

All Schools			
09:00-11:00	<p>Welcome - S. Logothetidis Nanotechnology Lab LTFN, AUTH, Greece S. Logothetidis Nanotechnology Lab LTFN, AUTH, Greece Nanotechnology and Applications and short discussion with the participants</p>		
11:00-11:30	Coffee Break		
11:30-13:30	School 1	School 2	School 3
11:30-12:30	S. Kassavetis Nanotechnology Lab LTFN, AUTH, Greece	K. Andreopoulou University of Patras, Greece	M. Pitou Chemistry Dept. AUTH, Greece
12:30-13:30	Plasmonic Thin films growth and optical characterisation	Organic and Polymer materials for organic electronics: Design and Synthetic aspects	Intelligent short protein regions for scaffold creation
13:30-15:00	Lunch Break		
	School 1	School 2	School 3
15:00-16:00	F. De Angelis Italian Institute of Technology, Italy		
16:00-17:00	Hybrid interfaces between nanosensors and living cells		
17:00-17:30	Coffee Break		
	School 1	School 2	School 3
17:30-19:30	N. Pliatsikas Physics Department, AUTH, Greece Surface chemical analysis by electron spectroscopy techniques: XPS/AES, SAM/Topographic XPS	R. Silva University of Surrey, UK The Design of Nanoscale Structures in Optimising Organic Solar Cells	D. Koutsouras IMEC, The Netherlands Introduction to Organic Bioelectronics
19:30-20:30	ISSON23 Poster Session		

All Schools			
09:00-10:00	F. Biscarini		
10:00-11:00	Italian Institute of Technology/University of Modena and Reggio Emilia, Italy Organic Bioelectronics		
11:00-11:30	Coffee Break		
11:30-13:30	School 1 (Crystal)	School 2 & School 3 (Timber Hall I)	
11:30-12:30	K. Sarakinos University of Helsinki, Finland	D. Georgiadou University of Southampton, UK	
12:30-13:30	Vapor-deposited inorganic thin films	Brain-Inspired Next Generation Optoelectronics	
13:30-15:00	Lunch Break		
15:00-17:00	School 1 (Crystal)	School 2 (Timber Hall I)	School 3 (Timber Hall II)
15:00-16:00	R. Arenal University of Zaragoza, Spain	S. Jenatsch Fluxim AG, Switzerland	T. Mitsiadis University of Zurich, Switzerland
16:00-17:00	Studies of Nanomaterials at the Local Scale: Principle and Applications of Electron Energy Loss Spectroscopy (EELS) in a TEM	PV and OLED performance by means of advanced characterization and simulation A. Laskarakis, Nanotechnology Lab LTFN, AUTH, Greece Intelligent Nanomanufacturing of Organic Electronics and In-Line Metrology for Quality Control	Trends in modern dentistry
17:00-17:30	Coffee Break		
17:30-19:30	Demonstration of Confocal Microscopy Technique OLYMPUS		



Musicode School	
09:00-10:00	D. Campagna
10:00-11:00	ESTECO SpA, Italy Organize and streamline modeling workflows with the help of the BPMN standard
11:00-11:30	Coffee Break
11:30-13:30	All Schools
11:30-12:30	O. M. Roscioni Goldbeck Consulting, UK All you need to know about Molecular Dynamics simulations
12:30-13:30	V. Harmandaris The Cyprus Institute, Cyprus In-silico Design of Soft Matter via Multi-scale Simulations and ML Algorithms: From Electrons to the Macroscopic Properties
13:30-15:00	Lunch Break
15:00-17:00	All Schools
15:00-16:00	J. Friis SINTEF, Norway Introduction to ontologies and how they can be used for data documentation and semantic interoperability
16:00-17:00	A. Kneer TinniT Technologies GmbH, Germany Water from Fog: Prediction of the Collection Efficiency of Fiber Network Fog Water Collectors

