# European Materials Congress Advanced Materials Congress Advanced Materials

**Advanced Materials** Laureate 2017

Professor Luis M. Liz-Marzán

CIC biomaGUNE, San Sebastián Spain

### Souvenir & Program Book

22 - 24 August 2017 | Stockholm, Sweden Conference Centre, M/S Mariella, Viking Line Terminal







www.iaamonline.org | www.vbripress.com



#### **EAMC** and parallel events at a glance

**Summary of Program** 

Day - 1: Tuesda 22 August 201 Port of Stockholm, S	7	Day - 2: Wedno 23 August 2 Port of Helsinki,	017	Day - 3: Thu 24 August : Port of Stockholr	2017
Registration	09.00-10.30	Breakfast	07.30-08.45	Breakfast	07.30-08.45
Boarding	10.30-10.45	Plenary Session	09.00-10.30	Check Out	08.00-08.30
Plenary Session	10.45-12.30	Coffee Break	10.45-11.00	Parallel Session	09.00-10.30
Lunch & Poster Setup	12.00*-13.30	Parallel Session	11.00-12.30	Coffee Break	10.30-10.45
Cabin Access	13.30-14.00	Lunch	12.00*-13.30	Plenary Session	10.45-12.30
Parallel Session	14.00-16:30	Sightseeing in Helsinki	13.30-15.30	Lunch	12.00*-13.30
IAAM Felicitation and Welcome Ceremony	16.30-17.30	Parallel Session	16.00-17.30	Parallel Session	13.30-15.00
Poster Session & Parallel Session	18.00–19.30	IAAM Awards and Farewell Drink	17.30–18.30	Closing Ceremony	15.00-15.30
Dinner	20.00-21.30	Dinner	20.00-21.30	Disembark from the Viking Cruise	15:30
Entertainment**	21.30-22.30	Entertainment**	21.30-22.30	Sightseeing in Stockholm	16.00-18.00
*Accompanying person can sta at 12.00	rt their Lunch	**A variety of entertainmen	t is available		

#### **Venue Chart**

		Club Mar	, Deck-7		С	onference Cen	ter, Deck-8		
		Session I -	· Club Mar	Session II - Auditorium A	Session III - Auditorium B	Session IV - B51-52	Session V- B31-32	Session VI - S22-23	Session VII- HOB
Day - 1: T 22 Augus	•	Plenary Session	NP	NN	SA	ВВ	ЕНМ	СМ	
Port of Stockh				MMCT	MMCT	TFCMT	ммст		
Day - 2: We		Plenary Session	NP	NN	GGF: GSC	ВВМ	ЕНМ	WTF	Delegates
Port of Helsinki, Finland		NP		NN	GCN	MN	ССМ	WTF	Gallary
Day - 3: T		NP	Plenary Session	EGM	GIBSS	STP	CSEM	WTF	
Port of Stockh		NP		EGM	GGF: GA	ОЕММ	AMI	WTF	
S	NP	Nanogene Piezot		GIBSS	Graphene Interf Systems S	0 0	ССМ		and Ceramic erials
Abbreviations	GGF: GSC	Global Graph Growth, Syr Characte	nthesis and	GCN	Growth o Nanom		GGF: GA		hene Forum: Applications
iat	NN	Nanomate Nanotec		ВВ	Biomaterials a	and Biodevices	CSEM		nal, Structural ring Materials
rev	EGM	Environmenta Mate		ввм	Biosensor and Mate		АМІ		d Materials ations
qq	ммст	Medical Materi Techno		MN	Microfluidics &	& Nanofluidics	СМ	Computatio	nal Materials
⋖	SA	Sensors &	Actuators	STP	Science and Poly	0,	TFCMT		& Coating Fechnology
	ЕНМ	Energy and Mate		ОЕММ	Optical, Ele Magnetic	ctronic and Materials	WTF	World Techn	ology Forum
								<u> </u>	

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1.	WELCOME MESSAGE
2.	Researcher of the Year 2017:
	Professor Zhong Lin Wang, Advanced Materials Letters
	Professor Nils Mårtensson, Advanced Materials Proceedings
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	<ul> <li>Tuesday, 22 August 2017, M/S Mariella, Viking Line, Sweden (Day - 1)</li> <li>Registration at Viking Line Terminal, Stadsgården, 116 30 Stockholm, Sweden</li> <li>Boarding at M/S Mariella Viking Cruise and Drop Luggage in Music Meister</li> <li>Opening Ceremony and Conference</li> <li>Welcome drink, IAAM Felicitation and Poster Session</li> <li>Dinner at Viking Buffet</li> <li>Entertainment at Club Mar</li> </ul>
	<ul> <li>Wednesday, 23 August 2017, M/S Mariella, Viking Line, Sweden (Day - 2)</li> <li>Breakfast at Viking Buffet</li> <li>Conference and Lunch at Viking Buffet</li> <li>Sightseeing in Helsinki</li> <li>Parliament Building, Museum of Modern Art</li> <li>The Stunningly designed Rock Church</li> <li>Olympic Stadium from the 1952 games</li> <li>Helsinki Lutheran and Uspenski Orthodox Cathedrals</li> <li>IAAM Awards and Farewell Drink at Club Mar</li> <li>Dinner at Viking Buffet</li> <li>Entertainment at Club Mar</li> </ul>
	<ul> <li>Thursday, 24 August 2017, M/S Mariella, Viking Line, Sweden (Day - 3)</li> <li>Breakfast at Viking Buffet</li> <li>Check Out from the Cabins and Store Luggage in the Music Meister</li> <li>Lunch at Viking Buffet</li> <li>Closing Ceremony at Club Mar</li> <li>Sightseeing in Stockholm</li> <li>Commencement of tour at central train station, Stockholm</li> </ul>
4.	IAAM AWARDEES
5.	NOTES

#### Welcome Message

#### Welcome to the EAMC 2017!

Dear Colleagues,

On the behalf of organizing committee, it is our great pleasure to warm welcome you to the 10<sup>th</sup> assembly of Advanced Materials Congress Series of the International Association of Advanced Materials (www.iaamonline.org) in the city of Nobel Prize, Stockholm, Sweden. It is precious moment for us to host the 2<sup>nd</sup> annual meeting of European Advanced Materials Congress (EAMC-2017, www.vbripress.com/eamc) at the Conference Centre, M/S Mariella, Viking Line Cruise ship cruising from Stockholm (capital city of Sweden) – Helsinki (capital city of Finland) – Stockholm. The conference will "depart" from Stockholm, 22 August, returning on 24 August 2017. This time again, we are ready to enjoy our science while cruising on the Baltic sea. What better way to ensure the maximum interaction and most vibrant discussion than to place all aboard a single vessel while sailing across the Baltic through the balmy Scandinavian summer. The conference will bring an amazing experience of cruise hospitality and visit two capital cities of Scandinavia, with allusion of the beautiful views of Stockholm archipelago with nearly 30,000 islands, islets and rocks.

EAMC provides a global platform for researchers and engineers coming from academia and industry to present their research results and activities in the field of fundamental and interdisciplinary research of advanced materials and technology. The congress brings together the professors, researchers, scientists, business giants, and technocrats to offer an international platform for the dissemination of original research results, new ideas and practical development and discover advances in the field and related interdisciplinary topics. In this year, we have received a 30% increasing number of abstracts (1016 abstracts from 92 countries) from the last year due to the following reasons:

- Excellent speakers from industry and academia. It is a series of advanced materials cruise event where 50+ sessions and international symposiums are hosted in the single vessel. We explore interdisciplinary connections, global networking, industry exhibition, training courses, global market and product lunches in the areas of Advanced Materials.
- There is chance to know more about Nobel Prize and also interact with chairman/member of the Nobel Prize committee.
- Access to all parallel events in a single registration fee.
- The Advanced Materials Laureate, European Advanced Materials Award, Graphene Award, Nanogenerators and Piezotronics Award, IAAM Medal, IAAM Scientist and Young Scientist Awards will be felicitated by the International Association of Advanced Materials.

• Amazing experience of cruise hospitality and visit two capital cities of Scandinavia, not to mention the beautiful views you will experience of the Stockholm archipelago on sunny summer days and beautiful long and light evenings.

The conference will cover the full span of Advanced Materials ranging from Nano to Macro and from composite, polymer and ceramic to optical and bio. Key applications areas had biodevices, energy, electronics, sensors, medical & clinical, constructional and engineering materials, while paying attention to the environment and the introduction of nano green materials and sustainable new age technology wherever possible. Congress will run with 3 plenary & 34 parallel sessions and fourteen parallel symposiums including 6 plenary talks, 8 keynote talks, 71 invited lectures, 184 oral presentations, 110 poster presentations, and IAAM welcome, farewell and felicitation ceremony.

Congratulate to all awards winner and we thanks to VBRI Press (www.vbripress.com) and Viking Line for their excellent organization to smoothly conduct the meeting on board. We hope that you will enjoy this exciting and timely meeting as we pass with Advanced Materials and deliverables could match number of inspiring facts, figures, concepts and demonstrations.

With very best wishes,

Conference Chair(s)



**Prof. Ashutosh Tiwari**Director, Institute of Advanced Materials
Secretary-General – IAAM, Sweden
Editor-in-Chief, Advanced Materials Letters
Series Editor.

- Advanced Materials, Wiley-Scrivener, USA
- Advanced Nano-materials, Elsevier, UK

URL: www.iaam.se/director.html



Prof. Zhong Lin Wang
Hightower Chair, Georgia Institute of Technology, USA
Founding Director, Beijing Institute of Nanoenergy and
Nanosystems, Chinese Academy of Sciences, China
Editor-in-Chief, Nanoenergy, Elsevier
URL: www.nanoscience.gatech.edu



# You have a chance to interact with Prof. Nils Martensson

Chairman of Nobel Committee in Physics, 2017 at the Royal Swedish Academy of Sciences, Sweden



#### The Nobel Prize

Plenary Session 10.45 - 12.30 on 24 August 2017





## Advanced Materials Leffers

Researcher of the Year

Professor Zhong Lin (ZL) Wang

Nanogenerator & Piezotronics

Editor-in-Chief **Ashutosh Tiwari** 

Available online at www.vbripress.com/aml



An Official Journal

Advancement of Materials to Global Excellence www.iaamonline.org

# Advanced Materials Proceedings

# Researcher of the Year

Professor Nils Mårtensson

Metals and Metal Surface Physics by Synchrotron Techniques

Available online at www.vbripress.com/amp





#### **Guidelines for Activities & Instructions**

- 1. The conference will run as per the **Current Location Time**. **Internet will be available during the conference** however, organizer will not guarantee to provide a high-speed internet. For the internet facility on board please contact to the cruise information desk at deck 6.
- 2. Please collect **the bag and conference materials** at the registration desk at harbor on 22<sup>nd</sup> August 2017 (Time: 09.00-10.30).
- The delegates must wear their Name Batch all the time during the conference. It is note that delegates will be identify on the Cruise by their Name Batch even to get access for Breakfast, Lunch and Dinner during the conference in the Viking Buffet, Deck 7.
- 4. **Drop your luggage** in Music Meister behind the inauguration hall (Deck 7). You will get cabin access after lunch (Check-in time of cabin: 13:30 14:00) on 22<sup>nd</sup> August and Check out from the cabin on 24<sup>th</sup> August at 8.00 AM (store luggage in Music Meister at Deck 7).
- 5. **Conference Office will be open time** during 12.00 14.00 and 19.00 20.30 every day at conference centre, Deck 8.
- 6. Please download conference detailed program, from our website www.vbripress.com/eamc/pages/scientific-program and Proceedings and Abstracts Book, http://www.vbripress.com/eamc/pages/abstracts-book
- 7. "Save environment and Green practices" We appreciate to use **digital copy of conference documents**!! However, if you need print (hard copy) you can manage by yourself. Conference organizers will not provide you any hard copy of Proceedings and Abstracts Book.
- 8. Please make sure that all presenter's/speaker's don't forget to upload their presentation (power point or PDF) in the computer present in respective sessions before 30 min from the session starts (session chairs/co-chairs would help speakers to upload their presentations).
- 9. **Notepad and pen** will also be provided in each session during the conference.
- Poster sticks will be available at conference helpdesk, conference centre, Deck
   If you need any assistance to hang your poster on poster board, you can ask conference staff available at helpdesk.
- 11. Receipt of your payment and Presentation/participation certificate will be send to your registered email ID by email on 25<sup>th</sup> August 2017.
- 12. The **children's club** will be accessible for your kids.
- 13. Accompanying persons can enjoy health club, tax-free shopping, etc. on board.
- 14. We have also exclusive **cultural activities** during 22<sup>nd</sup> and 23<sup>rd</sup> August both days in the evening at fun club, deck 7.

