

4 - 6 November 2024, Crowne Plaza Hotel, Athens, Greece



# PRELIMINARY PROGRAM

# Monday 4 November

08:00-	Registration & Networking		
09:00-10:00	Official Opening Ceremony ICEFPE 2024		
09:00-09:15	Welcome by the Chairman		
09.00-09.13	S. Logothetidis, Chairman ICEFPE24		
09:15-10:00			
09:15-10:00	Official Openings and Government Policies		
	Prof. N. Papaioannou, Secretary General for Higher Education, Ministry of Education, Religious Affairs and Sports,		
	Greece		
10:00-11:30	Building the FPEs Green Industry & Green Energy to a Climate - Neutral Economy		
Session 1	Chairs: A. Laskarakis		
10:00-10:30	Towards a Sustainable and Green Manufacturing Industry for Flexible Printed Electronics		
Keynote	S. Logothetidis, Nanotechnology Lab LTFN & HOPE-A, Greece		
10:30-11:00	Organic photovoltaics with efficiencies exceeding 20%		
Keynote	T. Anthopoulos, University of Manchester, UK		
11:00-11:30	Advancing OPVs towards certified IPV products for a Greener Future		
Invited	I. Gkaragkos, Organic Electronic Technologies (OET), Greece		
	· · ·		
11:30-12:00	Coffee, Networking, Posters, Exhibitors		
12:00-13:30	Digital and Intelligent Manufacturing of FPEs for Energy (organized by Flex2Energy)		
Session 2	Chair: E. Mekeridis		
12:00-12:30	Digitalization of every step in the production value chain - How to get from digital twins to Coating as a service		
Keynote	Th. Kolbusch, Coatema Coating Machinery GmbH, Germany		
12:30-13:00	Enhancing Quality Control with Inline Processes for Flexible Printed Electronics		
Invited	G. Bandli, Semilab Semiconductor Physics Laboratory Co. Ltd., France		
13:00-13:30	Achieving high precision processes and interoperability in R2R Manufacturing of FPEs		
Invited	D. Gklavakis, Depia Automations, Greece		
13:25-15:00	Lunch, Networking, Posters, Exhibitors		
	·		
15:00-16:45	Session 3: OPV Manufacturing, Processes and Integration (organized by Flex2Energy) Chairs: S. Kassavetis		
Session 3			
15:00-15:20 Invited	Towards mass production of Integrated Organic Photovoltaics (IPVs)  E. Mekeridis, OE-Technologies P.C., Greece		
15:20-15:40	Advancements in fs Laser Scribing for P1, P2 and P3 Patterns Using a System Prototype Built for Thin-Film Photovoltaics		
Invited	V. Sabonis, Workshop of Photonics, Lithuania		
15:40-15:55	R2R Laser Patterning Enabling High-Performance Semi-Transparent OPVs		
15.40-15.55	C. Kapnopoulos, Nanotechnology Lab LTFN, Greece		
15:55-16:10	Spray Coated Transition Metal Dichalcogenides as Hole Transport Layers in inverted NFA-based OPVs with enhanced		
10.00 10.10			
	stability under solar and artificial light		
16:10-16:30	stability under solar and artificial light M. Tountas, Hellenic Mediterranean University (HMU), Greece		
16:10-16:30	stability under solar and artificial light M. Tountas, Hellenic Mediterranean University (HMU), Greece Reduction of carbon footprint in OPV via green biosolvent selection		
	stability under solar and artificial light M. Tountas, Hellenic Mediterranean University (HMU), Greece Reduction of carbon footprint in OPV via green biosolvent selection D. Corzo, Silicon Austria Labs GmbH, Austria		
16:45-18:00	stability under solar and artificial light M. Tountas, Hellenic Mediterranean University (HMU), Greece Reduction of carbon footprint in OPV via green biosolvent selection D. Corzo, Silicon Austria Labs GmbH, Austria  Materials, Testing & Multiscale Modelling for FPEs Manufacturing (organized by COPE-Nano)		
16:45-18:00 Session 4	stability under solar and artificial light M. Tountas, Hellenic Mediterranean University (HMU), Greece Reduction of carbon footprint in OPV via green biosolvent selection D. Corzo, Silicon Austria Labs GmbH, Austria  Materials, Testing & Multiscale Modelling for FPEs Manufacturing (organized by COPE-Nano) Chairs: A. Laskarakis		
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16:45-18:00 Session 4 16:45-17:15 Keynote 17:15-17:45 Invited	stability under solar and artificial light M. Tountas, Hellenic Mediterranean University (HMU), Greece  Reduction of carbon footprint in OPV via green biosolvent selection D. Corzo, Silicon Austria Labs GmbH, Austria  Materials, Testing & Multiscale Modelling for FPEs Manufacturing (organized by COPE-Nano) Chairs: A. Laskarakis  Open innovation platform for modelling organic electronic material properties, process, and devices E. Lidorikis, University of Ioannina, Greece  Non-destructive Characterization of coatings in the nm-µm-mm scales by White Light Reflectance Spectroscopy (WLRS) I. Raptis, ThetaMetrisis S.A., Greece		
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## **Tuesday 5 November**

