Andrea Parisini	Thickness and orientation dependence of the average HAADF STEM normalized intensity: a comparison with Monte Carlo and Multislice simulations	A. Parisini, S. Frabboni, G. C. Gazzadi, A. Armigliato, R. Rosa	PI7-3

Session: Life science

L1-Live Cell Imaging and Intracellular Dynamics

Monday, September 25th 16:30-18:30, The hotel Lone Reception floor

Presenting Author	Title	Authors	Abstract ID
Debora Burini	The role of exercise in tenocyte activation at myotendinous junction level	D. Burini, P. Gobbi, E. Falcieri, D. Curzi	PL1-1
Michela Battistelli	Cell damage induced by asbestos-like fibers	Michela Battistelli, Sara Salucci, Michele Mattioli, Michela Cangiotti, Matteo Giordani, Maria Francesca Ottaviani, Elisabetta Falcieri	PL1-2
Ana Z. Stančić	Ex vivo investigation of hemoglobin distribution in erythrocytes using two photon excitation microscopy: insight from an animal erythrocytes	Ana Z. Stančić, Ivana T. Drvenica, Svetlana Jovanić, Katarina Bukara, Vesna Lj. Ilić, Mihajlo D. Rabasović, Dejan V. Pantelić, Brana M. Jelenković, Branko M. Bugarski, Aleksandar J. Krmpot	PL1-3
Rok Romih	CLEM and FIB for studying organisation of Golgi apparatus in urothelium	Samo Hudoklin, Tanja Korpar, Caroline Kizilyaprak, Bruno Humbel, Rok Romih	PL1-4
Süheyla Gonca	Custodiol Versus Blood Cardioplegia, Comparision of Myocardial Tissue Effects in Adult Cardiac Surgery	Süheyla Gonca	PL1-5
Martina Radić	NDPK A and NDPK B – subcellular dynamics and interactions	Martina Radić, Marko Šoštar, Helena Četković, Igor Weber, Neda Slade, Maja Herak Bosnar	PL1-6
Vladimíra Pavlíčková	Novel colchicine-BODIPY conjugates for phototherapy	Vladimíra Pavlíčková, Silvie Rimpelová, Michal Jurášek, Ivana Křížová, Pavel Drašar, Tomáš Ruml	PL1-7
Maja Herak Bosnar	Nucleoside-diphosphate kinase Nme6 in humans and sponges	Helena Četković, Martina Radić, Lucija Ačkar, Maja Herak Bosnar	PL1-8
Youngtaek Kim	Injection molded microfluidic device for providing dynamic stimuli	Youngtaek Kim, Jiyoung Song, Youngguen Lee, Noo Li Jeon	PL1-9

L2-High-Resolution Microscopy in Biological Sciences

Tuesday, September 26th 16:30-18:30h, The hotel Lone Reception floor

Presenting Author	Title	Authors	AbstractID
Igor Golic	Melatonin ameliorates mitochondrial status in leptin-deficient mice heart	A. Stacchiotti, G. Favero, L. Giugno, I. Golic, M. Aleksic, A. Korac, R. Rezzani	PL2-1
Eva Papp	Reconstructing the auditory region of <i>Palorchestes azael</i> using Micro Computed Tomography	Eva Papp, Alannah Pearson, Michael Curry, Julien Louys, Gilbert Price, Ken Aplin, Stephen Wroe	PL2-2
Vlada Philimonenko	Microscopy Centre: Electron Microscopy Core Facility	Vlada Philimonenko, Zuzana Lubovská, Dominik Pinkas, Pavel Hozák	PL2-3
Jelena Danilovic Lukovic	Selenium induces accumulation of lipid droplets in antral follicles of porcine ovaries	Jelena Danilovic Lukovic, Anita Lazarevic, Maja Bogdanovic, Desislava Abadjieva, Milena Atanasova, Gennadiy Boryaev, Elena Kistanova, Aleksandra Korac	PL2-4
Marija Aleksic	Hypothyroidism remodels mitochondrial population in rat brown adipocytes: ultrastructural & stereological study	Marija Aleksic, Igor Golic, Milica Markelic, Aleksandra Jankovic, Sava Masovic, Bato Korac, Aleksandra Korac	PL2-5
Mila Pajevic	Insulin-Induced Appearance Of Bi-Hormonal (Glucagon+ Insulin+) Cells In Rat Pancreatic Islets: Immunofluorescent And Immunogold Studies	Mila Pajevic, Marija Aleksic, Igor Golic, Milica Markelic, Aleksandra Jankovic, Vesna Otasevic, Ana Stancic, Bato Korac, Aleksandra Korac	PL2-6