#### Day - 1: Tuesday, 22 August 2017, M/S Mariella, Viking Line, Sweden

	09.00-10.30	Registration at Viking Line Terminal, Stadsgården, 116 30 Stockholm, Sweden
)	10.30-10.45	Boarding at M/S Mariella Viking Cruise and Drop Luggage in Music Meister

10.45-11.00 Opening Ceremony

EAMC Chair(s): Ashutosh Tiwari, Institute of Advanced Materials, Sweden and Zhong Lin Wang, Georgia Institute of Technology, USA President IAAM: Hisatoshi Kobayashi, National Institute for Materials Science, Japan and Viking Line: Per-Olof Wahlin, Sweden

11.00-12.30 Plenary Session at Club Mar, Deck 7

Chair(s): Ashutosh Tiwari, Institute of Advanced Materials, Sweden and Hisatoshi Kobayashi, National Institute for Materials Science, Japan

11.00-11.40 Advanced Materials Laureate Lecture: Luis Manuel Liz Marzán, CIC biomaGUNE, Spain - Advanced nanomaterials for plasmonic sensing

European Advanced Materials Award Lecture: Liberato Manna, Istituto Italiano di Tecnologia, Italy - Halide perovskites: Synthesis, transformations and their 11.40-12.10

12.10–12.30 IAAM Medal Lecture: Lucia Hegedusova, European Commission, Belgium - The European Research Council

12.00-13.30 Lunch at Viking Buffet, Deck 7

Poster Setup at Conference Centre, Deck 8

13.30-14.00 Cabin Access

	14.00-16:30	Parallel Sessions 1-2-3-4-5-6, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8
1017		Session I
August 2017		Venue: Club Mar, Deck 7
		Nanogenerators & Piezotronics: Fundamental Materials and Prospects
1: 22	Chair: Zhong	Lin Wang, Georgia Institute of Technology, USA  Co-Chair: Nelson Sepulveda, Michigan State University, USA
Day-	14.00-14.30	Nanogenerators and Piezotronics Award Lecture: Yue Zhang, University of Science and Technology Beijing, China - Triboelectric nanogenerators as self-powered biomechanical motion sensors
	14.30-15.00	IAAM Medal Lecture: Sang-Woo Kim, Sungkyunkwan University, South Korea - Piezoelectric and triboelectric properties in 2D materials for nanogenerators and tribotronics
	15.00-15.20	Invited Lecture: Christian Falconi, University of Rome Tor Vergata, Italy - Nanoscale piezoelectricity and triboelectricity: Challenges and opportunities
	15.20-15.40	Invited Lecture: Sangmin Lee, Chung-Ang University, South Korea - Development of triboelectric nanogenerator as a sustainable energy harvester
	15.40-16.00	Invited Lecture: Yan Zhang, University of Electronic Science and Technology of China, China - Theoretical model of quantum piezotronics
	16.00-16.10	Oral: Hanjun Ryu, Sungkyunkwan University, South Korea - High performance triboelectric nanogenerators based on solid polymer electrolytes with asymmetric ion pairing effect
	16.10-16.20	Oral: Tae Yun Kim, Sungkyunkwan University, South Korea - Ghost floating gate in graphene channel by tunneling-triboelectrification
	16.20-16.30	Oral: Yi Xi, Chongqing University, China - Multifunctional TENG for blue energy scavenging and self-powered wind speed sensor
117		Session II
August 2017		Venue: Auditorium A, Conference Centre, Deck 8
ngn		Nanomaterials & Nanotechnology
: 22 A	Chair: Rober	t Hurt, Brown University, USA Co-Chair: Ivania Markova, University of Chemical Technology and Metallurgy- Sofia, Bulgaria
y-1	14.00-14.20	$\textbf{IAAM Medal Lecture: Zhongfu Zhou, China -} Synthesis of a hedgehog-like ZnO/Bi_2O_2CO_3 \ heterojunction and its enhanced photocataltytic performance$
Day	14.20-14.40	Invited Lecture: Jinho Ahn, Hanyang University, South Korea - Characterization of nano-scale membrane for EUV pellicle applications
	14.40-15.00	Invited Lecture: Xiaoyu Yang, Wuhan University of Technology, China - Hierarchical self-assembly materials with high activity and stability
	15.00-15.20	$\textbf{Invited Lecture: Nils Almqvist, Lulea University of Technology, Sweden -} \ Towards \ nanolithography \ with \ starch \ and \ \alpha-amylase$
	15.20-15.30	Oral: Stefan Andersson, SINTEF Materials and Chemistry, Norway - Synthesis and modelling of materials for chemical looping reforming
	15.30-15.40	Oral: Olga Rac-Rumijowska, Fluid-Screen, Inc., USA - Conductive nanocomposite polymer fibers
	15.40-15.50	Oral: Avtandil Tavkhelidze, Ilia State University, Georgia - Experimental study of geometry-induced doping in Si
	15.50-16:00	Oral: Florent Pourcin, Aix-Marseille University, France - Aggregation control of nanoparticles embedded in thin layers for hybrid materials with tunable optical properties

16.10-16:20	Oral: Tseung-Yuen Tseng, National Chiao Tung University, Taiwan - Enhanced electrochemical properties of nanocomposite supercapacitors by using
4	graphene
16.20-16:30	Oral: Yu-Shun Chen, National Cheng Kung University, Taiwan - Synthesis WS <sub>2</sub> nanosheets from lithium intercalation for hydrogen evolution
	Session III
	Venue: Auditorium B, Conference Centre, Deck 8
	Sensors & Actuators
	y French, TU Delft, Netherlands Co-Chair: Yuki Hasegawa, Saitama University, Japan
14.00-14:20	
14.20-14:40	Invited Lecture: Zhi-Mei Qi, Chinese Academy of Sciences, China - Mirrorless miniature fourier transform spectrometer with algorithmic enhancement of spectral resolution  IAAM Scientists Medal Lecture: Mauro Callejas-Cuervo, Pedagogical and Technological University of Colombia, Colombia - Emotion recognition from
14.40-14:50	physiological signals and videogames to detect personality traits
14.50-15:00 15.00-15:10	IAAM Scientists Medal Lecture: Tapas Maiti, Hiroshima University, Japan - Ground-condition detection with pressure sensor to drive two-leg robot  IAAM Scientists Medal Lecture: Shubhajit Roy Chowdhury, Indian Institute of Technology Mandi, India - Design and simulation of helmholtz coil for a low cost and low magnetic field MRI system
15.10-15:20	
15.20-15:30	Oral: Chu-Sing Yang, National Cheng Kung University, Taiwan - Signal enhancement using PVDF sensor arrays via blind source separation
15.30-15:40	
15.40-15:50	
15.50-16:00	Oral: Guy Ayissi Eyebe, Université du Québec à Trois-Rivières, Canada - CPWG-based humidity sensor with TEMPO oxidized cellulose nanofibers as sensitive dielectric
16.00-16:10	Oral: Vytautas Ostasevicius, Kaunas University of Technology, Lithuania - Innovative sensors and actuators for health support
16.10-16:20	Oral: Samir Haddad, Balamand University, Lebanon - Multi-source energy based routing protocol in sensor networks
16.20-16:30	Oral: Anton Klimenko, The University of Utah, USA - On the coffee ring effect in pseudo-evaporative and non-evaporative diffusive systems
	Session IV
	Venue: B51-52, Conference Centre, Deck 8
	Biomaterials & Biodevices
Chair: Andre	ew Ewing, University of Gothenburg, Sweden Co-Chair: Lu Wang, Donghua University, China
14.00-14:20	IAAM Medal Lecture: Henry Li, University of Manchester, UK - An implantable and controllable drug-release silk fibroin nanofibrous matrix for smart treatment of cancer
14.20-14:40	Invited Lecture: Lu Wang, Donghua University, China - Design and mechanical behaviors of sutureless prototype composite NiTi stent-grafts
14.40-15:00	Invited Lecture: Zari Tehrani, Swansea University, UK - Graphene sensors for protein detection
15.00-15:10	IAAM Scientists Medal Lecture: Fiona Weafer, National University of Ireland, Ireland - Therapy transport into ischemic heart tissue from an implantable reservoir device
15.00-15:10 15.10-15:20	IAAM Scientists Medal Lecture: Fiona Weafer, National University of Ireland - Therapy transport into ischemic heart tissue from an implantable
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15.10-15:20 15.20-15:30 15.30-15:40 15.40-15:50 15.50-16:00 16.00-16:10 16.10-16:20	IAAM Scientists Medal Lecture: Fiona Weafer, National University of Ireland, Ireland - Therapy transport into ischemic heart tissue from an implantable reservoir device  Oral: Tiantian Wu, College of Biosystems Engineering and Food Science, Zhejiang University, China - Formation and characterization of nano/micro particles based on chitosan and alginate for biomaterial delivery  Oral: Bogdan Parakhonskiy, Ghent University, Belgium - Calcium carbonate based platforms for theranostic application  Oral: Fujun Wang, Donghua University, China - Novel structure of PLA fabric combined with PCL to form a composite structure vascular graft  Oral: Maria Isabel Pividori, Autonomous University of Barcelona, Spain - Rapid diagnostic test for celiac disease based on deamidated magnetic peptide a novel biomarker  Oral: Lin Ye, Beijing Institute of Technology, China - The small diameter TEVG scaffold based on heparin modified PCL  Oral: Praveen Kumar S, Saveetha Engineering College, India - Selective adsorbtion of low density lipoprotein from blood using porous silicon  Oral: Jing Lin, Donghua University, China - The preparation and properties of an innovative stent-graft fabric with a local reinforced zone  Oral: Joel Espino, Cinvestav - Unidad Saltillo, Mexico - Sol-gel synthesis of mixed ferrites for biomedical applications  Session V
15.10-15:20 15.20-15:30 15.30-15:40 15.40-15:50 15.50-16:00 16.00-16:10 16.10-16:20 16.20-16:30	IAAM Scientists Medal Lecture: Fiona Weafer, National University of Ireland, Ireland - Therapy transport into ischemic heart tissue from an implantable reservoir device  Oral: Tiantian Wu, College of Biosystems Engineering and Food Science, Zhejiang University, China - Formation and characterization of nano/micro particles based on chitosan and alginate for biomaterial delivery  Oral: Bogdan Parakhonskiy, Ghent University, Belgium - Calcium carbonate based platforms for theranostic application  Oral: Fujun Wang, Donghua University, China - Novel structure of PLA fabric combined with PCL to form a composite structure vascular graft  Oral: Maria Isabel Pividori, Autonomous University of Barcelona, Spain - Rapid diagnostic test for celiac disease based on deamidated magnetic peptide a novel biomarker  Oral: Lin Ye, Beijing Institute of Technology, China - The small diameter TEVG scaffold based on heparin modified PCL  Oral: Praveen Kumar S, Saveetha Engineering College, India - Selective adsorbtion of low density lipoprotein from blood using porous silicon  Oral: Jing Lin, Donghua University, China - The preparation and properties of an innovative stent-graft fabric with a local reinforced zone  Oral: Joel Espino, Cinvestav - Unidad Saltillo, Mexico - Sol-gel synthesis of mixed ferrites for biomedical applications  Session V  Venue: B31-32, Conference Centre, Deck 8
15.10-15:20 15.20-15:30 15.30-15:40 15.40-15:50 15.50-16:00 16.00-16:10 16.10-16:20 16.20-16:30	IAAM Scientists Medal Lecture: Fiona Weafer, National University of Ireland, Ireland - Therapy transport into ischemic heart tissue from an implantable reservoir device  Oral: Tiantian Wu, College of Biosystems Engineering and Food Science, Zhejiang University, China - Formation and characterization of nano/micro particles based on chitosan and alginate for biomaterial delivery  Oral: Bogdan Parakhonskiy, Ghent University, Belgium - Calcium carbonate based platforms for theranostic application  Oral: Fujun Wang, Donghua University, China - Novel structure of PLA fabric combined with PCL to form a composite structure vascular graft  Oral: Maria Isabel Pividori, Autonomous University of Barcelona, Spain - Rapid diagnostic test for celiac disease based on deamidated magnetic peptide a novel biomarker  Oral: Lin Ye, Beijing Institute of Technology, China - The small diameter TEVG scaffold based on heparin modified PCL  Oral: Praveen Kumar S, Saveetha Engineering College, India - Selective adsorbtion of low density lipoprotein from blood using porous silicon  Oral: Jing Lin, Donghua University, China - The preparation and properties of an innovative stent-graft fabric with a local reinforced zone  Oral: Joel Espino, Cinvestav - Unidad Saltillo, Mexico - Sol-gel synthesis of mixed ferrites for biomedical applications  Session V  Venue: B31-32, Conference Centre, Deck 8  Energy & Harvesting Materials
15.10-15:20 15.20-15:30 15.30-15:40 15.40-15:50 15.50-16:00 16.00-16:10 16.10-16:20 16.20-16:30	IAAM Scientists Medal Lecture: Fiona Weafer, National University of Ireland, Ireland - Therapy transport into ischemic heart tissue from an implantable reservoir device  Oral: Tiantian Wu, College of Biosystems Engineering and Food Science, Zhejiang University, China - Formation and characterization of nano/micro particles based on chitosan and alginate for biomaterial delivery  Oral: Bogdan Parakhonskiy, Ghent University, Belgium - Calcium carbonate based platforms for theranostic application  Oral: Fujun Wang, Donghua University, China - Novel structure of PLA fabric combined with PCL to form a composite structure vascular graft  Oral: Maria Isabel Pividori, Autonomous University of Barcelona, Spain - Rapid diagnostic test for celiac disease based on deamidated magnetic peptide a novel biomarker  Oral: Lin Ye, Beijing Institute of Technology, China - The small diameter TEVG scaffold based on heparin modified PCL  Oral: Praveen Kumar S, Saveetha Engineering College, India - Selective adsorbtion of low density lipoprotein from blood using porous silicon  Oral: Jing Lin, Donghua University, China - The preparation and properties of an innovative stent-graft fabric with a local reinforced zone  Oral: Joel Espino, Cinvestav - Unidad Saltillo, Mexico - Sol-gel synthesis of mixed ferrites for biomedical applications  Session V  Venue: B31-32, Conference Centre, Deck 8  Energy & Harvesting Materials  Ing Guo, University of Wollongong, Australia  Co-Chair: Santanu Das, IIT BHU, India  IAAM Scientists Medal Lecture: Zhe Li, Swansea University, UK - Non-fullerene acceptors: A promising solution for more stable, efficient organic solar cells
15.10-15:20 15.20-15:30 15.30-15:40 15.40-15:50 15.50-16:00 16.00-16:10 16.10-16:20 16.20-16:30 Chair: Zaipin 14.00-14:20	IAAM Scientists Medal Lecture: Fiona Weafer, National University of Ireland, Ireland - Therapy transport into ischemic heart tissue from an implantable reservoir device  Oral: Tiantian Wu, College of Biosystems Engineering and Food Science, Zhejiang University, China - Formation and characterization of nano/micro particles based on chitosan and alginate for biomaterial delivery  Oral: Bogdan Parakhonskiy, Ghent University, Belgium - Calcium carbonate based platforms for theranostic application  Oral: Fujun Wang, Donghua University, China - Novel structure of PLA fabric combined with PCL to form a composite structure vascular graft  Oral: Maria Isabel Pividori, Autonomous University of Barcelona, Spain - Rapid diagnostic test for celiac disease based on deamidated magnetic peptide a novel biomarker  Oral: Lin Ye, Beijing Institute of Technology, China - The small diameter TEVG scaffold based on heparin modified PCL  Oral: Praveen Kumar S, Saveetha Engineering College, India - Selective adsorbtion of low density lipoprotein from blood using porous silicon  Oral: Jing Lin, Donghua University, China - The preparation and properties of an innovative stent-graft fabric with a local reinforced zone  Oral: Joel Espino, Cinvestav - Unidad Saltillo, Mexico - Sol-gel synthesis of mixed ferrites for biomedical applications  Session V  Venue: B31-32, Conference Centre, Deck 8  Energy & Harvesting Materials  Ing Guo, University of Wollongong, Australia  Co-Chair: Santanu Das, IIT BHU, India  IAAM Scientists Medal Lecture: Zhe Li, Swansea University, UK - Non-fullerene acceptors: A promising solution for more stable, efficient organic solar cells