ruesday 5 November					
08:00-	Registration & Networking				
09:00-11:30	Green Energy and Lighting (organized by HE COPE-	-Nano)			
Session 5	Chairs: G. Malliaras, Ch. Gravalidis				
09:00-09:30	High performance optoelectronic devices, based of	on Polyvinylidene Fluo	oride based copolymers, through ink formulation and		
Keynote	printing process optimization				
	G. Hadziioannou, University of Bordeaux, France				
09:30-10:00	Sustainable Printable Memristive Solar Cells for Se	elf-Powered IoT Edge	Computing Enabled by Halide Perovskites		
Invited	E. Kymakis, Hellenic Mediterranean University Rese	earch Center, Greece			
10:00-10:30	Polymeric and Hybrid Materials for Organic Electron	onics			
Invited	K. Andreopoulou, Dept. Chemistry, University of Pa				
10:30-11:00	The ELORPrintTec Inn. Center for Flexible Printed (	Organic Electronics: F	rom fundamental science to industrial prototypes		
Invited	S. Khiev, ELORPrintTec, University of Bordeaux, Fra.	nce			
11:00-11:30	COPE-Nano Center of Excellence for Innovation an	d Sustainability in FP	Es and Bioelectronics		
Invited	A. Laskarakis, LTFN/COPE-Nano, Department of Phy	ysics, Aristotle Univers	sity of Thessaloniki, Greece		
11:30- 12:00	Coffee, Networking Break, Posters, Exhibitors				
11.30- 12.00					
12:00-13:45	Sensors and Biosensors from Healthcare to Agrifo	od and Environment	(organized by HE COPE-Nano)		
Session 6	Chairs: A. Laskarakis, K. Andreopoulou				
12:00-12:30	Novel materials and device architectures for wear	ables			
Keynote	G. Malliaras, University of Cambridge, UK				
12:30-13:00		nmental monitoring:	from Materials to Sensors, from Ideas to Information		
Invited	G. Kitic, University of Novi Sad, Serbia				
13:00-13:15	From Production to Early Diagnosis: The Role of Pr	rinted Biosensors in D	Diseases Monitoring		
	K. Tsimenidis, BL Nanobiomed, Greece				
13:15-13:30	KERMIT: Printed Lab-on-a-chip skin patch for dete		from sweat		
	D. Corzo, Silicon Austria Labs GmbH, Villach, Austri				
13:30-13:45	Bacterial cellulose as a substrate for sustainable in	• •			
	F. Pescosolido, CNR-Institute for Microelectronics a	nd Microsystems (IMI	M) 00133 Rome, Italy		
13:45-15:00	Lunch, Networking, Posters, Exhibitors				
15:00-16:30	Energy Efficient Buildings, Smart Cities and Mariti	me (organized by HF)	Flex2Energy)		
Session 7	Chair: S. Kassavetis, A. Chatziparadeisis	(0.8			
15:00-15:20	Flexible Organic Photovoltaics for Solar Electric En	ergy Operation of Sai	ilboats and other Boats		
Invited	L. Gourtzogiannis, President, Istia Aigaiou, Greece				
15:20-15:40	Title to be announced soon				
Invited	N. Chrysogelos, Athens Deputy Mayor of Climate G	Sovernance and Social	Economy		
15:40-16:00	<b>EU-Mission Project "Creating NEBourhoods togeth</b>	ner" & upcoming Hori	izon Europe EU-calls 2025 on Building		
Invited	P. Panagiotou, Bavarian Research Alliance, German	ny	-		
16:00-16:15	OPV Solutions in Buildings, Infrastructures and Ma	aritime			
	S. Fachouri, V. Giannoglou , Organic Electronic Tecl	hnologies (OET), Gree	ce		
16:15-16:30	Innovative Glass for BIPV Applications				
	N. Stergiou, Kiriakidis Glass, Greece				
16:30-16:45	<b>Expanding Horizons: OPV Integration Across Build</b>		icles and Beyond		
	S. Zygridou Organic Electronic Technologies (OET),	Greece			
16:45-18:15	Green Energy Autonomous Islands and Sustainabi	lity			
Session 8	Chairs: S. Logothetidis, E. Mekeridis				
16:45-17:05	Greek Islands as Beacons of Sustainability: Pionee	ring the Green Future	9		
Invited	D. Kollias, Advisor, Hellenic Ministry of Environmen	t and Energy, Greece			
17:05-17:25	The Clean energy for EU islands initiative				
Invited	K. Komninos, DAFNI Network, Greece				
17:25-17:45	Project NHSOS				
Invited	E. Bekiaris, Hellenic Institute for Transport, Greece				
17:45-18:00	Title to be announced soon				
	C. Yannouli, OCEANKING, Greece				
18:00-18:15	Developing global OPV business, through a holistic	c application develop	ment & application platform		
E. Margaritis, OE-Technologies P.C., Greece					
18:15-20:00	ICEFPE & AGRIVOLTAICS Posters, Coffee,	18:00-18:30	HORIZON EUROPE Project Meetings		
18:15-20:00 Posters	ICEFPE & AGRIVOLTAICS Posters, Coffee, Networking (Room Hippocrates)	18:00-18:30 INTERNAL	HORIZON EUROPE Project Meetings (Room Thales)		
		INTERNAL	(Room Thales)		

