L3-Structure and Imaging of Biomolecules

Tuesday, September 26th 16:30-18:30h, The hotel Lone Reception floor

Presenting Author	Title	Authors	Abstract ID
Zdenko Gardian	Modular architecture of Photosystem I-Light Harvesting antenna Complex from eustigmatophyte alga, <i>Nannochloropsis oceanica</i>	Zdenko Gardian, David Bina, Radek Litvin	PL3-1
Serap Arbak	Putative effect of exercise on liver in high-fat diet-fed rats	Merve Açikel Elmas, Nilso Atay, Özlem Bingöl Özakpınar, Meltem Kolgazi, Göksel Şener, Feriha Ercan, Serap Arbak	PL3-2
Ozlem Ozbey	Isolation of the chondrocytes and chondroprogenitor/stem cell from human articular cartilage, comparison of the chondrogenic capacity of these two cell lines	O. Ozbey, N. Acar, F. Tepekoy Ozcelik, A. M. Ozenci, S. Koksoy, I. Ustunel	PL3-3
Ferode Karahan Özdemir	The Investigation of Potential Protective Effects of Tetrandrine Against Reproductive Damage Induced by Aroclor 1254 in Male Rats	F. Karahan Özdemir, A. Taşlıdere, İ. Teyyareci Özdemir, F. Karakuş, O. Çiftçi	PL3-4
İ. Teyyareci Özdemir	Investigation of the Protective Effects of Tetrandrine in Aroclor1254 Exposed Liver Tissue	F. Karahan Özdemir, İ. Teyyareci Özdemir, A. Erdoğan, A. Taşlıdere, O. Çiftçi	PL3-5
Hande Yapıslar	The Role of Luzindole in the Antiinflammatory Effect of Melatonin in the Kidney of the Rats with Type 2 Diabetes Mellitus	Hande Yapıslar, Ebru Haciosmanoglu, Turkan Sarioglu	PL3-6
György Vámosi	Assembly of interleukin-2 and -15 receptors during trafficking	Julianna Volkó, Ádám Kenesei, Péter Várnai, Felix Bestvater, Thomas A. Waldmann, Katalin Tóth, György Vámosi	PL3-7

L4-Nanobiology and Nanomedicine

Monday, September 25th 16:30-18:30h, The hotel Lone Reception floor

Presenting Author	Title	Authors	Abstract ID
Laura Calderan	<i>In vivo</i> and <i>in vitro</i> biodistribution of solid lipid nanoparticles	Silvia Mannucci, Federico Boschi, Elisabetta Esposito, Rita Cortesi, Claudio Nastruzzi, Manuela Malatesta, Laura Calderan	PL4-1
Federica Vurro	Biodistribution of different nanocarriers in murine mioblasts	F. Vurro, M. Costanzo, B. Cisterna, F. Boschi, A. Marengo, S. Arpicco, B. Stella, G. Berlier, L. Calderan, M. Malatesta	PL4-2
Petra Peharec Štefanić	Ultrastructural changes in tobacco cells induced by differently coated silver nanoparticles	P. Peharec Štefanić, P. Cvjetko, I. Letofsky-Papst, I. Vinković Vrček, B. Balen	PL4-3
Barbora Kodedova	Nanostructured Titanium Scaffolds as a Biocompatible Material for Bone Regeneration	B. Kodedova, E. Filova, V. Lukasova, V. Blahnova, J. Fojt, L. Joska	PL4-4
Věra Sovková	Platelet Lysate as a Serum Replacement for Skin Cell Culture on Biomimetic PCL Nanofibers	Věra Sovková, Karolína Vocetková, Michala Rampichová, Andrea Míčková, Matej Buzgo, Věra Lukášová, Eva Filová, Alois Nečas, Evžen Amler	PL4-5
Nadia Santo	Toxicological effects of three differently shaped carbon nanomaterials in <i>Daphnia magna</i> : a morphological approach	R. Bacchetta, P. Tremolada, I. Valenti, M. Longhi, D. Maggioni, M. Ascagni, N. Santo	PL4-6

L5-Microscopy in Microbiology, Plant and Environmental Sciences

Tuesday, September 26th 16:30-18:30h, The hotel Lone Reception floor

Presenting Author	Title	Authors	AbstractID
Katalin Solymosi	Peculiar tubuloreticular membrane organization in plastids with secretory function	Anna Skribanek, Adrienn Dobi, Pál Vági, Katalin Solymosi	PL5-1
Goran Kovačević	Ecotoxicological effects of sodium metasilicate on green (<i>Hydra viridissima</i> Pallas, 1766) and brown (<i>Hydra oligactis</i> Pallas, 1766) hydra	Ana Šimičev, Goran Kovačević, Romana Gračan	PL5-2
Goran Kovačević	The effect of quercetin on brown hydras, endosymbiotic and free-living algae	Monika Karin, Valerija Vujčić, Damir Sirovina, Goran Kovačević	PL5-3
Goran Kovačević	The effect of naringenin on hydra – alga symbiosis	Valentina Bartol, Goran Kovačević, Damir Sirovina, Valerija Vujčić	PL5-4
Kamila Hrubanova	Monitoring lipid production in yeast using SEM and Raman spectroscopy	K. Hrubanova, V. Krzyzanek, O. Samek, M. Siler, P. Zemanek, A. Haronikova, I. Marova	PL5-5
Ilinka Pečinar	Analysis of pyretrins in extract of <i>Tanacetum cinerariifolium</i> using Raman spectroscopy	Ilinka Pečinar, Filip Varga, Martina Grdiša, Ivan Šoštarić, Zlatko Šatović, Zora Dajjić Stevanović	PL5-6
Goran Kovačević	Isolated endosymbiotic algae at test: the point of no return?	Goran Kovačević, Martina Ivšić	PL5-7
Kateřina Eliášová	The development of Norway spruce somatic embryos visualized with different microscopic tools	Kateřina Eliášová, Vilém Neděla, Jiří Runštuk, Zuzana Vondráková	PL5-8