Σ	15.10-15:20	IAAM Medal Lecture: Karen Gambaryan, Yerevan State University, Armenia - Narrow bandgap diode heterostructures and photoconductive cells with quantum
C PROGRAN	15.20-15:30	dots for thermophotovoltaic and other mid-infrared applications  IAAM Scientists Medal Lecture: I.N.G. Wardana, Brawijaya University, Indonesia - Hybrid effect of the activated carbon and the CuO catalyst on vegetable oil steam reforming
C PR	15.30-15:40	Oral: Isaac Sanchez, University of Texas, USA - Energy saturation: An alternative mechanism for the glass transition
ENTIFI	15.40-15:50	Oral: Kazuki Wakita, Chiba Institute of Techology, Japan - Photovoltic culnS <sub>2</sub> films by PLD method
SCIE	15.50-16:00	Oral: Po Yen Kung, National Cheng Kung University, Taiwan - Width absorption spectrum excitation plasmonic gold/silver nanoparticles on Fe/ZnO nanorods assisting the enhancement of generate hydrogen by water splitting photochemistry
	16.00-16:10	Oral: loannis Tsiaoussis, Aristotle University Thessaloniki, Greece - Structural investigation of carbon morphology on Ni/cerium-zirconium oxide catalysts used
st 201	16.10-16:20	for the biogas dry reforming reaction  Oral: Bahman Amini Horri, University of Surrey, UK - Gelling synthesis of NiO/YSZ nanocomposite powder for solid oxide fuel cells
August 2017		Oral: Yi-Sheng Lai, National Cheng Kung University, Taiwan - Water splitting solar cells with low diffusion resistance by methyl violet halochromic pigments
22		Session VI
Day - 1: 22		Venue: S22-23, Conference Centre, Deck 8
Da		Computational Materials
	Chair: Hong	Seok Kang, Jeonju University, South Korea Co-Chair: Luis Villamagua, Universidad Técnica Particular de Loja, Ecuador
	14.00-14:20	IAAM Medal Lecture: Hong Seok Kang, Jeonju University, South Korea - Electronic structures and energy applications of inorganic and organometallic layered materials
	14.20-14:40	IAAM Scientists Medal Lecture: Shawqi Al Dallal, Ahlia University, Bahrain - Size dependent nonlinear absorption and refractive index coefficients of PbS quantum dots dispersed in toluene
	14.40-15:00	IAAM Scientists Medal Lecture: Nirupam Chakraborti, Indian Institute of Technology Kharagpur, India - Data-driven evolutionary optimization in materials science
	15.00-15:10	IAAM Scientists Medal Lecture: Luis Villamagua, Universidad Técnica Particular de Loja, Ecuador - Change of the electrical and magnetic properties of SnO <sub>2</sub> when doped with increasing concentrations of Zn and Sb atoms
	15.10-15:20	Oral: Reyes Flores, National Autonomous University of Mexico, Mexico - High-spin graphene nanoflakes for molecular-magnets
	15.20-15:30	Oral: Yun-I Ho, National Cheng Kung University, Taiwan - Electronic transport properties in transition-metal oxide based heterostructures: First-principles calculations
	15.30-15:40	Oral: Zhang Min, Xi'an University of Technology, China - Simulation on dendrite growth during solidification of Ti-45%Al alloy in the weld pool
	15.40-15:50	Oral: Zhi - Yi Wang, National Cheng Kung University, Taiwan - Geometric and electronic properties of Sn-based organic-inorganic hybrid perovskite solar cell: A first-principles analysis
	15.50-16:00	Oral: Eivind Bering, Norwegian University of Science and Technology, Norway - A simulation approach to creep in extended and nanometric polymeric fibres
	16.00-16:10	Oral: Lin Kuan Bo, National Cheng Kung University, Taiwan - Interface effects on quantum transport through ultrathin dielectric films: A First-principle study
	16.10-16:20	Oral: Hyunsu Moon, Yonsei University, South Korea - Prediction of deflection distribution from strains using artificial neural network and optimization of sensor placement using genetic algorithm
	16.20-16:30	Oral: Javaid Butt, Anglia Ruskin University, UK - Finite element modelling and thermomechanical analysis of layered aluminium parts made by composite metal foil manufacturing
	16.30-17.30	IAAM Felicitation and Welcome Ceremony at Club Mar, Deck-7
	18.00-19.30	Poster Session at Conference Center, Deck-8
	18.00-19.30	Parallel Sessions 1-2-3-4, Venue: Conference Centre, Deck 8
7		Session I
201		Venue: Auditorium A, Conference Center, Deck-8
gus		Medical Materials & Clinal Technology
2 Au	Chair: Ya Dir	ng, China Pharmaceutical University, China and Rohidas Arote, Seoul National University, South Korea
Day - 1: 22 August 201	18.00–18.20	IAAM Scientists Medal Lecture: Rohidas Arote, Seoul National University, South Korea - Receptor mediated endocytosis of multifunctional polylactitol-based gene transporter with siOPA1 for liver cancer therapy
Day	18.20–18.40	Invited Lecture: Hui Lan, Chinese University of Hong Kong, Hong Kong - Diverse role of smads in cardiac remodeling: Mechanisms and therapeutic implications
	18.40–18.50	Oral: Hui Lan, Chinese University of Hong Kong, Hong Kong - Smad3 is essential for the development of type 2 diabetic kidney disease
	18.50-19.00	Oral: Yunfeng Zhou, Shenzhen University, China - Cytochrome P450 4A14, a target for the treatment of renal fibrosis
	19.00–19.10	Oral: Liang Chu, Huazhong University of Science and Technology, China - SNORD126 promotes hepatocellular carcinoma and colorectal cancer cell growth by activating the Pl3K-AKT pathway through FGFR2
	19.10-19.20	Oral: Yogesh Shukla, Maharashtra University of Health Sciences, India - Conundrum of right atrial mass
	19.20–19.30	Oral: Grace George, Walter Sisulu University, South Africa - Functional nutrition to modulate oxidative stress in Type 2 diabetes and its complications in South Africa
117		Session II
August 2017		Venue: Auditorium B, Conference Center, Deck-8
ngn		Medical Materials & Clinal Technology
: 22 A	Chair: Henry	Li, University of Manchester, UK Co-Chair: Mohammadreza Kolahdouz, University of Tehran, Iran

18.00–18.10 Oral: Biao Lu, Santa Clara University, USA - Engineering dual-tagged transmembrane reporters for exosome tracking

18.10–18.20 Oral: Jaroslav Kristof, Shizuoka University, Japan - Feasibility of transdermal delivery by microplasma discharge

Oral: Jostein Grip, University of Tromso, Norway - Development of a novel wound healing spray: soluble beta-1,3/1,6-glucan as an active ingredient in Carbopol matrix in a db/db wound model

Σ	18.30–18.40	Oral: Petra Perner, Institute of Computer Vision and Applied Computer Sciences IBal, Germany - Health monitoring by automated probe handling,
SCIENTIFIC PROGRAM	18.40–18.50	microscopic imaging and image interpretation system – A system for airborne fungi identification  Mohammad Agha, University of Toronto, Canada - Congenital abnormalities in newborns of women with pre-gestational diabetes: A time-trend analysis,
C PR		1994-2009  Oral: Suyan Shan, Wenzhou Medical University, China - Functionalized graphene hybrids as highly targeted drug delivery carriers towards choroidal melanoma
F		Oral: Yulia Svenskaya, Saratov State University, Russia - Porous biodegradable submicron particles for efficient transdermal drug delivery
SCIE		Oral: Mohammadreza Kolahdouz, University of Tehran, Iran - Diabetes diagnosis through human respiratory using field emission of Al:ZnO nanorods
	19.20–19.30	Oral: Bhupen Kalita, Girijananda Chowdhury Institute of Pharmaceutical Science, India - Essential oils loaded polymeric dermal patch for prolonged repellant effect against mosquitoes
it 201		Session III
sngn		Venue: B51-52, Conference Center, Deck-8
- 1: 22 August 2017		Thin Film & Coating Materials Technology
¥-1	Chair: Shaur	a Robbennolt, Autonomous University of Barcelona, Spain Co-Chair: Biplab Paul, Linkoping University, Sweden
Day	18.00–18.20	IAAM Medal Lecture: Stephan Armyanov, Bulgaria - Electroless deposited ternary alloys: Third element chemical state, localization, and influence on the properties
	18.20–18.40	IAAM Scientists Medal Lecture: Shauna Robbennolt, Autonomous University of Barcelona, Spain - Structural and magnetic properties of Fe-based nanoporous thin films
	18.40-19.00	$\textbf{Invited Lecture: Biplab Paul, Linkoping University, Sweden -} \ Fully inorganic flexible \ Ca_3Co_4O_9 \ thin films for wearable thermoelectric applications$
	19.00-19.20	Invited Lecture: Miki Hasegawa, Aoyama Gakuin University, Japan - Molecular design strategies for the enhancement of the on-demand luminescence of rare earth compounds
	19.20–19.30	Oral: Iryna Smokovych, Otto-von-Guericke University Magdeburg, Germany - Particle-filled polysilazane-type PDC coatings on titanium metal
17		Session IV
st 20		Venue: B31-32, Conference Center, Deck-8
ngn		Medical Materials & Clinal Technology
Day - 1: 22 August 2017		Singh, Ministry of Earth Science, Govt. of India, India and Zeev Co-Chair: Silvia Dante, Istituto Italiano di Tecnologia, Italy
Jay	18.00–18.20	IAAM Scientists Medal Lecture: Zeev Zalevsky, Bar Ilan University, Israel - Nano-particles based novel schemes for super-resolved imaging, medical diagnosis & treatment
	18.20–18.40	Invited Lecture: Abbas Abbas, Cairo University, Egypt - Use of differentiated mesenchymal stem cells in treatment of experimental diabetes type I
	18.40–18.50	Oral: Muhammad Ansari, Bahauddin Zakariya University, Pakistan - Preparation and characterization of ternary complexes of gliclazide with hydroxypropul-β-cyclodextrin and sodium taurocholate  Oral: Seyed Masoud Arzaghi, Tehran University of Medical Sciences, Iran - Type II diabetes and personality; a study to explore other psychosomatic aspects of
	18.50–19.00	diabetes  Oral: Doha Berraaouan, Laboratory of Physical Chemistry of Natural Ressources and Environnement, Morocco - Effect of calcium chloride on rheological
	19.00–19.10 19.10–19.20	behavior of sodium alginate  Oral: Barkat Khan, Gomal University, Pakistan - Optimizing the role of polymer blend, preparation and evaluation of acyclovir controlled-release tablets by wet
		granulation technique  Oral Kampah Shukla Addi. Lagal Advisor to the Harible Covernor LIP India. Lagal consets of innovations & compatition intellectual property rights.
	19.20–19.30	Oral: Kamesh Shukla, Addl. Legal Advisor to the Hon'ble Governor UP, India - Legal aspects of innovations & compatition-intellactual property rights  Oral: Sreyansh Tiwari, Internternational English School Linkoping, Sweden - Diabetes: History & current status
		Oral: Tej Dedjo Ramon Engmark, Swedish Social Democratic Party, Sweden - Social impact of technology
	20.00-21.30	Dinner at Viking Buffet, Deck 7
	21.30-22.30	Entertainment at Club Mar, Deck 7
2017		Day - 2: Wednesday, 23 August 2017, M/S Mariella, Viking Line, Sweden
Day - 2: 23 August 2017	07.30-08.45	Breakfast at Viking Buffet, Deck 7
Aug	09.00-10.30	Plenary Session, Venue: Club Mar, Deck 7
2: 23		Chair(s): Luis Manuel Liz Marzán, CIC biomaGUNE, San Sebastián, Spain and Liberato Manna, Istituto Italiano di Tecnologia, Italy
ay -	09.00-09.40	European Advanced Materials Award Lecture: Andrew Ewing, University of Gothenburg, Sweden - The chemical structure of cell membranes and nanometer vesicles in cells
	09.40-10.20	Graphene Award Lecture: Robert Hurt, Brown University, USA - Graphene-based breathable barriers for multifunctional fabrics
	10.20-10.45	IAAM Medal Lecture: H. Purushotham, Ministry of Science & Technology, Govt. of India, India - Commercializing advanced materials technologies from Indian R&D institutions to industry: Challenges and case studies
	10.45-11.00	Coffee Break at Conference Center, Deck-8
	11.00-12.30	Parallel Sessions 1-2-3-4-5, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8
		Session I
		Venue: Club Mar, Deck 7
		Nanogenerators & Piezotronics: Semiconductor and Ferroelectric Nanomaterials
		nang, University of Science and Technology Beijing, China and Sang- ngkyunkwan University, South Korea  Co-Chair: Renyun Zhang, Mid Sweden University, Sweden
	11.00-11.30	IAAM Scientists Medal Lecture: Nelson Sepulveda, Michigan State University, USA - The ferro electret nano generator