	School 1	School 2	School 3
9:00-11:00	V. Koutsos University of Edinburgh, UK Atomic Force Microscopy: Principles and Applications	G. Deligeorgis Foundation for Research and Technology-Hellas (FORTH), Institute of Electronic Structure and Laser (IESL) Microelectornics basic principles and future	Y. Missirlis Lab of Biomechanics & Biomedical Engineering, University of Patras, Greece Introduction to Bioreactors for Tissue Engineering
11:00-11:30	<i>Coffee Break</i>		
	All Schools		
11:30-13:30	I. Feitshans European Scientific Institute, France Global Health Impacts of Nanotechnology Law for Scientists Solutions that Avoid Liability		
13:30-15:00	<i>Lunch Break</i>		
	All Schools		
15:00-16:00	Closing Remarks		



P1	<p>Reliability Performance of Metallization Materials for Application in Nanostructures K. Weide-Zaage¹, T. Gao¹, V. Hein² ¹IMS-RESRI Leibniz University Hannover Appelstr.4 30167 Hannover, Germany ²X-FAB Global Services GmbH Haarbergstr. 67 99097 Erfurt, Germany</p>
P2	<p>Fatty acid – functionalized cellulose nanocomposites for vat photopolymerization M. Maturi¹, C. Spanu¹, N. Fernàndez-Delgado², S. I. Molina², M. Comes Franchini¹, E. Locatelli^{1,*}, A. Sanz de Leòn^{2,*} ¹Department of Industrial Chemistry "Toso Montanari", University of Bologna, Viale Risorgimento 4, 40136 Bologna, Italy ²Department of Materials Science, Metallurgical Engineering and Inorganic Chemistry, I. M. y Q. I., IMEYMAT, Science Faculty, University of Cádiz, Spain</p>
P3	<p>Dispersibility and Self-Assembly of Graphene Oxide – M13 Bacteriophage Aerogels K. Stokes¹, P. Passaretti², Y. Sun¹, H. White³, P. Goldberg Oppenheimer¹ ¹. School of Chemical Engineering, University of Birmingham, B15 2TT, UK ². Institute of Cancer and Genomic Sciences, University of Birmingham, B15 2TT ³. BAE Systems – Air Sector, Buckingham House, FPC 267, Filton, Bristol, UK</p>
P4	<p>"Bottom-Up and "Top-Down" Approaches for the Fabrication of Nanostructured Surfaces with Sensing Applications Colniță A.¹, Marconi D.¹, Brezeștean I.¹, Dina, N.E.¹, Calborean, A.¹, Barbu-Tudoran L.^{1,2}, Turcu I.¹ ¹Molecular and Biomolecular Physics Department, National Institute for Research and Development of Isotopic and Molecular Technologies Romania ²Electron Microscopy Centre, Faculty of Biology and Geology, Babes-Bolyai University, 44 Republicii St., 400015 Cluj-Napoca, Romania</p>
P5	<p>Correlations between synthesis conditions of CsPbBr₃ perovskite and its properties U. Malecka[*], A. Woyciechowska, M. Kędziora, K. Łempicka-Mirek, P. Morawiak², W. Piecek², Szczytko J., Piętko B. Institute of Experimental Physics, Faculty of Physics, University of Warsaw, Poland ². Institute of Applied Physics, Military University of Technology, Warsaw, Poland</p>
P6	<p>The black, the thin, and the porous: carbonization of polysaccharide self-standing films for highly selective gas separation membranes G. Trentini^{1,2}, A. Gaiardo², M. Valt², M. Scarpa³, S. Krik¹, L. Petti¹ ¹ Sensing Technologies Lab, Faculty of Engineering, Free University of Bozen-Bolzano, Piazza Domenicani 3, Bolzano 39100, Italy ²MNF-Micro Nano Facility Unit, Sensors and Devices Center, Bruno Kessler Foundation, Via Sommarive 18, Trento 38123, Italy ³Laboratory of Nanoscience, Department of Physics, University of Trento Via Sommarive 4,38123 Trento, Italy</p>
P7	<p>Nanotechnology to monitor the SERS response of Cojocna salt lake waters from Transylvania Molnár Cs.^{*1,3}, Drigla T. D.², Cîntă Pînzaru S.^{2,3} ¹ National Institute for Research and Development of Isotopic and Molecular Technologies, 67-103 Donath, 400293 Cluj-Napoca, Romania ²Institute for Research, Development and Innovation in Applied Natural Sciences, Babes-Bolyai University, Fantanele 30, Cluj-Napoca, Romania ³ Biomolecular Physics Department, Babeş–Bolyai University, Kogălniceanu 1, 400084, Cluj Napoca, Romania</p>
P8	<p>Silver nanowires as materials with multifunctional applications Lech A.[*], Grobelny J., Celichowski G., Department of Materials Technology and Chemistry, Faculty of Chemistry, University of Lodz, Pomorska St. 163, 90-236 Lodz, Poland</p>
P9	<p>3D silver metallized nanotrenches and heterostructured ZnO@Ag hybrid substrates used as a highly sensitive and flexible SERS detection platform Brezeștean I.A.¹, Marconi D.¹, Suci M.^{1,2}, Dina N.E.¹, Turcu I.¹, Colniță A.¹ ¹Department of Molecular and Biomolecular Physics, National Institute for Research and Development of Isotopic and Molecular Technologies, , Romania ²Electron Microscopy Centre, Faculty of Biology and Geology, Babes-Bolyai University, 44 Republicii Str., 400015 Cluj-Napoca, Romania</p>