L6-Neuroscience and Histopathology

Tuesday, September 26th 16:30-18:30h, The hotel Lone Reception floor

Presenting Author	Title	Authors	Abstract ID
Edi Rođak	A histological analysis of glycogen content in hepatocytes of trefoil factor family 2 and trefoil factor family 3 knock-out mice	Edi Rođak, Kristina Ivić, Tatjana Belovari, Ivana Lovrić, Nikola Bijelić, Mirela Baus Lončar	PL6-1
Ivana Lovrić	Growth plate and trabecular bone histomorphometry in wild-type and TFF3 knock-out mice	Ivana Lovrić, Dunja Stolnik, Nikola Bijelić, Tatjana Belovari, Mirela Baus Lončar	PL6-2
Viviana Kozina	Mast cells of the human foetal testis	Viviana Kozina, Trpimir Goluža, Marina Kos, Davor Ježek	PL6-3
Selenay Furat Rençber	Effect of Resveratrol and Metformin on Ovarian Reserve and Ultrastructure in PCOS	Selenay Furat Rençber, Sema Kurnaz Ozbek, Ceyla Eraldemir, Zehra Sezer, Tugba Kum, Sureyya Ceylan, Elif Guzel Meydanlı	PL6-4
Stefan Wernitznig	Reconstructing a looming sensitive pathway in locusts using serial block-face SEM (SBEM)	Stefan Wernitznig, Armin Zankel, Claire Rind, Susanne Summerauer, Manuela Nikolic, Mariella Sele, Peter Pölt, Gerd Leitinger	PL6-5
Tomas Bily	Zika virus interaction with astrocytes	T. Bily, M. Vancova, M. Palus, D. Ruzek, J. Nebesarova	PL6-6
Goran Kovačević	Morphometrical evaluation of histopathological alterations in freshwater snail <i>Holandriana holandrii</i> exposed to phenol	Maria Špoljar, Jasna Lajtner, Romana Gračan, Martina Ivšić, Blaženka Banjad Ostojić, Ana Miletić, Goran Kovačević	PL6-7
Marie Vancová	Spatial organization of peptidergic axon terminals and myoepithelial cells in salivary glands of tick <i>Ixodes ricinus</i>	M. Vancová, L. Šimo, T. Bílý, J. Nebesářová	PL6-8
Başak Işildar	Histological evaluation of granular dystrophy	İsmail Seçkin, Osman Şevki Arslan, Başak Işildar, Cezmi Doğan, Gülşah Tezcan, Ümit Yaşar Güleser	PL6-9

Birsen Elibol	Therapeutic effect of thymoquinone on amyloid beta-induced neurotoxicity in rats	B. Elibol, T. Aydogan, M. Beker, S. Terzioglu-Usak, U. Kilic	PL6-10
Selma Yilmazer	Beta-Site APP Cleaving Enzyme 1 regulation depends on VDR or PDIA3	Erdoğan Dursun, Selma Yilmazer, İrem L. Atasoy, Merve Alaylıođlu, Esin Candaş, Duygu Gezen-Ak	PL6-11
Başak Işildar	Comparison of different cryopreservation protocols for human umbilical cord as source of mesenchymal stem cells	Başak Işildar, Serbay Özkan, Mahmut Öncül, Zafer Başlar, Semih Kaleli, Mustafa Taşyürekli, Meral Koyutürk	PL6-12
Feriha Ercan	The Acetamipride, a Neonicotinoid Insecticide, Inhibits Cell Proliferation and Induces Apoptosis on Rat Testis	Yağmur Emre Arıcan, Damla Kayalı, Feriha Ercan, Gül Özhan	PL6-13
Feriha Ercan	Effects of combined treatment of bisphosphonate and melatonin on stomach tissue in rats with ovariectomy	Esra Bihter Gürler, Özlem Tuğçe Kaya, Dilek Özbeyli, Feriha Ercan, Berrak Ç. Yeğen	PL6-14
Sevinc Inan	The effects of Trastuzumab and Paclitaxel for metastatic 4T1, MDA-MB231 and MCF-7 breast cancer cell lines	S. Inan, F. Firat, I. Tuđlu	PL6-15
Serap Sirvanci	GABA Immunogold Labeling in the Substantia Nigra Pars Reticulata of Kindled Genetic Absence Epilepsy Rats	Zehra Nur Turgan, Ozlem Tugce Kaya, Tugba Karamahmutoglu, Medine Gülcebi Idrizoglu, Cansu Kandemir, Dilek Akakın, Serap Sirvanci, Filiz Onat	PL6-16