11.30-11.50 Invited Lecture: Chi Zhang, Chinese Academy of Sciences, China - Tribotronics a new field by coupling triboelectricity and semiconductor

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RAM	11.50-12.00	IAAM Medal Lecture: Weiguo Hu, Beijing Institute of Nanoenergy and Nanosystems, China - Piezotronic and piezo-phototronic effects in III-Nitrides
SOGI	12.00-12.10	Oral: Xuedong Bai, Chinese Academy of Sciences, China - Lateral piezopotential-gated field-effect transistor of ZnO nanowires
2 F	12.10-12.20	Oral: Chunhua Du, Chinese Academy of Science, China - Piezo-phototronic effect controlled visible light communication (PVLC) using InGaN/GaN light-emitting diodes
Ē	12.20-12.30	Oral: Sung Soo Kwak, SungKyunKwan University, South Korea - Large electric power generation from a single droplet on monolayer graphene on
SCIENTIFIC PROGRAM	12:20 12:00	triboelectrified polytetrafluoroethylene Session II
		Venue: Auditorium A, Conference Center, Deck-8
2017		Nanomaterials & Nanotechnology
23 August 2017	Chair: Stoyk	o Fakirov, The University of Auckland, New Zealand  Co-Chair: Eduardo Brocchi, Pontifical Catholic University of Rio de Janeiro, Brazil and Kalawati Saini, University of Delhi, India
23 A	11.00-11.20	IAAM Medal Lecture: Ya Ding, China - Drug-conjugated gold nanoparticles and their hybrid liposomes for liver tumor treatment
Day - 2:	11.20-11.40	Invited Lecture: Hisatoshi Kobayashi, National Institute for Materials Science, Japan - PGA/collagen composite nanofiber scaffold for chronic wound care
۵	11.40-12.00	Invited Lecture: Gil Rosenman, Tel Aviv University, Israel - Visible peptide nanodots: Nanotechnology, physics and biomedical applications
	12.00-12.20	Invited Lecture: Valerio Voliani, Istituto Italiano di Tecnologia, Italy - From biological to catalysis applications of biodegradable inorganic nano-architectures
	12.20-12.30	Oral: Tomaz Einfalt, University of Basel, Switzerland - Catalytic nanocompartments as artificial cell organelles
17		Session III
23 August 2017		Venue: Auditorium B, Conference Center, Deck-8
ingn		Global Graphene Forum: Growth, Synthesis and Characterizations
23 A	Chair: Kyung	g-Suk Kim, Brown University, USA Co-Chair: Xinjian Chen, University of Utah, USA
- 5	11.00-11.10	Introduction of Symposium Organisers: Ashutosh Tiwari, Mikael Syväjärvi, J. Andreas Larsson and Camilla Coletti
Day	11.10-11.30	Invited Lecture: Wei Li, The University of Texas at Austin, USA - Roll-to-roll transfer and adhesion energy measurement of As-grown graphene
	11.30-11.40	IAAM Scientists Medal Lecture: Valentina Cantatore, Chalmers University of Technology, Sweden - Boron-doped graphene for multifunctional coating
	11.40-11.50	Oral: Lilia Woods, University of South Florida, USA - Interlayer interactions in the graphene family
	11.50-12.00	Oral: Ana Proykova, Sofia University, Bulgaria - Magnetism of bilayer graphene with vacancies
	12.00-12.10	Oral: Maria Rosaria Acocella, University of Salerno, Italy - Graphene functionalization as efficient tool to improve the thermomechanical stability and crystallization rate of biodegradable polyester nanocomposites
	12.10-12.20	Oral: Angela Gallardo-Lopez, University of Seville, Spain - Enhancing processing, microstructure and properties of graphene/3YTZP ceramic composites
	12.20-12.30	Oral: Michal Baranowski, University of Szczecin, Poland - Copper powder coated with graphene
		Session IV
t 201		Venue: B51-52, Conference Center, Deck-8
snbr		Biosensor & Bioelectronic Materials
Day - 2: 23 August 2017	National Chu	u Yang, Wuhan University of Technology, China and Gou-Jen Wang, Ing-Hsing University, Taiwan  Co-Chair: Andrea Barbetta, University of Rome "La Sapienza", Italy and Chaitanya Indira, CMR Institute of Technology, India  IAAM Medal Lecture: Gou-Jen Wang, National Chung-Hsing University, Taiwan - A novel biosensor electrode with self-assembled gold nanoparticles on a micro hemisphere array
Δ	11.20-11.40	Invited Lecture: Yaroslav Korpan, Institute of Molecular Biology and Genetics NAS, Ukraine - Metabolomics on electrodes a new evolutionary step in sensing and sensitivity
Π	11.40-11.50	IAAM Scientists Medal Lecture: Chaitanya Indira, CMR Institute of Technology, India - Amperometric catechol biosensor based on metal-oxide nanocrystal sensitized graphite electrodes
	11.50-12.00	Oral: Jin Ouyang, Beijing Normal University, China - Application of novel nanomaterials in bioanalysis and biosensing
	12.00-12.10	Oral: Miyuki Tabata, Tokyo Medical and Dental University, Japan - Label-free nucleic acid amplification detection using micro pH devices
	12.10-12.20 12.20-12.30	Oral: Zeynep Altintas, Cranfield University, Germany - Electrochemical sensing of computationally simulated disease biomarkers using epitope imprinting Oral: Saad Ramadhan, University of Exeter, UK - Fast and highly sensitive ionic polymer gated WS <sub>2</sub> -graphene photodetectors
7		Session V
23 August 2017		Venue: B31-32, Conference Center, Deck-8
snbr		Energy & Harvesting Materials
23 At	Chair: Isaac	Sanchez, University of Texas, USA  Co-Chair: Zhe Li, Swansea University, UK
		IAAM Medal Lecture: Zaiping Guo, University of Wollongong, Australia - Hybrid nanostructures for lithium and sodium storage
Day - 2:		IAAM Scientists Medal Lecture: Santanu Das, IIT BHU, India - Graphene nanocomposites for energy harvesting and storage applications
		Oral: Rui Liu, Harbin Engneering University, China - Enhanced conversion efficiency of dye-sensitized solar cells using Sm <sub>2</sub> O <sub>3</sub> -modified TiO <sub>2</sub> nanotubes
		Oral: Mickael Pruvost, ESPCI Paris, France - Materials with variable permittivity for vibrational energy harvesting
	12.00-12.10	Oral: Mario Vebber, Universidade de Caxias do Sul, Brazil - Hydrogen production by photocatalytic water-splitting using PAH/PAA/TiO <sub>2</sub> /chlorophyllin self-assembled thin films
	12.10-12.20	Oral: Yingfei Yao, Soochow University, China - A self-powered smart wireless sensing network for identifing vibration events based on hybrid energy harvesters