P10	<p>Nanostructured ZnO films used as surface enhanced fluorescence substrates A. Falamas¹, I. Marica¹, F. Nekvapil^{1,2}, M. Stefan¹, N. D. Sankir³, A.M. Rostas¹, C. Farcau^{1,4} ¹<i>Molecular and Biomolecular Physics Department, National Institute for Research and Development of Isotopic and Molecular Technologies, 67-103 Donat, 400293, Cluj-Napoca, Romania</i> ²<i>Ioan Ursu Institute, Babeş-Bolyai University, 1 Kogalniceanu, 400084 Cluj-Napoca, Romania</i> ³<i>Micro and Nanotechnology Graduate Program, TOBB University of Economics and Technology, Sogutozu Caddesi No 43 Sogutozu, 06560 Ankara, Turkey</i> ⁴<i>Institute for Interdisciplinary Research in Nano-Bio-Sciences, Babes-Bolyai University, 42 T. Laurian, 400271, Cluj-Napoca, Romania</i></p>
P11	<p>2D-Material Based Plasmonic Devices for Infrared Spectroscopy of Biological Samples Yu-Wei Kang^{1,3}, Peter Gardner^{2,3}, Tim Echtermeyer^{1,3,4} ¹<i>Department of Electrical & Electronic Engineering, The University of Manchester, United Kingdom</i> ²<i>Department of Chemical Engineering, The University of Manchester, United Kingdom</i> ³<i>Photon Science Institute, University of Manchester, United Kingdom</i> ⁴<i>National Graphene Institute, University of Manchester, United Kingdom</i></p>
P12	<p>Black Phosphorus based field-effect transistors Ni and NiCr alloy as metal contacts in Black Phosphorus field-effect transistors L. Viscardi^{1,2}, K. Intonti^{1,2}, A. Kumar¹, E. Faella^{1,2}, A. Pelella³, F. Giubileo², S. Sleziona⁴, O. Kharsah⁴, M. Schleberger⁴, and A. Di Bartolomeo^{1,2} ¹<i>Department of Physics "E.R. Caianiello", University of Salerno Via Giovanni Paolo II 132, Fisciano, 84084, Italy</i> ²<i>CNR-SPIN Via Giovanni Paolo II 132, Fisciano, 84084, Italy</i> ³<i>Department of Science and Technology, University of Sannio Via de Sanctis, Benevento, 82100, Italy</i> ⁴<i>Faculty of Physics and CENIDE, University of Duisburg-Essen Lotharstrasse 1, Duisburg, 47057, Germany</i></p>
P13	<p>Investigation of the photo-response of few-layer ReSe2 field effect transistors at different pressures K. Intonti^{1,2}, E. Faella^{1,2}, L. Viscardi^{1,2}, A. Kumar¹, O. Durante^{1,2}, F. Giubileo², M. Passacantando³, H. T. Lam⁴, A. Konstantinos⁴, M. Craciun⁴, S. Russo⁴ and A. Di Bartolomeo^{1,2,*} ¹ <i>Department of Physics "E.R. Caianiello", University of Salerno, Fisciano 84084, Salerno, Italy</i> ² <i>CNR-SPIN, Fisciano 84084, Salerno, Italy</i> ³ <i>Department of Physical and Chemical Science, University of L'Aquila, via Vetoio, I-67100, Coppito, L'Aquila, Italy</i> ⁴ <i>University of Exeter, Stocker road 6, Exeter EX4 4QL, Devon, UK</i></p>
P14	<p>The use of compounds of natural origin in the synthesis of silver nanoparticles Bednarczyk K.*, Ranzoszek-Soliwoda K., Tomaszewska E, Celichowski G., Grobelny J. <i>Department of Materials Technology and Chemistry, Faculty of Chemistry, University of Lodz, Pomorska 163, 90236 Lodz, Poland</i></p>
P15	<p>Comparison of ultrafast optical response of multimodal hybrid metasurface at plasmonic and polaritonic resonances G. S. Ostanin¹, D.A.Sufiullin¹, M. A. Kiryanov¹, T. V. Dolgova¹, M. Inoue², & A. A. Fedyanin¹ ¹<i>Faculty of Physics, Lomonosov Moscow State University 119991, Moscow, Russia</i> ²<i>Department of Electrical and Electronic Information Engineering, Toyohashi University of Technology 1-1 Tempaku-cho, Toyohashi, Aichi 441-8580, Japan</i></p>
P16	<p>Liquid crystal optical microcavities as a novel photonic platform for tuneable light sources M. Kuna^{1*}, M. Muszyński¹, P. Kapuściński¹, P. Oliwa¹, M. Król¹, R. Mazur², P. Morawiak², E. Otón², P. Kula³, W. Piecek², B. Piętka¹, J. Szczytko¹ ¹<i>Institute of Experimental Physics, Faculty of Physics, University of Warsaw, Poland</i> ²<i>Institute of Applied Physics, Military University of Technology, Warsaw, Poland</i> ³<i>Institute of Chemistry, Military University of Technology, Warsaw, Poland</i></p>
P17	<p>Optical neuron based on exciton-polariton condensation. Kuba K.P.*¹, Opala A.², <i>Faculty of Physics, University of Warsaw, Ludwika Pasteura 5, Warsaw</i></p>
P18	<p>Incorporation of 2D perovskite flakes into optical microcavity. J. Misiak¹, S. Galan¹, M. Kedziora¹, K. Lempicka-Mirek¹, R. Mazur², P. Morawiak², W. Piecek², J. Szczytko¹ and B. Pietka¹ ¹<i>Faculty of Physics, University of Warsaw, Warsaw, Poland</i> ²<i>Institute of Applied Physics, Military University of Technology, Warsaw, Poland</i></p>
P19	<p>Electrophotocatalytic reactions in aqueous solutions R. Bartoš¹, M. Veselý², P. Dzik³ <i>Institute of Physical and Applied Chemistry; Faculty of Chemistry, Brno University of Technology, Purkyňova 464/118, Královo Pole, 61200 Brno 12, Czech Republic</i></p>