L7-Multidisciplinary Approaches in Natural and Biomedical Sciences

Wednesday, September 27th 16:30-18:30h, The hotel Lone Reception floor

Presenting Author	Title	Authors	Abstract ID
Nikola Bijelić	A method for measuring area and surface-related parameters on microphotographs by using free and open-source image processing software	Nikola Bijelić, Dunja Stolnik, Edi Rodak, Ivana Lovrić, Tatjana Belovari	PL7-1
Manuela Costanzo	Adipogenic effect of mild ozonisation on human adipose-derived adult stem cells	M. Costanzo, F. Carton, G. Conti, E. Solani, G. Tabaracci, V. Covi, M. Malatesta	PL7-2
Pinar Koroglu	New Study on Metformin Action Against Testicular Injury: Prostate Cancer, Diabetes and Diabetes-Cancer Connection	Pinar Koroglu, Omur Karabulut-Bulan, Ismet Burcu Turkyilmaz, Ilknur Bugan, Refiye Yanardag	PL7-3
Mukaddes Esrefogly	The effect of oral administration of shea butter on liver damage caused by lipopolysaccharide-induced sepsis in rats	N. Bayindir, M. Esrefogly, C. Ercan, F. Akbas, E. Kilic	PL7-4
Goran Kovačević	Effects of UVB Radiation and Norflurazon on Green and Brown Hydra	Goran Kovačević, Petra Korać, Katarina Caput Mihalić, Ana Matijević	PL7-5
Manuel Belli	Ultrastructural analysis of <i>in vitro</i> matured granulosa cells under treatment with the fungicide mancozeb	Manuel Belli, Orlando Donfrancesco, Maria Grazia Palmerini, Selenia Miglietta, Stefania Annarita Nottola, Sandra Cecconi, Serena Bianchi, Sevastiani Antonouli, Giuseppe Familiari, Guido Macchiarelli	PL7-6
T. Kotil	Evaluation of tumorigenic proteins in stanozolol treated rat kidney	T. Kotil, Ç. Sevim, M. Kara, E. Özçağlı, B. Alpertunga	PL7-7
Ivana Restović	Spatiotemporal Expression Pattern of the Neuronal Markers in the Developing Human Spinal Cord	Ivana Restović, Ivana Bočina, Darko Kero, Katarina Vukojević, Natalija Filipović, Mirna Saraga-Babić	PL7-8

Elif Taslidere	The effects of pentoxifylline and caffeic acid phenethyl ester in the treatment of D-galactosamine-induced renal injury in rats	Elif Taslidere, Mukaddes Esrefoglu, Nigar Vardi, Merve Gökşin Karaaslan	PL7-9
Tok Olgu Enis	Serial passaging effects the carcinogenicity, stemness and speroid formation of HepG2 cells, a hepatocellular carcinoma cell line	Tok O. E., Aktas R. G.	PL7-10
Veronika Blahnova	Collagen scaffold for human mesenchymal stem cells osteogenesis induction	Veronika Blahnova, Eva Filova, Veronika Svachova, Martin Trunec, Lucy Vojtova, Evzen Amler	PL7-11
Vera Lukasova	Cell-free scaffolds functionalized with bioactive compounds for treatment of bone defects	Vera Lukasova, Michala Rampichova, Matej Buzgo, Veronika Blahnova, Eva Filová, Evzen Amler	PL7-12
Nataša Nestorović	Daidzein does not fully reverse changes of pituitary castration cells in rat: immunohistochemical and stereological study	Nestorović Nataša, Svetlana Trifunović, Milica Manojlović-Stojanoski, Ivana Jarić, Nataša Ristić, Branko Filipović, Branka Šošić-Jurjević, Verica Milošević	PL7-13
Jana Nebesarova	The preparation of biological objects for 3D scanning electron microscopy	Jana Nebesarova, Marie Vancova, Petra Masarova, Jiri Vanecek	PL7-14
Alice Nodari	Ozone treatment induces antioxidant stress response through Keap1/Nrf2 dependent pathway	A. Nodari, M. Galiè, F. Boschi, V. Covi, G. Tabaracci, M. Malatesta, M. Costanzo	PL7-15
Isidora Protic	Hypothyroidism Induces Maturation Arrest of Spermatogenesis in Adult Rat	I. Protic, I. Golic, M. Aleksic, V. Otasevic, A. Korac, I. Protic	PL7-16
Vesna Babić - Ivančić	Microscopy in Urolithiasis Research	V. Babić-Ivančić, M. Dutour Sikirić, A. Stanković, S. Šafranko	PL7-17
Melek Ozturk	The effects of dipeptidyl peptidase-4 inhibitor treatment on liver regeneration in STZ-diabetic rats.	Melek Ozturk, Fatma Kaya Dagistanli, Gamze Argun Kurum, A. Seda Akdemir, Merve Anapali, Gamze Tanriverdi	PL7-18
Barbara Dariš	Harmful effects of dimethyl sulphoxide on WM-266-4 melanoma cell line	Barbara Dariš, Polonca Ferk, Željko Knez, Saška Lipovšek	PL7-19