11.30-11.30 Oral: Faai Zhang, Guilin University of Technology, China - Confinement effect of mesoporous silicas on bulk ARGET ATRP of styrene Oral: Anand Balaji, The University of Technology, China - Confinement effect of mesoporous silicas on bulk ARGET ATRP of styrene Oral: Anand Balaji, The University of Technology, China - Confinement effect of mesoporous silicas on bulk ARGET ATRP of styrene Oral: Anand Balaji, The University of Nortingham, Malaysia - Investigation of efficient virol acetate (EVA) efficient propylene dene monomer (Figure 120-121) Oral: Carlos Aramolde Cruz, Institute of Separative Chemistry of Marcoule, France - Superchelating resins for extraction and recycling of elements of init 220-1230 Oral: Carlos Aramolde Cruz, Institute of Separative Chemistry of Marcoule, France - Superchelating resins for extraction and recycling of elements of init 220-1230 Oral: Carlos Aramolde Cruz, Institute of Separative Chemistry of Marcoule, France - Superchelating resins for extraction and recycling of elements of init 220-1230 Oral: Carlos Aramolde Cruz, Institute of Separative Chemistry of Marcoule, France - Superchelating resins for extraction and recycling of elements of init 220-1230 Oral: Carlos Aramolde Cruz, Institute of Marcoule, France - Superchelating resins for extraction and recycling of elements of init 220-1230 Oral: Carlos Aramolde Cruz, Institute of Marcoule, France - Superchelating resins for extraction and recycling of elements of init 220-1230 Oral: Carlos Aramolde Cruz, Institute of Marcoule, France - Superchelating resins for extraction and recycling of elements of init 220-1230 Oral: Carlos Aramolde Cruz, Institute of Marcoule, France - Enternology, Oral Control - Oral Carlos Oral - Oral		efficiency
Chair: Glus-eppe Barbiert, TTM CNR, Italy Co-Chair: Chu-Sing Yang, National Cheng Kung University, Taiwan 11.00-11.20 whited Lecture: Xing Pu, Chinese Academy of Science, China - Textile-based energy harvesting and energy storage chairs of the Mark Optic, Cernam Aerospace Center, Cernamy - Are low-cost foam materials suitable for RTM large-scale production? - A method for material 11.20-11.40 Orad: Mahamadou Seydou, Paris Diderout University, France - Energetics and electroic properties of graphene decorated by functional conjugated molecule 11.20-11.40 Orad: Mahamadou Seydou, Paris Diderout University, France - Energetics and electroic properties of graphene decorated by functional conjugated molecule 11.20-11.40 Orad: Mahamadou Seydou, Paris Diderout University, Parance - Energetics and electroic properties of graphene decorated by functional conjugated molecule 11.20-12.40 Orad: Anamad Balaj, The University of Technology, China - Confinement effect of mesoprorus silicus on but ARCET ATRY of syrene Orad: Anamad Balaj, The University of Science & Technology, China - The syrhosis and characterization of a heart-science in Science and Centerology, China - The syrhosis and characterization of a heart-science in Science and Centerology, China - The syrhosis and characterization of a heart-science in Science and Centerology, China - The syrhosis and characterization of a heart-science in Science and Centerology, China - The Syrhosis and Centerology China - The State Oragina Paris and Centerology China - The Syrhosis and Centerology China - The		Session VI
Thair: Glause-ppe Barbiert, TM-CNR, Italy  Co-Chair: Chu Sing Yang, National Cheng Kung University, Taiwan  Intol 12  Invited Lacture; Xiong Pu, Chinese Academy of Science, China - Totalie-based energy harvesting and energy storage  Oral: Mark Ogitz, German Aerospace Center, Germany - Are bevocent form materials suitable for RTM large-scale production? - A method for material  1:10-11-10  Oral: Mahamadou Seydou, Paris Differed University, France - Energetica and electronic progenities of grapheme decorated by functional conjugated molecule  1:10-10-10  Oral: Anand Stala; The University of Enchology, China - Confinement effect of encapromass silicas on bials ARGET ATP of engreen  Oral: Anand Stala; The University of Science & Technology, China - The synthesis and characterization of a heat-resistant Si-containing anyletic  Oral: Farrong Huang, East China University of Science & Technology, China - The synthesis and characterization of a heat-resistant Si-containing anyletic  Oral: Farrong Huang, East China University of Science & Technology, China - The synthesis and characterization of a heat-resistant Si-containing anyletic  Oral: Science Area Anand Stala; Wenthout Medical University of Science & Technology, China - The synthesis and characterization of a heat-resistant Si-containing anyletic  Oral: Science Area Anand Stala; Wenthout Medical University, China - Hagnetic graphere hybrids promote neurite originavit via magnetic stimulation  12:20-12:30  Oral: Stalau Dong, Wenthout Medical University, China - Hagnetic graphere hybrids promote neurite originavit via magnetic stimulation  13:20-13:30  Oral: Stalau Dong, Wenthout Medical University, China - Hagnetic graphere hybrids promote neurite originavity via magnetic stimulation  14:20-13:30  Oral: Stalau Dong, Wenthout Medical University, Orale Anand China Tung Anald Anand China Tung Anald Anand China Tung Anald China Tung An		Venue: S22-23, Conference Center, Deck-8
11.20-11.20 Invited Lecture: Xiong Pu, Chinese Academy of Science, China - Textile-based energy harvesting and energy storage Graft Mark Optit, German Acrespace Center, Germany - An low cost from materials suitable for RTM large-scale production? - A method for material characterization under enable boundary process conditions Oral: Mark Optit, German Acrespace Center, Germany - An low cost from materials suitable for RTM large-scale production? - A method for material characterization under enable boundary process conditions Oral: Mark Optit, German Acrespace Center, Optit Production of Control Production of		World Technology Forum
Ord: Mark Opt: Comman Aerespace Center, Cernany - Are low-cost foam materials suitable for RTM targe-scale production? - A method for material of suitable for RTM targe-scale production? - A method for material of suitable for RTM targe-scale production? - A method for material of suitable for RTM targe-scale production? - A method for material of suitable for RTM targe-scale production? - A method for material of suitable for RTM targe-scale production? - A method for material of suitable for RTM targe-scale production? - A method for material of suitable for RTM targe-scale production? - A method for material of suitable for RTM targe-scale production? - A method for material of suitable for RTM targe-scale production of suitable for suitable for RTM targe-scale production of season publication of suitable for RTM targe-scale production of season publication of suitable for RTM targe-scale production of season publication of suitable scale production of season publication of suitable scale product	Chair: Giuse	eppe Barbieri, ITM-CNR, Italy Co-Chair: Chu-Sing Yang, National Cheng Kung University, Taiwan
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11.40-11.50 Oral: Faal Zhang, Guillin University of Technology, China - Confinement effect of mesoporous silicas on bulk ARGET ATRP of styrene Oral: Anand Balaij, The University of Nottingham, Malaysia - Investigation of ethylene virryl acotate (EVA) ethylene propylene diene mocomar (12.00-12.10 Oral: Farong Huang, East China University of Science & Technology, China - The synthesis and characterization of a heat-resistant S-containing anylethe 12.00-12.10 Oral: Carlos Arrambide Cruz, Institute of Separative Chemistry of Marcoule, France - Superchelating resins for extraction and recycling of elements of int 12.00-13.30 Lunch at Yiking Buffel, Dock 7  13.30-15.30 Sightseeing in Helisinki Parliament Building, Museum of Modern Art The Stumingly designed Rock Church Olympic Stadium from the 1932 games Helsinki Lutheran and Uspenski Orthodox Cathedrals  16.00-17.30 Parallel Sessions 1-2-3-4-5, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8  Session I  Venue: Club Mar, Dock 7  Nanogenerators & Rieccionics: Harvestraing Multiscale Energies  Chair: Welguo Hu, Beijing Institute of Nanoenergy and Nanosystems, China - Co-Chair: Youfan Hu, Peking University, China  16.00-16.30 RAS Scientists Modal Lecture: Churwen Sun, Beijing Institute of Nanoenergy and Nanosystems, China - Plezophotoronics devices and applications  16.00-17.00 Oral: Jihoon Chung, Chung-Ang University, South Korea - Enhanced output performance of P/VDF-TFE) based energy harvested by miboelection-solvent of the Church Chung-Ang University, South Korea - Enhanced output performance of P/VDF-TFE) based energy harvesters using high dpole mome solvent in the Chung-Ang University, South Korea - Enhanced output performance of P/VDF-TFE) based energy harvesters using high dpole mome solvent in the Chung-Ang University, South Korea - Enhanced output performance of P/VDF-TFE) based energy harvesters using high dpole mome solvent in the Chung-Ang University, South Korea - Enhanced output performance of P/VDF-TFE) based energy harvesters using high dpole mome	11.20-11.30	
Oral: Annot Bally, The University of Nottingham, Malaysia - Investigation of ethylene viroly accisite (EVA): ethylene propylene dene monomer (EVA)  Oral: Farong Huang, East China University of Science & Technology, China - The synthesis and characterization of a heat-resistant Si-containing anylente and proposed proposed proper proper in the state of Separative Chemistry of Marcoule, France - Superchelating resins for extraction and recycling of elements of int 12:00-12:20  Oral: Carlos Arrambide Cruz, Institute of Separative Chemistry of Marcoule, France - Superchelating resins for extraction and recycling of elements of int 12:00-12:20  Internative Viking Buffet, Deck 7  Separative China - Magnetic graphene hybrids promote neurite outgrowth via magnetic stimulation (12:00-13:30)  Lurch at Viking Buffet, Deck 7  The Stunningly designed Rock Church Olympic Saddium from the 1952 games   Helsinki Lutheran and Uspenski Orthodox Cathedrals    16,00-17:30  Parallel Sessions 1-2-3-45, Venue: Club Mar, Deck 7 and Conference Centre, Deck B  Session I  Venue: Club Mar, Deck 7  Nanogenerators a, Piecotronics: Harvesting Multiscale Energies  Chair: Welguo Hu, Beijing Institute of Nanoenergy and Nanosystems, China - Co-Chair: Yorfan Hu, Peking University, China    16,00-16:30  IAMA Scientists Modal Lecture: Churwen Sun, Beijing Institute of Nanoenergy and Nanosystems, China - Efficient storing energy harvested by triboelect nanogenerators using a sele and durable all-solid-state socium-ion battery    16,00-17:00  Oral: Jihove Kim, Sungkyunkvan University, South Korea - Enhanced output performance of PtVDF-TrFE) based energy harvesters using high dipole mone special control of the proposed control of Nanoenergy and Nanosystems (China - Piezophotoronics devices and applications Oral: Jihove Kim, Sungkyunkvan University, South Korea - Relieps sheet driven intoelectric nanogenerator    17,00-17:00  Oral: Jihove Kim, Sungkyunkvan University, South Korea - Relieps sheet driven intoelectric nanogenerator    18,00-16:20  Nanoenerg	11.30-11.40	Oral: Mahamadou Seydou, Paris Diderot University, France - Energetics and electronic properties of graphene decorated by functional conjugated molecules