P20 **Fabrication of high quality ordered Titanium Nitride plasmonic nanostructures**
P. Rampota, S. Panos, S. Kassavetis, N. Pliatsikas, D. Tselekidou, P. Patsalas
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P21 **Fermi-Level Pinning in Organic Thin-Film Transistors**
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¹Max Planck Institute for Solid State Research Heisenbergstr. 1, 70569 Stuttgart, Germany

P22 **Understanding contact resistance in nanoscale organic thin-film transistors**
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P23 **A Novel Textile Wearable OECT-Integrated Smart Bandaid for Real-Time Uric Acid Monitoring in Wound Exudate**
Arcangeli D.^{*1}, Gualandi I.¹, Mariani F.¹, Tessarolo M.², Ceccardi F.¹, Decataldo F.², Melandri F.³, Tonelli D.¹, Fraboni B.², Scavetta E.¹
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³Plastod S.p.A., Via Walter Masetti 7, 40012, Calderara di Reno, Bologna, Italy

P24 **Controlling the emission zone in light-emitting electrochemical cells**
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¹Department of Physics, Umeå University, 90187 Umeå, Sweden

P25 **Printed oxygen indicator for smart food packaging**
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³Institute of Food Science and Biotechnology, Faculty of Chemistry, Brno University of Technology, Purkyňova 464/118, 612 00 Brno, Czech Republic

P26 **Organic electrochemical transistors based on dithienopyrrole-naphthalene diimides with oligo(ethylene glycol) chains**
Ganczarczyk R.^{*1}, Rybakiewicz-Sekita R.^{1,3}, Gryszel M.^{1,2}, Rudowska M.¹, Zagorska M.¹, Glowacki E.D.¹
¹Warsaw University of Technology, Faculty of Chemistry, Noakowskiego 3, Warsaw, Poland
²Linköping University, Laboratory of Organic Electronics, ITN, Bredgatan 33, Norrköping, Sweden
³Cardinal Stefan Wyszyński University, Faculty of Mathematics and Natural Sciences, School of Exact Sciences, Woycickiego 1/3, Warsaw, Poland

P27 **Investigation of nanomechanical properties of novel printed nanomaterials for flexible organic photovoltaics**
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²Nanotechnology Lab LTFN, Department of Physics, Aristotle University of Thessaloniki, Greece

P28 **Star-Shaped Hole Transporting Materials With A Dibenzothiophene Units For Efficient Perovskite Solar Cells**
R. Durgaryan^{1,2}, J. Simokaitiene², D. Volyniuk², J. Vidas Gražulevičius², Narine Durgaryan¹
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²Department of Polymer Chemistry and Technology, Kaunas University of Technology, Barsausko g. 59, LT-51423 Kaunas, Lithuania