Karolína Vocetkova	Comparison of fiber fabrication techniques in tissue engineering	Karolina Vocetkova, Vera Sovkova, Matej Buzgo, Michala Rampichova, Andrea Mickova, Vera Lukasova, Evzen Amler	PL7-20
Melek Ozturk	Regulation of pancreatic beta cell regeneration by nicotinamide in neonatal streptozotocin diabetic rats	Fatma Kaya Dagıstanlı, Melek Ozturk	PL7-21
Onur Ersoy	Evaluation of INSL3 in diabetic testicular tissue by administered JNK inhibition	Onur Ersoy, Gulnur Kizilay, Sinasi Bayram, Yeliz Bozdemir Donmez	PL7-22
Gulnur Kizilay	Effect of royal jelly on apoptosis, proliferation and immunoreactivity of INSL3 in rat diabetic testes tissue	Sirin Yavas, Gulnur Kizilay, Onur Ersoy, Sinasi Bayram	PL7-23
Silvie Rimpelová	Fluorescent conjugates of natural products with anticancer potential for imaging and phototherapy applications	Silvie Rimpelová, Michal Jurášek, Vladimíra Pavlíčková, Lucie Peterková, Eva Kmoníčková, Pavel B. Drašar, Tomáš Ruml	PL7-24
Daniele Spinozzi	Postmortem evaluation of wound healing after Descemet membrane endothelial keratoplasty (DMEK)	Daniele Spinozzi, Thomas M. Müller, Itay Lavy, Robert M. Verdijk, Marieke Bruinsma, Jack Parker, Perry S. Binder, Gerrit R. J. Melles	PL7-25
Goran Kovačević	The use of microscope in school biology teaching	Mirko Ruščić, Antonio Vidović, Goran Kovačević, Damir Sirovina	PL7-26
Yesim Uz	Protective Effects of Curcumin Against Methotrexate-Induced Nephrotoxicity in Rats: Role of Nuclear Factor-Kappa B Pathway	Yesim Uz, Duygu Uzun, Ozlem Delen, Leyla Kilinc	PL7-27

Session: Materials

M1-Thin Films, Coatings, Surfaces and Interfaces

Wednesday, September 27th 16:30-18:30h, The hotel Lone Reception floor

Presenting Author	Title	Authors	Abstract ID
Alexander J. G. Lunt	Microscale characterisation of the next-generation of Nb ₃ Sn superconducting thin films for radio frequency cavity applications	Alexander J. G. Lunt, Katsiaryna Ilyina, Guillaume J Rosaz, Josep Busom-Descarrega, Marco Bonura, Carmine Senatore, Enrico Salvati, Alexander M. Korsunsky, Walter Venturini-Delsolaro, Floriane Leaux, Mauro Taborelli	PM1-1
Alessio Impagnatiello	EM analysis to improve the response of tungsten trioxide as gas sensor: SEM, EBSD and TEM analyses versus sensors response	A. Impagnatiello, A. Campos, L. Patout, C. Dominici, T. Fiorido, M. Bendahan, K. Aguir, C. Alfonso, A. Charaï	PM1-2
Vilma Bursikova	Mechanical properties of magnetron sputtered W-B-C coatings	Bursikova Vilma, Jiri Bursik, Lukas Zabransky, Saeed Mirzaei, Mustafa Alishahi, Pavel Soucek, Petr Vasina, Ivo Kubena	PM1-3
Mária Čaplovičová	Microstructural characterization of TaAlN coatings	Mária Čaplovičová, Marian Veselý, Mário Kotlár, Viliam Vretenár, Lubomír Vančo, Peter Vogrinčič, Milan Mikula, Tomáš Roch, Satrapinsky	PM1-4
Darko Landek	Comparison of measuring methods for determination of thickness of the multilayer TiN/TiCN PACVD coating deposited on cold work tool steel X153CrMoV12	Darko Landek, Suzana Jakovljević, Saša Kovačić	PM1-5
Zsolt Fogarassy	TEM investigation of magnetron sputtered TiC, TiC/Ti, Ti(C) thin films	Zsolt Fogarassy, Nikolett Oláh, Ildikó Cora, Zsolt Endre Horváth, Tamás Csanádi, Katalin Balázsí	PM1-6

Krunoslav Juraić	Barium titanate thin films deposition by spray pyrolysis	Krunoslav Juraić, Marco Deluca, Robert Wimmer-Teubenbacher	PM1-7
Jiri Buršík	Electron microscopy of Ti/Ni multilayers prepared by magnetron sputtering	J. Buršík, V. Buršíková, P. Souček, P. Vašina	PM1-8
Vesna Ribic	TEM study of basal-plane inversion boundaries in Sn-Doped ZnO	Vesna Ribic, Aleksander Recnik, Goran Drazic, Matej Komelj, Anton Kokalj, Mateja Podlogar, Nina Daneu, Tina Radosevic, Danijela Lukovic-Golic, Zorica Brankovic, Slavko Bernik, Goran Brankovic	PM1-9
Georg Haberfehlner	Measuring buried interface roughness by electron tomography	Georg Haberfehlner, Evelin Fisslthaler, Wolfgang Jäger, Gerald Kothleitner	PM1-10
Ante Bilušić	Fabrication and characterization of PMN-PT based high-frequency linear ultrasound array	A. Kabaši, T. Čurković, T. Čakarić, B. Malić, M. Budimir, A. Bilušić	PM1-11
Ivana Panžić	Zinc oxide for photovoltaic applications	Ivana Panžić, Jelena Macan, Krunoslav Juraić, Krešimir Salamon, Andreja Gajović	PM1-12
Luděk Hromádko	Study of crystallization process in GexS1-x glasses by microscopic techniques	Veronika Podzemná	PM1-13

M2- Polymers, Organic and Soft Materials

Tuesday, September 26th 16:30-18:30h, The hotel Lone Reception floor

Presenting Author	Title	Authors	Abstract ID
Stepan Boichenko	Laser-scanning confocal fluorescence microscopy using elliptically polarized cylindrical vector excitation beam: the visualization of arbitrarily oriented single quantum emitters on planar surfaces	Stepan Boichenko	PM2-1