(EPDMijrolypopypolypeine (PP) temasy polymer mixture using aimplex centroid design  12:00-12:10	11.40-11.50	Oral: Faai Zhang, Guilin University of Technology, China - Confinement effect of mesoporous silicas on bulk ARGET ATRP of styrene
12.10-12.20 Oral: Carlos Arrambide Criuz, Institute of Separative Chemistry of Marcoule, France - Superchelating resins for extraction and recycling of elements of int 12.20-12.30 Oral: Kalun Dong, Wenzhou Medical University, China - Magnetic graphene hybrids promote neurite outgrowth via magnetic stimulation 12.20-13.30 - Chair Salun Dong, Wenzhou Medical University, China - Magnetic graphene hybrids promote neurite outgrowth via magnetic stimulation 12.20-13.30 - Chair Salun Dong, Wenzhou Medical University, China - Magnetic graphene hybrids promote neurite outgrowth via magnetic stimulation 12.20-13.30 - Chair Salun Dong, Wenzhou Medical University, China - Magnetic graphene hybrids promote neurite outgrowth via magnetic stimulation 12.20-13.30 - Chair Salun Dong, Wenzhou Medical University Salun	11.50-12.00	
12.20-13.30 Crai: Kalun Dong, Wenzhou Medical University, China - Magnetic graphene hybrids promote neurite outgrowth via magnetic stimulation 12.20-13.30 Lunch at Viking Burfet, Deck 7 13.30-15.30 Sightseeing in Helsinki Parliament Building, Museum of Modern Art The Stunningly designed Rock Church Olympic Stadium from the 1952 games Helsinki Lutheran and Uspenski Orthodox Cathedrals 16.00-17.30 Parallel Sessions 1-2-3-4-5, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8  Session I Venue: Club Mar, Deck 7  Nanogenerators & Piezotronies: Harvesting Mutiscale Energies  Chair: Weiguo Hu, Beijing Institute of Nanoenergy and Nanosystems, China Co-Chair: Youfan Hu, Peking University, China 16.00-16.30 Inagenerators using a side and durable all celicid-takes sodium-ton battery  Inc. 16.30-16.50 Invited Lecture: Junyi Zhai, Beijing Institute of Nanoenergy and Nanosystems, China - Piezophototronics devices and applications 16.30-16.50 Invited Lecture: Junyi Zhai, Beijing Institute of Nanoenergy and Nanosystems, China - Piezophototronics devices and applications 16.30-16.50 Invited Lecture: Junyi Zhai, Beijing Institute of Nanoenergy and Nanosystems, China - Piezophototronics devices and applications 16.30-16.50 Invited Lecture: Junyi Zhai, Beijing Institute of Nanoenergy and Nanosystems, China - Piezophototronics devices and applications 16.30-16.50 Invited Lecture: Junyi Zhai, Beijing Institute of Nanoenergy and Nanosystems, China - Piezophototronics devices and applications 16.30-16.50 Invited Lecture: Junyi Zhai, Beijing Institute of Nanoenergy and Nanosystems, China - Piezophototronics devices and applications 16.30-16.50 Invited Lecture: Junyi Zhai, Beijing Institute of Nanoenergy and Nanosystems, China - Piezophototronics devices and applications 16.30-16.50 Invited Lecture: Standard Nanoenergy And Nanosystems, China - Piezophototronics devices and applications 16.30-16.50 Invited Lecture: All Purples of Piezophotory, South Korea - Roll-type sheed driven tribolectric nanogenerator 16.30-16.30 Invited Standar	12.00-12.10	arylacetylene resin
12.00-13.30 Lunch at Viking Buffet, Deck 7  13.30-16.30 Sightseeing in Helsinki Parliament Building, Museum of Modern Art The Stunningly designed Rock Church Olympic Stadium from the 1952 games Helsinki Lutheran and Uspenski Orthodox Cathedrals  16.00-17.30 Parallel Sessions 1-2-3-4-5, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8  Session I  Venue: Club Mar, Deck 7  Nanogenerators & Piezotronics: Harvesting Multiscale Energies  Chair: Weigu- bu, Beijing Institute of Nanoenergy and Nanosystems, China - Co-Chair: Cydufan Hu, Peking University, China  16.00-16.30 IAMS Scientists Medal Lecture: Churwen Sun, Beijing Institute of Nanoenergy and Nanosystems, China - Efficient storing energy harvested by triboelect nanogenerators using a safe and durable all-solid-state sodium-ton battery  16.30-16.50 Invited Lecture: Junyl Zhai, Beijing Institute of Nanoenergy and Nanosystems, China - Piezophototronics devices and applications  16.50-17.00 Orat: Jihye Kim, Sungkyunkwan University, South Korea - Enhanced output performance of PVDF-TriFE) based energy harvesters using high dipole more solvent  17.00-17.10 Orat: Banseok Kim, Chung-Ang University, South Korea - Roll-type sheet driven triboelectric nanogenerator  17.10-17.20 Orat: Banseok Kim, Chung-Ang University, South Korea - Roll-type sheet driven triboelectric nanogenerator  17.10-17.20 Orat: Banseok Kim, Chung-Ang University, South Korea - Roll-type sheet driven triboelectric nanogenerator  17.10-17.20 Orat: Banseok Kim, Chung-Ang University, South Korea - Roll-type sheet driven triboelectric nanogenerator  18.00-16.20 IAM Medal Lecture: Leon Chua, University of California, USA - Ten things you didn't low a boat of memistors  Venue: Auditorium A, Conference Center, Deck-8  Nanomaterials & Nanoteatenology  Oc-Chair: Min Wu, Chinese Academy of Sciences, China and Tseung-Yuen Tseung, National Chiao Tung University, Talwan  16.00-16.20 IAM Medal Lecture: Kalawati Sani, University of Delhi, India - Green synthesis of ZnO nanoparticuter dmst for application in ADP	12.10-12.20	Oral: Carlos Arrambide Cruz, Institute of Separative Chemistry of Marcoule, France - Superchelating resins for extraction and recycling of elements of inte
13.30-15.30 Sightseeing in Helsinki Parliament Building, Museum of Modern Art The Stunningly designed Rock Church Oympic Stadium from the 1932 games Helsinki Lutheran and Uspenski Orthodox Cathedrals 16.00-17.30 Parallel Sessions 1-2-3-4-5, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8 Session I Venue: Club Mar, Deck 7 Nanogenerators & Piezotronics: Harvesting Multiscale Energies  Chair: Weigu- Hu, Beijing Institute of Nanoenergy and Nanosystems, China Co-Chair: Youfan Hu, Peking University, China 16.00-16.30 Inagoneerators sting a sake and durable all-solid-state social-in-obstemy 16.30-16.50 Invited Lecture: Junyi Zhai, Beijing Institute of Nanoenergy and Nanosystems, China - Piezophototronics devices and applications 16.50-17.00 Oral: Jihye Kim, Sungkyunkwan University, South Korea - Feinhanced output performance of PyUPF-TirEF) based energy harvesters using high dipole more solid-vent in the street of	12.20-12.30	Oral: Kalun Dong, Wenzhou Medical University, China - Magnetic graphene hybrids promote neurite outgrowth via magnetic stimulation
Parliament Building, Museum of Modern Art   The Stunningly designed Rock Church   Olympic Stadium from the 1952 games   Helsinki Lutheran and Uspenski Orthodox Cathedrals	12.00–13.30	Lunch at Viking Buffet, Deck 7
The Stunningly designed Rock Church Olympic Stadium from the 1952 games Helainki Lutheran and Uspenski Orthodox Cathedrals  16:00-17:30 Parallel Sessions 1-2-3-4-5, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8  Session I  Venue: Club Mar, Deck 7  Nanogenerators & Piezotronics: Harvesting Multiscale Energies  Chair: Weigu- Utu, Beijing Institute of Nanoenergy and Nanosystems, China C-Chair: Youfan Hu, Peking University, China  16:00-16:30 AAM Scientists Medal Lecture: Chunwen Sun, Beijing institute of Nanoenergy and Nanosystems, China - Efficient storing energy harvested by triboelec inappearations using a safe and durable all-solid-state sodium-ion battery  16:50-17:00 Invited Lecture: Junyl Zhal, Beijing institute of Nanoenergy and Nanosystems, China - Piezophototronics devices and applications  16:50-17:00 Oral: Jihye Kim, Sungkyunkwan University, South Korea - Enhanced output performance of P(VDF-T/FE) based energy harvesters using high dipole mone solvent  17:00-17:10 Oral: Jihoon Chung, Chung-Ang University, South Korea - Harvesting high-speed rotational energy through portable triboelectric nanogenerator  17:00-17:20 Oral: Seong Min Kim, SungKyunkwan University, South Korea - Analytical study on piezoelectric effects on exciton generation  Session II  Venue: Auditorium A, Conference Center, Deck-8  Nanomaterials & Nanotechnology  Chair: Nils Almyvist, Lulea University of Technology, Sweden Sciences, China and Tseung-Yuen Tseng, National Chiao Tung University, Taiwan  16:00-16:20 AAM Medal Lecture: Stoylor Fakirov, IAAM Medal Lecture, New Zealand - The 'converting instead of adding concept' for preparation of polymer Incocomposites  16:40-17:00 AAM Scientists Medal Lecture: Maria Elena Fragala, University of Catania, Italy - ZnO based nanostructured mats for application in AOP water treatments in wite decrease in the Catania Analysis of Synthetic giant unilamellar vesicles (GUVs)  17:00-17:00 ACR Scientists Medal Lecture: Maria Elena Fragala, University of Catania, Italy - ZnO based nanostructured	13.30–15.30	Sightseeing in Helsinki
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Parallel Sessions 1-2-3-4-5, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8   Session		
Venue: Club Mar, Deck 7  Nanogenerators & Piezotronics: Harvesting Multiscale Energies  Chair: Weiguo Hu, Beljing Institute of Nanoenergy and Nanosystems, China Co-Chair: Youfan Hu, Peking University, China  IAAM Scientists Medal Lecture: Chunwen Sun, Beljing Institute of Nanoenergy and Nanosystems, China - Efficient storing energy harvested by triboelec nanogenerators using a safe and durable all-solid-state sodium-ion battery  It and our believe the Common State of Nanoenergy and Nanosystems, China - Piezophototronics devices and applications  Oral: Jihye Kim, Sungkyunkwan University, South Korea - Enhanced output performance of P(VDF-TirFE) based energy harvesters using high dipole mome solvent  17,0017,00 Oral: Jihye Kim, Sungkyunkwan University, South Korea - Harvesting high-speed rotational energy through portable triboelectric nanogenerator  17,1017,01 Oral: Jihoen Chung, Chung-Ang University, South Korea - Roll-type sheet driven triboelectric nanogenerator  17,1017,02 Oral: Seong Min Kim, Sungkyunkwan University, South Korea - Analytical study on piezoelectric effects on exciton generation  18,0016,00  18,0016,00  18,0016,00  18,0016,00  18,0016,00  18,0016,00  18,0016,00  18,0016,00  18,0016,00  18,0016,0016,001  18,0016,0016,001  18,0016,0016,001  18,0016,0016,001  18,0016,0016,001  18,0016,0016,001  18,0016,0016,001  18,0016,0016,001  18,0016,0016,001  18,0016,0016,001  18,0016,0016,001  18,0016,0016,001  18,0016,0016,001  18,0016,0016,001  18,0016,0016,001  18,0016,0016,001  18,0016,0016,0016,0016,0016,0016,0016,00		