P29 **Synthesis and investigation of new semiconducting oligoaniline based polymers**
N. A. Durgaryan
 Department of Organic Chemistry, Yerevan State University, Alek Manoogian 1, Yerevan, Armenia

P30	<p>Bio-functionalization of flexible printed electrochemical biosensors to detect D-Glucose A. Batsi¹, P. Stavropoulos¹, I. E. Chatziioannou¹, K. Tsimenidis², A. Orfanos², S. Logothetidis¹, A. Laskarakis¹ ¹Nanotechnology Lab LTFN, Department of Physics, Aristotle University of Thessaloniki, Greece ²BL Nanobiomed P.C., 57001, Thermi, Greece</p>
P31	<p>Multi-material Manufacturing of Hybrid Ceramic Components in Printed Electronics P. Pandey, S. Ziesche Fraunhofer Institute for Ceramic Technologies and Systems IKTS, Winterbergstr. 28, 01277 Dresden, Germany</p>
P32	<p>Enhancing the Performance of Fully Printed Flexible Organic Solar Cells through Molecular Doping A. Paliagkas¹, C. Stavraki¹, C. Kapnopoulos¹, A. Zachariadis¹, V. Heben¹, E. Rabota¹, S. Logothetidis^{1,2}, A. Laskarakis¹ ¹Nanotechnology Lab LTFN, Department of Physics, Aristotle University of Thessaloniki, Greece ²Organic Electronic Technologies P.C. (OET) 20th KM Thessaloniki - Tagarades, 57001 Thermi Greece - Thessaloniki (Greece)</p>
P33	<p>Investigating the Effects of Chlorine Addition on the Structure and Stability of Printed Perovskite Solar Cells C. Stavraki¹, C. Kapnopoulos², A. Zachariadis¹, S. Kassavetis¹, A. Paliagkas¹, V. Heben¹, C. Gravalidis¹, E. Mekeridis², S. Logothetidis^{1,2}, A. Laskarakis¹ ¹Nanotechnology Lab LTFN, Department Of Physics, Aristotle University Of Thessaloniki, 54124 Thessaloniki, Greece - Thessaloniki (Greece), ²Organic Electronic Technologies P.C. (OET), 20th KM Thessaloniki - Tagarades, 57001 Thermi, Greece - Thessaloniki (GREECE) - Thessaloniki (Greece)</p>
P34	<p>Temperature-dependent morphological changes of P3HT thin films via real-time Spectroscopic Ellipsometry S. Bovasianos, A. Zachariadis, S. Logothetidis, A. Laskarakis Nanotechnology Lab LTFN, Department of Physics, Aristotle University of Thessaloniki, Greece</p>
P35	<p>Fabrication and investigation of ternary-based organic photovoltaic devices based on the PBDB-T:BTP-12:PC60BM system E. Andrioti, G. Atsas, O. Heben, C. Kapnopoulos, E. Rabota, A. Zachariadis, S. Logothetidis, A. Laskarakis Nanotechnology Lab LTFN, Department of Physics Aristotle University of Thessaloniki, Greece</p>
P36	<p>Systematic study of fully printed ternary photovoltaic configurations based on PPDT2FBT:PC70BM:BTP-12 G. Atsas, E. Andrioti, O. Heben, C. Kapnopoulos, E. Rabota, A. Zachariadis, S. Logothetidis, A. Laskarakis Nanotechnology Lab LTFN, Department of Physics Aristotle University of Thessaloniki, Greece</p>