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# Wednesday 6 November

08:00-	Registration & Networking
09:00-10:00	Official Opening Ceremony AGRIVOLTAICS 2024
09:00-09:15	Welcome by the Chairman
	S. Logothetidis, Chairman AGRIVOLTAICS24
09:15-10:00	Official Opening and Government Policy
	Dr. K. Tsiaras, Minister of Rural Development and Food, Greece
	Mr. D. Stamenitis, Deputy Minister at The Ministry of Rural Development and Food, Greece
	· Mr. D. Papagiannidis, Secretary General for European Funds and Infrastructures, Ministry of Rural Development and
	Food, Greece
10:00-11:00	Global Synergy for Agrivoltaics Collaborative Technologies and Ventures
Session 1	Chairs: C. Gravalidis
10:00-10:30	OPVs as a GAME CHANGER in Agriculture: 3rd Generation of Photovoltaics for Triple Land Use in Greenhouses and Open
Keynote	Field Cultivations
	S. Logothetidis, HOPE-A, and Nanotechnology Lab LTFN, AUTh, Greece
10:30-11:00	Sustainable Energy Solutions for Greenhouses: The Role of Semi-Transparent Photovoltaics
Invited	A. Kavga, University of Patras, Greece
11:00-11:15	Catalyzing the Transition: Research to Commercial Deployment Agrivoltaics Industry Insights
	H. Hamburger, SolarGik, Israel
11:15-11:30	Implementation of Ecological Measures in Single-Axis Tracked Interspace Systems within the Framework of the National Agri-PV Tender in Luxembourg: A Report on Challenges and Successes
11.15-11.50	I. Khalil, GPSS S.A., Luxembourg
11:30-12:00	Coffee, Networking, Posters, Exhibitors
12:00-13:30	Advancements in Crop Harvesting by Integrated OPV and OLED in Greenhouses
Session 2	Chairs: S. Kassavetis, E. Athanasiadou
12:00-12:30	Agrivoltaics Revolution for Sustainable Agriculture and Energy Generation: Boosting Greenhouse Crop Yield and
Invited	Germination with 3rd Gen Semitransparent OPVs
12-20 12-00	E. Athanasiadou, Organic Electronic Technologies P.C. Greece
12:30-13:00 Invited	Effect of Agrivoltaics on microclimate and agricultural parameters
13:00-13:15	M. Szabo, Hungarian University of Agriculture and Life Sciences, Hungary  The impact of OPVs and OLEDs on a molecular and a macroscopic level of fruit quality.
13.00-13.13	S. Michailidou, Organic Electronic Technologies P.C. Greece
13:15-13:30	Synergistic architectures for next generation Agrivoltaics incorporating flexible, transparent organic solar modules
	K. Nikolaidou, EURECAT, Spain
13:30-15:00	Lunch, Networking, Posters, Exhibitors
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15:00-18:00	Maximizing Agricultural efficiency: Agrivoltaic Optimization Strategies
Session 3	Chair: A. Laskarakis, A. Chatziparadeisis
15:00-15:30 Invited	Precision Hydroponics: A solution to Greenhouse Industry. The combination with Agrivoltaics empowers Sustainability E. Drimtzias, IQ CROPS Ltd, Greece
15:30-16:00	Water-based inks for sustainable and efficient organic photovoltaics for Agrivoltaics
Invited	C. Lartigau-Dagron, Assistant Professor, University of Pau, France
16:00-16:15	Optimizing Waste Water Treatment: A Numerical and Experimental Case Study on Innovative Bioreactor Design with
	integrated Knitted Fabrics
	A. Kneer, TinniT Technologies GmbH, Germany
16:15-16:30	LED and OLED Technology to enhance plant growth in next-generation Greenhouses
	D. Tselekidou, LTFN/COPE-Nano, Department of Physics, Aristotle University of Thessaloniki, Greece
16:30-16:45	Continuous monitoring of an Agri-PV-covered pear orchard with autonomous UGVs
4/ 45 47 00	N. Congouleris, iBO – CERTH, Greece
16:45-17:00	LSC-filtered illumination for enhancing basil seedling growth
17.00 10.00	G. Mangherini, University of Ferrara, Italy  Introductions European and Grack Religion for Organic Printed Electronics and the perspectives of the Grack Ecosystem.
17:00-18:00 Panel	Introduction: European and Greek Policies for Organic Printed Electronics and the perspectives of the Greek Ecosystem A. Chatziparadeisis, HOPE-A, Greece
ranel	Panel Discussion with stakeholders
	Topics include Policies & Regulations, ESG Goals
10,00 10,20	ICEEDE 9 ACRIVOLTAICS Closing Domosks