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16.40-16.50 IAAM Scientists Medal Lecture: Aristides Bakandritsos, Palacky University in Olomouc, Czech Republic - From fluorographene to cyanographene and graphene-acid	17.10-17.20 17.20-17.30 Chair: Nils A 16.00-16.20 16.20-16.40 16.40-17.00 17.00-17.20 17.20-17.30	Oral: Banseok Kim, Chung-Ang University, South Korea - Roll-type sheet driven triboelectric nanogenerator  Oral: Seong Min Kim, SungKyunKwan University, South Korea - Analytical study on piezoelectric effects on exciton generation  Session II  Venue: Auditorium A, Conference Center, Deck-8  Nanomaterials & Nanotechnology  Co-Chair: Min Wu, Chinese Academy of Sciences, China and Tseung-Yuen Tseng, National Chiao Tung University, Taiwan  IAAM Medal Lecture: Leon Chua, University of California, USA - Ten things you didn't know about memristors  IAAM Medal Lecture: Stoyko Fakirov, IAAM Medal Lecture, New Zealand - The "converting instead of adding concept" for preparation of polymer nanocomposites  IAAM Scientists Medal Lecture: Maria Elena Fragala, University of Catania, Italy - ZnO based nanostructured mats for application in AOP water treatments Invited Lecture: Kalawati Saini, University of Delhi, India - Green synthesis of ZnO nanoparticles by using azadirachta indica and their photocatalytic, anti-bacterial, anti-fungal and anti-diabetic activity  Oral: Martina Garni, University of Basel, Switzerland - Visualization of enzymatic reactions inside the cavities of synthetic giant unilamellar vesicles (GUVs)  Session III  Venue: Auditorium B, Conference Center, Deck-8  Growth of Carbon Nanomaterials
graphene-acid	17.10-17.20 17.20-17.30 Chair: Nils A 16.00-16.20 16.20-16.40 16.40-17.00 17.00-17.20 17.20-17.30	Oral: Banseok Kim, Chung-Ang University, South Korea - Roll-type sheet driven triboelectric nanogenerator  Oral: Seong Min Kim, SungKyunKwan University, South Korea - Analytical study on piezoelectric effects on exciton generation  Session II  Venue: Auditorium A, Conference Center, Deck-8  Nanomaterials & Nanotechnology  Co-Chair: Min Wu, Chinese Academy of Sciences, China and Tseung-Yuen Tseng, National Chiao Tung University, Taiwan  IAAM Medal Lecture: Leon Chua, University of California, USA - Ten things you didn't know about memristors  IAAM Medal Lecture: Stoyko Fakirov, IAAM Medal Lecture, New Zealand - The "converting instead of adding concept" for preparation of polymer nanocomposites  IAAM Scientists Medal Lecture: Maria Elena Fragala, University of Catania, Italy - ZnO based nanostructured mats for application in AOP water treatments Invited Lecture: Kalawati Saini, University of Delhi, India - Green synthesis of ZnO nanoparticles by using azadirachta indica and their photocatalytic, anti-bacterial, anti-fungal and anti-diabetic activity  Oral: Martina Garni, University of Basel, Switzerland - Visualization of enzymatic reactions inside the cavities of synthetic giant unilamellar vesicles (GUVs)  Session III  Venue: Auditorium B, Conference Center, Deck-8  Growth of Carbon Nanomaterials  dreas Larsson, Lulea University of Technology, Sweden  Co-Chair: Ana Proykova, Sofia University, Bulgaria  Invited Talk: Alister Page, The University of Newcastle, Australia - Catalysts, etchants and magnetic fields: How can carbon nanostructure growth be
16.50-17.00 Oral: Daniel Hedman, Lulea University of Technology, Sweden - Linking stability of single-walled carbon nanotubes with growth products	17.10-17.20 17.20-17.30 Chair: Nils A 16.00-16.20 16.20-16.40 16.40-17.00 17.00-17.20 17.20-17.30 Chair: J. An 16.00-16.20	Oral: Banseok Kim, Chung-Ang University, South Korea - Roll-type sheet driven triboelectric nanogenerator  Oral: Seong Min Kim, SungKyunKwan University, South Korea - Analytical study on piezoelectric effects on exciton generation  Session II  Venue: Auditorium A, Conference Center, Deck-8  Nanomaterials & Nanotechnology  Co-Chair: Min Wu, Chinese Academy of Sciences, China and Tseung-Yuen Tseng, National Chiao Tung University, Taiwan  IAAM Medal Lecture: Leon Chua, University of California, USA - Ten things you didn't know about memristors  IAAM Medal Lecture: Stoyko Fakirov, IAAM Medal Lecture, New Zealand - The "converting instead of adding concept" for preparation of polymer nanocomposites  IAAM Scientists Medal Lecture: Maria Elena Fragala, University of Catania, Italy - ZnO based nanostructured mats for application in AOP water treatments Invited Lecture: Kalawati Saini, University of Delhi, India - Green synthesis of ZnO nanoparticles by using azadirachta indica and their photocatalytic, anti-fungal and anti-diabetic activity  Oral: Martina Garni, University of Basel, Switzerland - Visualization of enzymatic reactions inside the cavities of synthetic giant unilamellar vesicles (GUVs)  Session III  Venue: Auditorium B, Conference Center, Deck-8  Growth of Carbon Nanomaterials  dreas Larsson, Lulea University of Technology, Sweden  Co-Chair: Ana Proykova, Sofia University, Bulgaria  Invited Talk: Alister Page, The University of Newcastle, Australia - Catalysts, etchants and magnetic fields: How can carbon nanostructure growth be controlled?
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1	10 Oral: Toma Susi, University of Vienna, Austria - Single-atom spectroscopy of phosphorus dopants implanted into graphene	
17.10-17.20	fluorographene  Oral: Christian Wanger IHP GmbH - Leibniz Institute for Innovative Microelectronics Germany - Towards graphene-based vertical transistor	
17.20-17.30	microelectronic applications	0.10.
	Session IV	
	Venue: B51-52, Conference Center, Deck-8	
Chair: Dong	Microfluidics & Nanofluidics ongmei Chen, The University of Texas at Austin, USA and Aman Russom, Co-Chair: Masashi Mizukami, Tohoku Univerisity, Japan and Vir	ainia
	titute of Technology, Sweden Pensabene, University of Leeds, UK	gilla
16.00-16.20	20 IAAM Medal Lecture: Andrea Barbetta, University of Rome "La Sapienza", Italy - Highly tailorable and monodispese porous beads via microflu	uidics
16.20-16.40	40 Invited Lecture: Oleksandr Denisov, Harbin Institute of Technology, China - Millimeter wave discriminator for the detection stealth objects	
16.40-16.50	50 IAAM Scientists Medal Lecture: Virginia Pensabene, Univeristy of Leeds, UK - Innovative microfluidic approaches in reproductive biology	
16.50-17.00	Oral: Masashi Mizukami, Tohoku Univerisity, Japan - Characterization of nano-confined liquids using resonance shear measurement	
17.00-17.10	Oral: Christina Danny, Indian Institute of Technology Madras, India - Design and fabrication of PMMA based microfluidic device for plasmonic optical fiber sensors	U-bent plastic
17.10-17.20	·	sessment
17.20-17.30	Oral: Majid Ndova Université du Québec à Trois-Rivières Canada - Substrate integrated cavity circular reconator filled with nano-fibrillated cea	
17.20-17.30	numiaty detection	
	Session V	
	Venue: B31-32, Conference Center, Deck-8	
Ob also Halada	Composite & Ceramic Materials	
	ining Tian, Uppsala University, Sweden and Rajiv Gupta, Birla Institute of gy and Science, India	
16.00-16.10	10 Oral: Sandra Gelbrich, TU Chemnitz, Germany - Function-integrative textile reinforced concrete shells	
16.10-16.20	Oral: Huazhang Zhai, Beijing Institute of Technology, China - High-temperature microwave dielectric properties of boron nitride ceramics without	ut additives
16.20-16.30	Oral: Guven Turgut, Erzurum Technical University, Turkey - The deposition of NiO thin films via sol-gel spin coating; molarity effect	
16.30-16.40	Oral: Rajiv Gupta, Birla Institute of Technology and Science, India - Evaluation of use of bottom ash in cement masonry and concrete regarding	g their
	machanical properties	
16.40-16.50	Oral- Pranta Shandilya MNNIT Allahahad India - Experimental study on performance characteristics of Ni-rich NiTi shape memory alloy in wire	electric
16.50-17.00	discharge machining	
17.00-17.10	Oral: Liangyu Chen, Jiangsu University of Science and Technology, China - Calculation of the planar disregistry between zirconium and its ox effect of stress by using modified Turnbull-Vonnegut equation	ide under the
17.10-17.20	Oral: Ze-Xin Wang, Jiangsu University of Science and Technology, China - Degradation behavior of micro-arc oxidized ZK60 magnesium alloy blood fluid	in simulated
17.20-17.30	Oral: Andris Berzins, Latvia University of Agriculture, Latvia - Softwood surface compatibility with inorganic geopolymer	
	Session IV	
	Venue: S22-23, Conference Center, Deck-8	
	World Technology Forum	
Chair: Faai Z	ai Zhang, Guilin University of Technology, China Co-Chair: Mahamadou Seydou, Paris Diderot University, France	1
16.00-16.20	20 Invited Lecture: Giuseppe Barbieri, ITM-CNR, Italy - CO <sub>2</sub> separation with thermally rearranged polymer membranes: Separation properties, agin	g and restorir
16.20-16.40	Invited Lecture: Raju Gupta, Indian Institute of Technology Kanpur, India - Enhanced photocatalytic activity of sensitized/doped electrospun ti nanofibers for degradation of organic compounds	tanium dioxid
16.40-16.50	IAAM Scientists Medal Lecture: Mobil Abdullah, Malaysia - Ric/nanotechnology and the integrated higrafinery based on microalizal cultivation a	and palm oil
16.50-17.00	Oral: Insang Yang, Ewha Womans University, South Korea - Selective probe of spin excitations in the Mn <sup>3+</sup> layers of hexagonal RMnO <sub>3</sub>	
17.00-17.10		
17.10-17.20	Oral: Kate Kotlhao, Vaal University of Technology, South Africa - Synthesis, characterization of Ag doped TiO <sub>2</sub> nanocomposites for photodegr chlorophenols	adation of
17.20-17.30	Oral: Yuan Li, Zhejiang University, China - Preparation and characterization of citrus essential oil loaded in chitosan microcapsules by using diff	erent emulsifi
	30 IAAM Awards and Farewell Drink at Club Mar, Deck 7	
17.30–18.30	Dinner at Viking Buffet, Deck 7	
17.30–18.30 20.00-21.30		
20.00-21.30	30 Entertainment at Club Mar, Deck 7	
20.00-21.30	30 Entertainment at Club Mar, Deck 7  Day - 3: Thursday, 24 August 2017, M/S Mariella, Viking Line, Sweden	
20.00-21.30 21.30-22.30		
20.00-21.30 21.30-22.30 07.30-08.45	Day - 3: Thursday, 24 August 2017, M/S Mariella, Viking Line, Sweden	
20.00-21.30 21.30-22.30 07.30-08.45 08.00-08.30	Day - 3: Thursday, 24 August 2017, M/S Mariella, Viking Line, Sweden  Breakfast at Viking Buffet, Deck 7	
20.00-21.30 21.30-22.30 07.30-08.45 08.00-08.30	Day - 3: Thursday, 24 August 2017, M/S Mariella, Viking Line, Sweden  Breakfast at Viking Buffet, Deck 7  Check Out from the Cabins and Store Luggage in the Music Meister, Deck 7  Parallel Sessions 1-2-3-4-5, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8  Session I	
20.00-21.30 21.30-22.30 07.30-08.45 08.00-08.30	Day - 3: Thursday, 24 August 2017, M/S Mariella, Viking Line, Sweden  Breakfast at Viking Buffet, Deck 7  Check Out from the Cabins and Store Luggage in the Music Meister, Deck 7  Parallel Sessions 1-2-3-4-5, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8	