P37	<p>Polysaccharides-based Capsules as Magnetically Navigated Smart Delivery Systems E. Gumieniczek-Chłopek¹, J. Odrobińska-Baliś², C. Kapusta¹, S. Zapotoczny³ ¹ Faculty of Physics and Applied Computer Science, AGH University of Science and Technology, Ave. Adama Mickiewicza 30, Cracow, Poland ² Jerzy Haber Institute of Catalysis and Surface Chemistry, Polish Academy of Sciences, Niezapominajek 8, Cracow, Poland ³ Faculty of Chemistry, Jagiellonian University, Gronostajowa 2, Cracow, Poland</p>
P38	<p>Surface-enhanced Raman scattering (SERS) for bioanalysis and diagnosis N.E. Dina¹, A. Colniță¹, D. Marconi¹, I.A. Brezeștean¹ and A.M.R. Gherman¹ ¹Department of Molecular and Biomolecular Physics, National Institute for Research and Development of Isotopic and Molecular Technologies 67-103 Donat, 400293 Cluj-Napoca, Romania</p>
P39	<p>Label-free electrochemical DNA biosensor to mercury ions detection Szymczyk A.*¹, Olszewski M.², Ziółkowski R.¹, Malinowska E.^{1,3} ¹ Chair of Medical Biotechnology, Faculty of Chemistry, Warsaw University of Technology, Noakowskiego 3, 00-664 Warsaw, Poland ² Chair of Drug and Cosmetics Biotechnology, Faculty of Chemistry, Warsaw University of Technology, Koszykowa 75, 00-664 Warsaw, Poland ³ Centre for Advanced Materials and Technologies CEZAMAT, Warsaw University of Technology, Poleczki 19, 02-822 Warsaw, Poland</p>