M3-Materials in Geology, Mineralogy and Archaeology, Ceramics and Composites

Tuesday, September 26th 16:30-18:30h, The hotel Lone Reception floor

Presenting Author	Title	Authors	Abstract ID
Nadežda Stanković	Structural characterization and luminescence properties of Y ₂ MoO ₆ powders doped with various rare earth elements (Eu ³⁺ , Sm ³⁺ , Yb ³⁺ /Er ³⁺)	Nadežda Stanković, Marko Nikolić, Branislav Jelenković, Nina Daneu, Branko Matović	PM3-1
Liudmyla Masliuk	Defects in Orthorhombic (Mo,V)O _x Mixed Oxide – from local to extended	Liudmyla Masliuk, Marc Heggen, Annette Trunschke, Klaus Hermann, Marc G. Willinger, Robert Schlögl, Thomas Lunkenbein	PM3-2
Mario Matošević	Microstructural characteristics of staurolite from mica schist of the Drava depression basement (Croatia)	M. Matošević, S. Šuica	PM3-3
Snezana Vucetic	Scanning Electron Microscopy – original painting or not? Analysis of the 18th century portrait color layers	Snezana Vucetic, John Milan van der Bergh, Bojan Miljevic, Helena Hirszenberger, Jonjaua Ranogajec	PM3-4

Alessandro Benedetti	A look into the past: a Focused Ion Beam study of the ultrastructure of fossil plant cuticles	Alessandro Benedetti, Jose B. Diez, Luis M Sender, Ignacio Escapa, Roberto Cuneo	PM3-5
Zoran Samardžija	EBSD study of twins in SnO ₂ -cassiterite	Zoran Samardžija, Sara Tominc, Nina Daneu, Aleksander Rečnik	PM3-6
Gregor Kapun	Three-dimensional microstructural evolution during sintering of Ni-SDC cermets for SOFC anode reconstructed by FIB-SEM nanotomography	Gregor Kapun, Marjan Marinšek, Tina Skalar, Endre Majorovits, Franci Merzel, Sašo Šturm, Miran Gaberšček	PM3-7
Nenad Tomašić	Occurrence of clinozoisite-epidote minerals in the metamorphic suite and granitic intrusions of the Dunje area, South Macedonia	N. Tomašić, S. Strmić Palinkaš, A. Čobić, B. Boev, I. Boev, V. Bermanec	PM3-8
Arkadiusz Gąsiński	The Mineralogy and Texture of Shales from Palaeozoic Baltic Basin (Northern Poland) - data from SEM/EDS analysis	Arkadiusz Gąsiński, Arkadiusz Gąsiński	PM3-9

M4-Metals, Alloys and Intermetallics

Wednesday, September 27th 16:30-18:30h, The hotel Lone Reception floor

Presenting Author	Title	Authors	Abstract ID
Frano Kozina	Microstructure development in as cast Al-Mg-Li alloy	F.Kozina, Z. Zovko Brodarac, M. Petrič	PM4-1
Stephan Pfeiffer	Influence of neutron irradiation on the microstructure and magnetic properties of Nb ₃ Sn superconductors	S. Pfeiffer, J. Bernardi, M. Stöger-Pollach, T. Baumgartner, M. Eisterer, J. Hecher, A. Ballarino, L. Bottura, C. Scheuerlein	PM4-2
Christoffer Müller	Electron microscopy analysis of flash-annealed CuZr based bulk metallic glass	Christoffer Müller, Christoph Gammer, Konrad Kosiba, Simon Pauly, Christian Rentenberger	PM4-3
Zoltán Dankházi	Systematic study of structural changes in the vicinity of indentation marks with HR-EBSD	Zoltán Dankházi, Szilvia Kalácska, Péter Dusán Ispánovity, István Groma	PM4-4
Cristoffer Gspan	Investigation of domains in Pr ₂ NiO ₄ +delta by transmission electron microscopy	C. Gspan, E. Bucher, A. Egger, N. Schrödl, C. Berger, M. Dienstleder, S. Mitsche, W. Sitte, W. Grogger	PM4-5
Anna Knaislová	Microstructure of rapidly solidified aluminium powder alloys compacted by Spark Plasma Sintering	A. Knaislová, A. Michalcová, I. Marek	PM4-6
Martin Bystriansky	On-line monitoring of steel microstructure changes within tensile testing	Martin Bystriansky, Ludmila Kucerova, Jan Prochazka	PM4-7
Andrea Školáková	Study on the kinetics of the intermediary phase formation in Ni-Al system	A. Školáková, P. Novák	PM4-8
Alena Michalcová	Microstructure evolution of AlFe ₇ Mn ₄ alloy during its preparation by powder metallurgy	A. Michalcová, I. Marek, A. Knaislová	PM4-9

Dragan Rajnovic	Influence of low temperature on the microstructure and fracture mode of unalloyed ADI material	Dragan Rajnovic, Olivera Eric Cekic, Leposava Sidjanin, Sebastian Balos, Danka Labus Zlatanovic, Miroslav Dramicanin, Petar Janjatovic	PM4-10
Igor Lapsker	Deformation and Fracture of Copper and Silicon During Indentation. Acoustic Emission Measurements	Vladislav Perfilyev, Alexey Moshkovich, Igor Lapsker, Lev Rapoport	PM4-11
Jan Michalička	Novel STEM-EDX Analysis of Radiation-Induced Precipitates in a Self-Ion Irradiated Cold-Worked 316 Austenitic Stainless Steel Used for PWR Baffle-Bolts	Jan Michalička, Zhijie Jiao, Gary Was	PM4-12