18:00-18:30

ICEFPE & AGRIVOLTAICS Closing Remarks



**COPE-Nano** 

	Electronics industry (ICEFPE24) and AGRIVOLIAICS 2024
RIVOLTAI	4 - 6 November 2024, Crowne Plaza Hotel, Athens, Greece
	ICEFPE POSTERS
P01	Fully Printed Sweat Sensor Patch for Early Diagnosis of Kidney Diseases
101	T. Beduk <sup>1</sup> , E. Gregorio <sup>2,3</sup> , D. A. Corzo Diaz <sup>1</sup> , S. Lengger <sup>1</sup> , P. Salvo <sup>2,3</sup> , J. Kosel <sup>1</sup>
	<sup>1</sup> Silicon Austria Labs GmbH: Sensor Systems, Austria
	<sup>2</sup> Institute of Clinical Physiology, National Research Council, Italy
	<sup>3</sup> Department of Chemistry and Industrial Chemistry – University of Pisa, Pisa, Italy
P02	Study on applicability of phytochemicals to organic electronics
102	K. Akaike <sup>1</sup> , T. Hosokai <sup>2</sup> , Y. Ono <sup>1,3</sup> , R. Tsuruta <sup>3</sup> , Y. Yamada <sup>3</sup>
	<sup>1</sup> National Institute of Advanced Industrial Science and Technology, Nanomaterials Research Institute, Japan
	<sup>2</sup> National Institute of Advanced Industrial Science and Technology, National Metrology Institute of Japan, Japan
DO2	<sup>3</sup> University of Tsukuba, Faculty of Pure and Applied Sciences, Japan
P03	Anisotropic conductive adhesives based on bio-based resins and Copper conductive fillers: Towards more
	sustainable hybrid electronic devices
	I. Petsagkourakis, M. Sandberg, O.J. Hagel and V. Beni.
D0.4	RISE Research Institutes of Sweden, Digital Systems, Smart Hardware, Printed, Bio- and Organic Electronics, Sweden
P04	Transformable and overprintable electrolytes based on betaamino esters (BÁKÉ-lytes). The PIONeering future of
	sustainable and fully printed electrochemical devices.
	I. Petsagkourakis and Mats Sandberg
DOF	RISE Research Institutes of Sweden, Unit of Bio-and-Organic Electronics, Sweden
P05	Innovative Egot-Based Time Temperature Integrator For Food Cold-Chain Monitoring
	M. Bosi¹, M. Sensi², F. Biscarini³
	1,2,3 Life Science Department, University of Modena and Reggio Emilia
DO/	1,3 Physics, Informatics and Mathematics Department, University of Modena and Reggio Emilia, Italy
P06	Surface-science studies of plant-derived molecules
	Y. Yamada <sup>1</sup> , T. Hosokai <sup>2</sup> , Y. Ono <sup>1,3</sup> , R. Tsuruta <sup>3</sup> , K. Akaike <sup>3</sup>
	<sup>1</sup> University of Tsukuba, Faculty of Pure and Applied Sciences, Japan
	<sup>2</sup> National Institute of Advanced Industrial Science and Technology, National Metrology Institute of Japan, Japan
D07	<sup>3</sup> National Institute of Advanced Industrial Science and Technology, Nanomaterials Research Institute, Japan