P40	<p>Electrospun double layered clickable membrane: a versatile wound dressing Torresi S.¹, Montejo U.², Alonso-Varona A.², Martín L.³, Gabilondo N.¹, Eceiza A.¹ ¹ 'Materials+Technologies' Group (GMT), Chemistry and Environmental Engineering Department, Faculty of Engineering of Gipuzkoa, University of the Basque Country (UPV/EHU), Spain ² Dpto. Biología Celular e Histología, Facultad de Medicina y Enfermería (UPV/EHU), Bº Sarriena s/n, 48940 Leioa, Spain ³ Macrobehaviour-Mesostructure-Nanotechnology SGIker Service, Faculty of Engineering of Gipuzkoa, University of the Basque Country (UPV/EHU), Plaza Europa 1, 20018 Donostia-San Sebastián, Spain</p>
P41	<p>Spectral monitoring via Raman spectroscopy of selective dental restorative materials and assessment of their capacity to treat cavities in extensively damaged teeth A.-M. Iordache¹, E. Gatin^{2,3}, C.-R. Luculescu⁴, S.-M. Iordache¹, I. C.Vasilii¹, M.Elisa¹, I. Chilibon¹, C.E.A. Grigorescu¹, R. R. Ilici⁵ ¹Optospintronics Department, National Institute for Research and Development for Optoelectronics—INOE 2000, Atomistilor 409, Magurele, 077125, Romania; ²Faculty of Medicine, University of Medicine and Pharmacy "Carol Davila", Blv. Eroii Sanitari 8, sector 5, 050474 Bucharest, Romania ³Faculty of Physics, DMSFAPA Department, University of Bucharest, 405 Atomistilor Str., 077125 Magurele, Romania ⁴CETAL Department, National Institute for Laser, Plasma and Radiation Physics, Atomistilor Str. 409, 077125 Magurele, Romania ⁵Faculty of Dental Medicine, University of Medicine "Carol Davila", Plevnei Route No. 17-23, Sector 1, 020021 Bucharest, Romania</p>
P42	<p>Complex colorimetric and thermochromic sensor array for the evaluation of urea in artificial saliva A.M. Iordache¹, S.-M. Iordache¹, T. Soare², C. Rizea³, A. Mazlum³, I. C.Vasilii¹, M.Elisa¹, I. Chilibon¹, C.E.A. Grigorescu¹ ¹Optospintronics Department, National Institute for Research and Development for Optoelectronics—INOE 2000, Atomistilor 409, Magurele, 077125, Romania; ²Department of Pathology, Faculty of Veterinary Medicine, University of Agronomic Sciences and Veterinary Medicine of Bucharest, Splaiul Independentei Street, No. 105, Sector 5, 050097 Bucharest, Romania ³Roxy Veterinary S.R.L., 52A Unirii Str.,Magurele, 077125, Romania</p>
P43	<p>Bottom-up and Top-down Approaches for Creating Luminescent AlN Nanomaterials R.Ruska¹, P.Jankovska¹, B. Berzina¹ ¹Institute of Solid State Physics, University of Latvia, Kengaraga St.8, Riga LV-1063, Latvia</p>
P44	<p>Evaluation of fiber and debris release from protective COVID-19 mask textiles and in vitro acute cytotoxicity effects P. Meier¹, M. Zabara², C. Hirsch¹, A. Gogos¹, D. Tscherrig³, G. Richner³, B. Nowack⁴, P. Wick¹ ¹ Particles-Biology Interactions Laboratory, Empa – Swiss Federal Laboratories for Materials Science and Technology, St. Gallen 9014, Switzerland ² SVP Technology/Science and Consumer Interface, Livinguard AG, Cham 6330, Switzerland ³ Federal Office for Civil Protection FOCP, Spiez Laboratory, Spiez 3700, Switzerland ⁴ Technology and Society Laboratory, Empa – Swiss Federal Laboratories for Materials Science and Technology, St. Gallen 9014, Switzerland</p>
P45	<p>Up-converting nanoparticles with core-shell-shell structure for photodynamic therapy and bioimaging R. Paśławska^{1,2}, T. Wojciechowski¹, K. Sobczak³, A. Borodziuk¹, P. Kowalik¹, B. Sikora¹ ¹Institute of Physics, Polish Academy of Sciences, Al. Lotnikow 32/46, 02-668 Warsaw, Poland ²Faculty of Physics, University of Warsaw, Ludwika Pasteura 5, 02-093 Warsaw, Poland ³Biological and Chemical Research Centre, University of Warsaw, Zwirki i Wigury 101, 02-089 Warsaw, Poland</p>
P46	<p>Co-delivery of 6-bromo-indirubin-3-oxime and copper diethyldithiocarbamate using nanoparticle hybrids for the treatment of refractory melanoma R. A. Paun^{*1,2}, D. C. Dumut^{2,3}, L. Li¹, D. Radzioch^{2,3,4}, M. Tabrizian^{1,5} ¹Department of Biomedical Engineering, McGill University, 3775 University St, Montreal, QC H3A 2B4 CA ²Research Institute of the McGill University Health Center, 1001 Decarie Blvd, Montreal, QC H4A 3J1 CA ³Department of Medicine, McGill University, 1001 Decarie Blvd, Montreal, QC H4A 3J1 CA ⁴Department of Human Genetics, McGill University, 3640 University St, Montreal, QC H3A 0C7 CA ⁵Faculty of Dentistry and Oral Health Sciences, McGill University, 2001 McGill College Av, Montreal, QC H3A 1G1 CA</p>
P47	<p>How Stabilizing Copolymers Influence the Physicochemical Characteristics of Conjugated Polymer Nanoparticles and Their Potential Applications in Nanomedicine M. Zhao [*], A. Uzunoff, M. Green and A. Rakovich Physics Department, King's College London, London WC2R 2LS, UK</p>