M5-Nanostructures and Materials for Nanotechnology and other Applications

Monday, September 25th 16:30-18:30h, The hotel Lone Reception floor

Presenting Author	Title	Authors	Abstract ID
Marcello Marelli	Structural Characterization of Carbon-Supported Bimetallic AuCu Nanoparticles derived from Metal Vapors	M. Marelli, A. Jouve, A. Villa, L. Prati, V. Dal Santo, A. Balerna, C. Evangelisti	PM5-1
Pravin Jagdale	Microscopic study on carbon fibre surface modification for tuning the plasma treatment parameters	Pravin Jagdale, Aamer Abbas Khan, Dimitrios Dragatogiannis, Stavros Anagnou, Mauro Raimondo, Kostas Mpalias, Zhenxue Zhang, Iryna Husarova, Yevheniia Tishchenko, Pietro Mandracci, Hanshan Dong, Alberto Tagliaferro, Costas Charitidis	PM5-2
Michal Horák	Babinet principle for plasmonic antennas: complementarity and differences	M. Horák, V. Křápek, M. Hrtoň, O. Metelka, T. Šamořil, M. Stöger-Pollach, A. Paták, T. Šikola	PM5-3
Mikk Vahtrus	Electron beam effect on the mechanical properties of alumina and silica coated metal nanowires	M. Vahtrus, B. Polyakov, M. Mets, M. Antsov, S. Oras, A. Tarre, J. Aarik, R. Lõhmus, S. Vlassov	PM5-3
Nebojša D. Nikolić	The comparative XRD and SEM analysis of electrochemically produced silver nanostructures	Nebojša D. Nikolić, Ljiljana Avramović, Miroslav M. Pavlović, Vesna M. Maksimović, Marina Vuković, Jasmina S. Stevanović, Mile Bugarin	PM5-4
Vesna M. Maksimović	Role of hydrogen in creating morphology of nanostructured NiCo alloy powder particles	Vesna M. Maksimović, Vladan B. Kusigerski, Milovan M. Stoilković, Jelena R. Maletaškić, Nebojša D. Nikolić	PM5-5
Julio Ramirez - Castellanos	Synthesis of magnetic α -Fe ₂ O ₃ -carbon allotropes nanocomposites	P. Almodovar, C. Díaz-Guerra Viejo, J. Ramirez-Castellanos, J. Piqueras, Jose M. Gonzalez-Calbet	PM5-6

Jiri Buršík	Analytical electron microscopy of submicrocrystalline skutterudite with addition of metallic borides	J. Buršík, G. Rogl, P. Rogl	PM5-7
Marina Parras	The role of oxygen non stoichiometry in the CO oxidation activity of BaFeO _{3,8}	M. Parras, A. Varela, J.M. González-Calbet, M. Hernando, R. Cortés, Achraf el Hadri, Eloy del Río, Juan C. Hernández, J.J. Delgado, J.J. Calvino, J. García-García	PM5-8
Aurea Varela	Micro and Nanosized 4H-SrMnO ₃ : Structural and Physical Properties.	A. Varela, M. Parras, J. M. González-Calbet, A. Torres-Pardo, I. N. González-Jiménez, M. García-Hernández, A. de Andrés, E. Clement	PM5-9
Walid Hetaba	EELS simulations of IrO _x catalysts for water splitting	Walid Hetaba, Elena Willinger, Marc-Georg Willinger, Robert Schlögl	PM5-10
Janez Zavašnik	EM investigation of DC jet plasma grown Cu-oxide nanowires for amine detection	Janez Zavašnik, Harinarayanan Puliyalil, Johannes Gruenwald, Gregor Filipič	PM5-11
Kristina Kučanda	Assemblies of Sub-10 nm Nanoparticles - Imaged by SEM in Impeding Conditions	Kristina Kučanda, Rafal Klajn	PM5-12
Rosaria Brescia	Colloidal synthesis of metastable AuCuS phase nanocrystals and in-situ TEM heating study of their transformation	Muhammad Imran, Liberato Manna, Rosaria Brescia	PM5-13
Gerardo Algara - Siller	Imaging zeolite NaA	Gerardo Algara-Siller, Thomas Lunkenbein, Robert Schlögl, Marc G. Willinger	PM5-14