P07	Investigation of green light emitting polymers for PLED based lighting and optical sensing
	K. Papadopoulos <sup>1</sup> , D. Tselekidou <sup>1</sup> , A. Zachariadis <sup>1</sup> , S. Kassavetis <sup>1</sup> , A. Laskarakis <sup>1</sup> , S. Logothetidis <sup>1,2</sup> , M. Gioti <sup>1</sup>
	Nanotechnology Lab LTFN, Aristotle University of Thessaloniki, Greece
	<sup>2</sup> Organic Electronic Technologies P.C. (OET), Thermi, Greece
P08	Investigating the Stability of Fully Printed MAPbI3 Perovskite Solar Cells through ISOS Protocols
	C. Stavraki <sup>1</sup> , S. Kassavetis <sup>1</sup> , A. Zachariadis <sup>1</sup> , C. Kapnopoulos <sup>1</sup> , E. Paraschoudi <sup>1</sup> , C. Gravalidis <sup>1</sup> , A. Paliagkas <sup>1</sup> , E.
	Mekeridis <sup>2</sup> , S. Logothetidis <sup>1,2</sup> , A. Laskarakis <sup>1</sup>
	¹ Nanotechnology Lab LTFN, Aristotle University of Thessaloniki, Greece,
500	<sup>2</sup> Organic Electronic Technologies P.C. (OET), Thermi, Greece
P09	A comprehensive study on the impact of molecular doping in enhancing the optoelectronic properties and
	efficiency of fully printed flexible organic photovoltaics
	A. Paliagkas <sup>1</sup> , C. Stavraki <sup>1</sup> , C. Kapnopoulos <sup>1</sup> , A. Zachariadis <sup>1</sup> , V. Heben <sup>1</sup> , E. Rabota <sup>1</sup> , E. Paraschoudi <sup>1</sup> , S.
	Logothetidis <sup>1,2</sup> , A. Laskarakis <sup>1</sup>
	<sup>1</sup> Nanotechnology Lab LTFN, Aristotle University of Thessaloniki, Greece
	<sup>2</sup> Organic Electronic Technologies P.C. (OET), Thermi, Greece
P10	Fully printed single carrier devices based on Y5-12 material: Fabrication and Analysis
	E. Doudis <sup>1</sup> , C. Kapnopoulos <sup>1</sup> , C. Stavraki <sup>1</sup> , V. Heben <sup>1</sup> , A. Paliagkas <sup>1</sup> , A. Zachariadis <sup>1</sup> , E. Rampota <sup>1</sup> , S. Kassavetis <sup>1</sup> , A.
	Laskarakis <sup>1</sup> , S. Logothetidis <sup>1,2</sup>
	<sup>1</sup> Nanotechnology Lab LTFN, Aristotle University of Thessaloniki, Greece
	<sup>2</sup> Organic Electronic Technologies P.C. (OET), Thermi, Greece
P11	Exploring Mechanical Robustness of Organic Photovoltaics in Cyclic Bending Conditions
	E. Doudis <sup>1</sup> , <b>Th. Kalampaliki<sup>1</sup></b> , <b>S.</b> Kassavetis <sup>1</sup> , Ch. Kapnopoulos <sup>1</sup> , E. Mekeridis <sup>2</sup> , A. Laskarakis <sup>1</sup> , <b>S.</b> Logothetidis <sup>1,2</sup>
	<sup>1</sup> Nanotechnology Lab LTFN, Aristotle University of Thessaloniki, Greece
	<sup>2</sup> Organic Electronic Technologies P.C. (OET), Thermi, Greece



