P48	Synthesis and characterization of inorganic copper oxide nanoparticles for topical application C. Chaikali ¹ , P. Lampropoulou ² , D. Papoulis ² and S. Hatziantoniou ¹ ¹ Department of Pharmacy, University of Patras, Patras GR-26504, Greece ² Department of Geology, University of Patras, Patras GR-26504, Greece
P49	Development and design of a variety of hybrid materials for Photothermal Therapy E. Cakir ¹ , A. Firat ² , K. Onbasli ^{3,4} , H. Acar ⁴ ¹ Department of Materials Science and Engineering, Graduate School of Sciences and Engineering, Koç University, 34450, Istanbul, Turkey ² Department of Biomedical Sciences and Engineering, College of Sciences, Koç University, 34450, Istanbul, Turkey ³ Istanbul Technical University, Faculty of Chemical and Metallurgical Engineering, Metallurgical and Materials Engineering Department, 34469, Maslak, Istanbul, Turkey ⁴ Department of Chemistry, College of Sciences, Koç University, 34450, Istanbul, Turkey
P50	Towards the standardization of pharmaceutical nanocrystals production L. Castillo ¹ , B. Bahloul ² , K. Alharet ¹ , F. Oyouun ¹ , L. Kostka ³ , T. Etrych ³ , L. Kalshoven ⁴ , A. Guillaume ⁴ , N. Mignet ¹ , Y. Corvis ¹ ¹ Université Paris Cité, CNRS, INSERM, UTCBS, Chemical and Biological Technologies for Health Group (utcbs.u-paris.fr), F-75006 Paris, France ² Drug Development Laboratory LR12ES09, Faculty of Pharmacy, University of Monastir, 5060 Monastir, Tunisia ³ Institute of Macromolecular Chemistry, Czech Academy of Sciences, Heyrovského náměstí 2, CZ-162 06 Prague 6, Czech Republic ⁴ EuroAPI France, 63480 Vertolaye, France
P51	Biocompatibility Experiments of Albumin & Fibrinogen on Conductive Metal Nitride Nanocomposites T. Odutola ¹ , N. Pliatsikas ¹ , S. Panos ¹ , I. Fekas ¹ , S. Kassavetis ¹ , M. Gioti ¹ , P. Patsalas ¹ . ¹ Physics Department, Aristotle University Of Thessaloniki - Thessaloniki (Greece)
P52	Electrodeposition of Gold nanoparticles on flexible substrate for electrochemical bio-sensing applications P. Stavropoulos ¹ , A. Batsi ¹ , K. Tsimenidis ² , A. Orfanos ² , S. Panos ¹ , P. Rampota ¹ , V. Karagkiozaki ² , S. Logothetidis ^{1,2} , A. Laskarakis ¹ ¹ Nanotechnology Lab LTFN, Department of Physics, Aristotle University of Thessaloniki, Greece ² BL Nanobiomed P.C., 20th Km Thessaloniki – Tagarades Road, Thessaloniki, Greece