Ezra J. Olivier	<i>In situ</i> characterization of M@Co ₃ O ₄ (M = NiFe ₂ O ₄ , ZnFe ₂ O ₄) core-shell nanoparticles for the Fischer-Tropsch Synthesis	E.J. Olivier, A. Govender, W. Barnard, R. P. Forbes, E. Van Steen, J. H. Neethling	PM5-15
Eliška Mikmeková	Examination of 2D crystals in a low voltage SEM/STEM	Eliška Mikmeková, Luděk Frank, Josef Polčák, Aleš Paták, Michael Lejeune	PM5-16
Milena Marinović - Cincović	Structure, morphology and kinetic analysis of Gd ₂ Ti ₂ O ₇ nanopowders	Milena Marinović-Cincović, Bojan Janković, Bojana Miličević, Slavica J. Porobić, Miroslav D. Dramičanin	PM5-17
Bojana Miličević	Characterization of Nd ³⁺ -doped TiO ₂ nanopowders synthesized by hydrolytic sol-gel method: structural, morphological and optical properties	Bojana Miličević, Radenka Krsmanović Whiffen, Vesna Đorđević, Andreja Gajović, Barbora Bartova, Damien Bregiroux, Miroslav D. Dramičanin	PM5-18
Wibke Frandsen	TiO ₂ modified by Sm and catechol for photovoltaic use	W. Frandsen, M. Willinger, B. Miličević, M. Dramičanin, I. Padžić, M. Plodinec, A. Gajović	PM5-19

M6-Semiconductor Materials and Devices

Tuesday, September 26th 16:30-18:30h, The hotel Lone Reception floor

Presenting Author	Title	Authors	Abstract ID
Xing Huang	<i>In-Situ</i> Formation of Crystallographically-Oriented Semiconductor Nanowire Arrays via Selective Vaporization for High-Performance Optoelectronic Applications	Xing Huang, Yongqiang Yu, Travis Jones, Hua Fan, Lei Wang, Jing Xia, Zhujun Wang, Lidong Shao, Xiangmin Meng, Marc Willinger	PM6-1
Ildikó Cora	TEM study of the as-deposited and annealed Ga ₂ O ₃ films grown by vapor phase epitaxy	Ildikó Cora, Francesco Mezzadri, Francesco Boschi, Matteo Bosi, Maria Čaplovičová, Gianluca Calestani, István Dódony, Béla Pécz, Roberto Fornari	PM6-2
György Z. Radnóczy	STEM study of NiSi ₂ /Si interface at inclusion boundaries	György Z. Radnóczy, Daniel Knez, Ferdinand Hofer, Nikolaos Frangis, Nikolaos Vouroutzis, John Stoemenos, Béla Pécz	PM6-3
Daniel Meljanac	Structural investigation of nanocrystalline ZnO:Al thin films deposited by PLD in RF excited oxygen atmosphere	Daniel Meljanac, Krunoslav Juraić, Davor Gracin, Milivoj Plodinec, Nikša Krstulović, Krešimir Salamon, Hrvoje Skenderović, Iva Šrut Rakić, Sigrid Bernstorff	PM6-4
Ildikó Cora	Structural study of Mg- and Ga-doped ZnO thin films grown by atomic layer deposition	Ildikó Cora, Zsófia Baji, Zoltán Szabó, Aleksander Rečnik, Zsolt Fogarassy, Csaba Dücső, Béla Pécz, Zsolt Endre Horváth	PM6-5
Ildikó Cora	TEM study of heterostructures of AlN on epitaxial graphene	Ildikó Cora, Anelia Kakanakova-Georgieva, Béla Pécz, Rositsa Yakimova, Filippo Giannazzo	PM6-6
Vesna Đorđević	Effects of Li ⁺ co-doping on Eu ³⁺ activated TiO ₂ anatase nanoparticles	Vesna Đorđević, Bojana Milićević, Jelena Papan, Goran Dražić, Miroslav D. Dramićanin	PM6-7
Georg Haberfehlner	Quantitative Analysis of internal interfaces - Structural and quantitative analysis via high resolution STEM	Evelin Fisslthaler, Christian Gspan, Georg Haberfehlner, Werner Grogger	PM6-8

Julio Ramirez - Castellanos	Atomically resolved structure of luminescent ZnIn ₂ O _{3+k}	J. García-Fernández, A. Torres-Pardo, J. Ramirez-Castellanos, A. Cremades, J. Piqueras, Jose M. González-Calbet	PM6-9
Lucia Spasevski	Wide bandgap AlGa _N semiconductors: doping and polarity	Lucia Spasevski, Robert Martin, Paul Edwards, Gunnar Kusch, Pietro Pampili, Vitaly Zubialevich, Peter Parbrook, Van Duc Dinh	PM6-10

M7-Biomaterials and Biosensors

Monday, September 25th 16:30-18:30h, The hotel Lone Reception floor

Presenting Author	Title	Authors	Abstract ID
Ivana Cvijović - Alagić	Fractographic analysis of biomedical Ti-based alloys with acicular microstructures	Ivana Cvijović-Alagić, Zorica Cvijović, Nenad Gubelj, Marko Rakin	PM7-1
Egon Rešetar	Structural investigation of waste biomass-derived carbon for bioelectrocatalytic applications	Egon Rešetar, Milivoj Plodinec, Stanislav Kurajica, Damir Iveković	PM7-2
Viktoria K. Kís	Electron and neutron diffraction based PDF analysis of bioactive glasses	Viktoria K. Kís, Margit Fábíán, János L. Lábár, Zsolt Kovács	PM7-3
Mislav Mustapić	Novel Method of Drug Delivery System	Mislav Mustapić, Suzana Šegota, Shahriar Al Hossain, Boris Martinac	PM7-4
Annamária Dobrádi	Microstructure of plasma sprayed bioactive coatings	Annamária Dobrádi, Kristóf Kovács	PM7-5