**COPE-Nano** 

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GRIVOLTA	<b>CS 2024</b> 4 - 6 November 20	24, Crowne Plaza Hotel, Athens, Greece	ltfn
	AGRIVOLTAICS POSTERS		
P01	Energy Autonomy in Decentralised Urban G	reywater Circularity Using Green Roofs	
	D. Papadimitriou, I. Louloudakis, D. Harkouts	sis, I.N. Daliakopoulos, P.A. Nektarios, T. Manios	
	Department of Agriculture, Hellenic Mediter	ranean University, Greece	
P02	Theoretical study of ADA-type dicationic py	ridinium molecules as potential organic semiconduc	tor materials in
	agrivoltaics		
	A. Aracena, I. Chandía		
	Facultad de Medicina Veterinaria y Agronom	ía, Universidad de las Américas, Manuel Montt 948, S	Santiago, Chile
P03	Computational study of ADA-type Benzotrit	hiophene molecules as potential organic acceptor m	naterials in
	agrivoltaics		
	I. Chandía, A. Aracena		
	Facultad de Medicina Veterinaria y Agronom	ía, Universidad de las Américas, Manuel Montt 948, S	Santiago, Chile
P04	Photovoltaics for smart machines and robot		
	I. Louloudakis <sup>1</sup> , D. Papadimitriou <sup>1</sup> , D. Papage	· ·	
	<sup>1</sup> Department of Agriculture, Hellenic Medite		
		neering, Hellenic Mediterranean University, Greece	
P05		itoring Systems: A Synergistic Approach to Sustainab	le Agriculture and
	Energy		
	G. Di Domenico <sup>1,2</sup> , <b>A. Colantoni</b> <sup>1*</sup> , P. Pesarini		
	<sup>1</sup> University of Tuscia, Department of Agricul		
	· ·	omics, Research Centre for Forestry and Wood, Roma	, Italy
	<sup>3</sup> Gruppo Maurizi S.r.I., Via Pellaro 22 – 00178		
P06	Agrivoltaic Power Production and RO Desali		
	N. Ait Said Ouhammou <sup>1</sup> , M. Akhsassi <sup>1.2</sup> , A. E		
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