	09.30-09.50	Invited Lecture: Chenguo Hu, Chongqing University, China - Self-powered triboelectric micro liquid/gas flow sensor for microfluidics
Σ¥	09.50-10.10	Invited Lecture: Kaushik Parida, Nanyang Technological University, Singapore - Self-polarized PVDF-TrFE films for ultra large range self-powered pressure sensor
JGR	10.10-10.20	Oral: Giuseppe Melilli, CEA, France - Promoting the piezoelectric response in poly(vinylidene fluoride) by radiation sources
PRO	10.20-10.30	Oral: Hyungseok Yong, Chung-Ang University, South Korea - Omnidirectional wind-rolling triboelectric nanogenerator
FIC		Session II
SCIENTIFIC PROGRAM		Venue: Auditorium A, Conference Center, Deck-8
SCI		Environmental & Green Materials
	Chair: Feder	ico Cesano, University of Turin, Italy  Co-Chair: Omar Chaalal, Abu Dhabi University, UAE
2017	09.00-09.20	IAAM Medal Lecture: Bin Fei, Hong Kong Polytechnic University, Hong Kong - Enhanced photocatalytic efficiency of hybrid perovskite in organic solvents
24 August 2017	09.20-09.40	IAAM Medal Lecture: Urszula Narkiewicz, West Pomeranian University of Technology, Poland - Adsorption of carbon dioxide on solid sorbents
Auç		IAAM Scientists Medal Lecture: Chad Ulven, North Dakota State University, USA - Photodegradable and recyclable bio-based composites
3: 24		Oral: Kao-Shuo Chang, National Cheng Kung University, Taiwan - Photocatalytic and photoelectrochemical performance of Ta <sub>3</sub> N <sub>5</sub> microcolumn films fabricated
Day - 3:	10.00-10.10	using facile reactive sputtering
ă	10.10-10.20	Oral: Alejandro Zuleta Gil, Universidad Pontificia Bolivariana, Colombia - Mechanical, microstructural characterization and redesign of a BMX bicycle frame
	10.20-10.30	Oral: Djoko Gabriel, Universitas Indonesia, Indonesia - Design for material value conservation of plastic packaging with integrated stakeholders role support using interpretive structural modelling
		Session III
		Venue: Auditorium B, Conference Center, Deck-8
		Graphene Interfacing Biological Systems Symposium
	Chair: Camil	la Coletti, Istituto Italiano di Tecnologia, Italy  Co-Chair: Valentina Cantatore, Chalmers University of Technology, Sweden
	09.00-09.20	IAAM Medal Lecture: Silvia Dante, Istituto Italiano di Tecnologia, Italy - Cell properties on patterned SLG
	09.20-09.40	Invited Lecture: David Estrada, Boise State University, USA - Applications of atomically thin materials from biomolecules to engineered tissue
	09.40-10.00	Invited Lecture: Ilia Solov'yov, University of Southern Denmark, Denmark - Computational microscopy of biological systems through VIKING
	10.00-10.10	Oral: Valerio Voliani, Istituto Italiano di Tecnologia, Italy - Early detection of neoplasms by graphene-based sensors
		Oral: Domenica Convertino, Istituto Italiano di Tecnologia, Italy - Peripheral neuron survival and outgrowth on graphene
	10.20-10.30	Oral: Xinjian Chen, University of Utah, USA - Association of antitumor antibodies with graphene oxide substantially enhances the antibodies' antitumor activities
		Consists IV
2017		Session IV Vanue: P51-52 Conference Center, Deck 9
ust 2017		Venue: B51-52, Conference Center, Deck-8
August 2017	Chair: Jining	Venue: B51-52, Conference Center, Deck-8  Science & Technology of Polymers  Co-Chair: Bianca Pistillo, Luxembourg Institute of Science and Technology,
. 24		Venue: B51-52, Conference Center, Deck-8 Science & Technology of Polymers  Co-Chair: Bianca Pistillo, Luxembourg Institute of Science and Technology, Luxembourg
- 3: 24	09.00-09.20	Venue: B51-52, Conference Center, Deck-8 Science & Technology of Polymers  Wang, Zhejiang Sci-Tech University, China Co-Chair: Bianca Pistillo, Luxembourg Institute of Science and Technology, Luxembourg  IAAM Medal Lecture: Jiping Wang, Zhejiang Sci-Tech University, China - Smart textiles with soft thermal responsive polymers
ıy - 3: 24		Venue: B51-52, Conference Center, Deck-8 Science & Technology of Polymers  Co-Chair: Bianca Pistillo, Luxembourg Institute of Science and Technology, Luxembourg
- 3: 24	09.00-09.20	Venue: B51-52, Conference Center, Deck-8  Science & Technology of Polymers  Wang, Zhejiang Sci-Tech University, China  Co-Chair: Bianca Pistillo, Luxembourg Institute of Science and Technology, Luxembourg  IAAM Medal Lecture: Jiping Wang, Zhejiang Sci-Tech University, China - Smart textiles with soft thermal responsive polymers  IAAM Scientists Medal Lecture: Bianca Pistillo, Luxembourg Institute of Science and Technology, Luxembourg - Prap-CVD: UP-Scalable process for the deposition of pedot thin films  Invited Lecture: Chenxu Wu, Xiamen University, China - Static and dynamic properties of polymer brush with topological structures
- 3: 24	09.00-09.20 09.20-09.40	Venue: B51-52, Conference Center, Deck-8  Science & Technology of Polymers  Wang, Zhejiang Sci-Tech University, China  Co-Chair: Bianca Pistillo, Luxembourg Institute of Science and Technology, Luxembourg  IAAM Medal Lecture: Jiping Wang, Zhejiang Sci-Tech University, China - Smart textiles with soft thermal responsive polymers  IAAM Scientists Medal Lecture: Bianca Pistillo, Luxembourg Institute of Science and Technology, Luxembourg - Prap-CVD: UP-Scalable process for the deposition of pedot thin films
Day - 3: 24	09.00-09.20 09.20-09.40 09.40-10.00 10.00-10.10 10.10-10.20	Venue: B51-52, Conference Center, Deck-8  Science & Technology of Polymers  Wang, Zhejiang Sci-Tech University, China  Co-Chair: Bianca Pistillo, Luxembourg Institute of Science and Technology, Luxembourg  IAAM Medal Lecture: Jiping Wang, Zhejiang Sci-Tech University, China - Smart textiles with soft thermal responsive polymers  IAAM Scientists Medal Lecture: Bianca Pistillo, Luxembourg Institute of Science and Technology, Luxembourg - Prap-CVD: UP-Scalable process for the deposition of pedot thin films  Invited Lecture: Chenxu Wu, Xiamen University, China - Static and dynamic properties of polymer brush with topological structures  Oral: Tatsuya Koumoto, Saga, Japan - Production method of high compressive strength geopolymers by taking into account the chemical components of fly ash or ground slag  Oral: Kunli Xiong, Chalmers University of Technology, Sweden - Plasmonic metasurfaces with conjugated polymers for electronic paper in color
Day - 3: 24	09.00-09.20 09.20-09.40 09.40-10.00 10.00-10.10	Venue: B51-52, Conference Center, Deck-8  Science & Technology of Polymers  Wang, Zhejiang Sci-Tech University, China  Co-Chair: Bianca Pistillo, Luxembourg Institute of Science and Technology, Luxembourg  IAAM Medal Lecture: Jiping Wang, Zhejiang Sci-Tech University, China - Smart textiles with soft thermal responsive polymers  IAAM Scientists Medal Lecture: Bianca Pistillo, Luxembourg Institute of Science and Technology, Luxembourg - Prap-CVD: UP-Scalable process for the deposition of pedot thin films  Invited Lecture: Chenxu Wu, Xiamen University, China - Static and dynamic properties of polymer brush with topological structures  Oral: Tatsuya Koumoto, Saga, Japan - Production method of high compressive strength geopolymers by taking into account the chemical components of fly ash or ground slag  Oral: Kunli Xiong, Chalmers University of Technology, Sweden - Plasmonic metasurfaces with conjugated polymers for electronic paper in color  Oral: Giuseppe Montella, Naval Research Laboratry, USA - Exfoliation of clay particles in polymer nanocomposites through melt extrusion
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24 August 2017 Day - 3: 24	09.00-09.20 09.20-09.40 09.40-10.00 10.00-10.10 10.10-10.20 10.20-10.30	Venue: B51-52, Conference Center, Deck-8  Science & Technology of Polymers  Co-Chair: Bianca Pistillo, Luxembourg Institute of Science and Technology, Luxembourg  IAAM Medal Lecture: Jiping Wang, Zhejiang Sci-Tech University, China - Smart textiles with soft thermal responsive polymers  IAAM Scientists Medal Lecture: Bianca Pistillo, Luxembourg Institute of Science and Technology, Luxembourg - Prap-CVD: UP-Scalable process for the deposition of pedot thin films  Invited Lecture: Chenxu Wu, Xiamen University, China - Static and dynamic properties of polymer brush with topological structures  Oral: Tatsuya Koumoto, Saga, Japan - Production method of high compressive strength geopolymers by taking into account the chemical components of fly ash or ground slag  Oral: Kunli Xiong, Chalmers University of Technology, Sweden - Plasmonic metasurfaces with conjugated polymers for electronic paper in color  Oral: Giuseppe Montella, Naval Research Laboratry, USA - Exfoliation of clay particles in polymer nanocomposites through melt extrusion  Session V  Venue: B31-32, Conference Center, Deck-8  Constructional, Structural & Engineering Materials  Co-Chair: Shubhajit Roy Chowdhury, Indian Institute of Technology Mandi, India  IAAM Scientists Medal Lecture: Elena Brandaleze, National Technological University, Argentina - Correlation between structural aspects and mechanical
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	Chair: Wei L	i, The University of Texas at Austin, USA Co-Chair: Mohd Abdullah, Universiti Malaysia Terengganu, Malaysia	
5		Oral: Josef Habdank, Graphenalloy, Denmark - Graphene quantum tunnelling composites (GQTC) produced by new electro- and mechanochemical method	
ENTIFIC PROGRAM	09.10-09.20	Oral: Chuantong Cheng, Chinese Academy of Science, China - A multi-mode frequency multiplier based on dual-gated GFETs	
	09.20-09.30	Oral: Henrik Funke, TU Chemnitz, Germany - Carbon-reinforced concrete for high performance lightweight noise barriers	
ic P	09.30-09.40	Oral: Jian Wang, Chinese Academy of Science, China - Support effect of ruthenium catalysts for the catalytic oxidation of VOCs	
ENT	09.40-09.50	Oral: Evgeniy Zaitcev, Almaty University of Power Engineering & Telecommunications, Kazakhstan - The research of openflow protocol for reliable management of integrated networks of complex of earth-moving and construction machines	
SCI	09.50-10.00	0-10.00 Oral: Mohammadreza Kolahdouz, University of Tehran, Iran - A multi-switch fabrication based on dielectrophoresis using Ni nanoparticles	
August 2017	10.00-10.10	Oral: Yuefei Zhang, Beijing University of Technology, China - The elecrochemo-mechanical coupling behavior of typical metal oxide anodes studied by in situ transmission electron microscopy	
gust	10.10-10.20	Oral: Muhammad Asif, COMSATS Institute of Information Technology, Pakistan - ZnO nanostructure based electrochemical intracellular glucose biosensors	
	10.20-10.30	0.20-10.30 Oral: Guven Turgut, Erzurum Technical University, Turkey - Ta-contribution influence on properties of tin oxide	
-3: 24	10.30-10.45	Coffee Break at Conference Center, Deck-8	
Day	10.45-12.30	Plenary Session, Venue: Club Mar, Deck 7	
Chair(s): Nils Mårtensson, Uppsala University, Sweden and Zhong Lin Wang, Georgia Institute of Technology, USA		Chair(s): Nils Mårtensson, Uppsala University, Sweden and Zhong Lin Wang, Georgia Institute of Technology, USA	
	10.45-11.30	Plenary Lecture: Zhong Lin Wang, Georgia Institute of Technology, USA - From Maxwell's displacement current to nanogenerator driven self-powered systems and blue energy	
	11.30-11.45	Keynote Lecture: Ashutosh Tiwari, Institute of Advanced Materials, Sweden - Dynamic 2D bioelectronic systems and devices	
	11.45-12.30	Plenary Lecture: Nils Martensson, Uppsala University, Sweden - The Nobel Prize	
	12.00-13.30	Lunch at Viking Buffet, Deck 7	
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	13.30-15.00	Parallel Sessions 1-2-3-4-5, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8	
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st 2017	13.30-15.00	Parallel Sessions 1-2-3-4-5, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8	
August 2017	13.30-15.00	Parallel Sessions 1-2-3-4-5, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8  Session I	
24 August 2017		Parallel Sessions 1-2-3-4-5, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8  Session I  Venue: Club Mar, Deck 7	
بې	Chair: Chun	Parallel Sessions 1-2-3-4-5, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8  Session I  Venue: Club Mar, Deck 7  Nanogenerators & Piezotronics: Advanced Biosystems	
	Chair: Chun 13.30-14.00	Parallel Sessions 1-2-3-4-5, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8  Session I  Venue: Club Mar, Deck 7  Nanogenerators & Piezotronics: Advanced Biosystems  wen Sun, Beijing Institute of Nanoenergy and Nanosystems, China  Co-Chair: Christian Falconi, University of Rome Tor Vergata, Italy	
بې	Chair: Chun 13.30-14.00	Parallel Sessions 1-2-3-4-5, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8  Session I  Venue: Club Mar, Deck 7  Nanogenerators & Piezotronics: Advanced Biosystems  wen Sun, Beijing Institute of Nanoenergy and Nanosystems, China Co-Chair: Christian Falconi, University of Rome Tor Vergata, Italy  IAAM Scientists Medal Lecture: Youfan Hu, Peking University, China - Machine-washable textile triboelectric nanogenerator for human respiratory monitoring	
بې	Chair: Chunv 13.30-14.00 14.00-14.20	Parallel Sessions 1-2-3-4-5, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8  Session I  Venue: Club Mar, Deck 7  Nanogenerators & Piezotronics: Advanced Biosystems  wen Sun, Beijing Institute of Nanoenergy and Nanosystems, China Co-Chair: Christian Falconi, University of Rome Tor Vergata, Italy  IAAM Scientists Medal Lecture: Youfan Hu, Peking University, China - Machine-washable textile triboelectric nanogenerator for human respiratory monitoring  Invited Lecture: Xudong Wang, University of Wisconsin-Madison, USA - Materials engineering for the development of flexible implantable nanogenerators	
بې	Chair: Chund 13.30-14.00 14.00-14.20 14.20-14.40 14.40-14.50	Parallel Sessions 1-2-3-4-5, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8  Session I  Venue: Club Mar, Deck 7  Nanogenerators & Piezotronics: Advanced Biosystems  wen Sun, Beijing Institute of Nanoenergy and Nanosystems, China Co-Chair: Christian Falconi, University of Rome Tor Vergata, Italy  IAAM Scientists Medal Lecture: Youfan Hu, Peking University, China - Machine-washable textile triboelectric nanogenerator for human respiratory monitoring  Invited Lecture: Xudong Wang, University of Wisconsin-Madison, USA - Materials engineering for the development of flexible implantable nanogenerators  Invited Lecture: Zhou Li, Beijing Institute of Nanoenergy and Nanosystem, China - Towards the self-powered medical devices	
Day - 3:	Chair: Chund 13.30-14.00 14.00-14.20 14.20-14.40 14.40-14.50	Parallel Sessions 1-2-3-4-5, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8  Session I  Venue: Club Mar, Deck 7  Nanogenerators & Piezotronics: Advanced Biosystems  wen Sun, Beijing Institute of Nanoenergy and Nanosystems, China Co-Chair: Christian Falconi, University of Rome Tor Vergata, Italy  IAAM Scientists Medal Lecture: Youfan Hu, Peking University, China - Machine-washable textile triboelectric nanogenerator for human respiratory monitoring Invited Lecture: Xudong Wang, University of Wisconsin-Madison, USA - Materials engineering for the development of flexible implantable nanogenerators Invited Lecture: Zhou Li, Beijing Institute of Nanoenergy and Nanosystem, China - Towards the self-powered medical devices  Oral: Hongjoon Yoon, SungKyunKwan University, South Korea - Triboelectric nanogenerators for powering implanted devices	
Day - 3:	Chair: Chund 13.30-14.00 14.00-14.20 14.20-14.40 14.40-14.50	Parallel Sessions 1-2-3-4-5, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8  Session I  Venue: Club Mar, Deck 7  Nanogenerators & Piezotronics: Advanced Biosystems  wen Sun, Beijing Institute of Nanoenergy and Nanosystems, China Co-Chair: Christian Falconi, University of Rome Tor Vergata, Italy  IAAM Scientists Medal Lecture: Youfan Hu, Peking University, China - Machine-washable textile triboelectric nanogenerator for human respiratory monitoring Invited Lecture: Xudong Wang, University of Wisconsin-Madison, USA - Materials engineering for the development of flexible implantable nanogenerators Invited Lecture: Zhou Li, Beijing Institute of Nanoenergy and Nanosystem, China - Towards the self-powered medical devices  Oral: Hongjoon Yoon, SungKyunKwan University, South Korea - Triboelectric nanogenerators for powering implanted devices  Oral: Qijun Sun, Beijing Institute of Nanoenergy and Nanosystem, China - Multifunctional microsensational system based on graphene electronics	
Day - 3:	Chair: Chund 13.30-14.00 14.00-14.20 14.20-14.40 14.40-14.50	Parallel Sessions 1-2-3-4-5, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8  Session I  Venue: Club Mar, Deck 7  Nanogenerators & Piezotronics: Advanced Biosystems  Wen Sun, Beijing Institute of Nanoenergy and Nanosystems, China Co-Chair: Christian Falconi, University of Rome Tor Vergata, Italy  IAAM Scientists Medal Lecture: Youfan Hu, Peking University, China - Machine-washable textile triboelectric nanogenerator for human respiratory monitoring  Invited Lecture: Xudong Wang, University of Wisconsin-Madison, USA - Materials engineering for the development of flexible implantable nanogenerators  Invited Lecture: Zhou Li, Beijing Institute of Nanoenergy and Nanosystem, China - Towards the self-powered medical devices  Oral: Hongjoon Yoon, SungKyunKwan University, South Korea - Triboelectric nanogenerators for powering implanted devices  Oral: Qijun Sun, Beijing Institute of Nanoenergy and Nanosystem, China - Multifunctional microsensational system based on graphene electronics  Session II	
بې	Chair: Chunv 13.30-14.00 14.00-14.20 14.20-14.40 14.40-14.50 14.50-15.00	Parallel Sessions 1-2-3-4-5, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8  Session I  Venue: Club Mar, Deck 7  Nanogenerators & Piezotronics: Advanced Biosystems  wen Sun, Beijing Institute of Nanoenergy and Nanosystems, China Co-Chair: Christian Falconi, University of Rome Tor Vergata, Italy  IAAM Scientists Medal Lecture: Youfan Hu, Peking University, China - Machine-washable textile triboelectric nanogenerator for human respiratory monitoring Invited Lecture: Xudong Wang, University of Wisconsin-Madison, USA - Materials engineering for the development of flexible implantable nanogenerators Invited Lecture: Zhou Li, Beijing Institute of Nanoenergy and Nanosystem, China - Towards the self-powered medical devices  Oral: Hongjoon Yoon, SungKyunKwan University, South Korea - Triboelectric nanogenerators for powering implanted devices  Oral: Qijun Sun, Beijing Institute of Nanoenergy and Nanosystem, China - Multifunctional microsensational system based on graphene electronics  Session II  Venue: Auditorium A, Conference Center, Deck-8  Environmental & Green Materials  Ulven, North Dakota State University, USA  Co-Chair: Bin Fei, Hong Kong Polytechnic University, Hong Kong	
- 3: 24 August 2017 Day - 3:	Chair: Chunv 13.30-14.00 14.00-14.20 14.20-14.40 14.40-14.50 14.50-15.00	Parallel Sessions 1-2-3-4-5, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8  Session I  Venue: Club Mar, Deck 7  Nanogenerators & Piezotronics: Advanced Biosystems  Wen Sun, Beijing Institute of Nanoenergy and Nanosystems, China Co-Chair: Christian Falconi, University of Rome Tor Vergata, Italy  IAAM Scientists Medal Lecture: Youfan Hu, Peking University, China - Machine-washable textile triboelectric nanogenerator for human respiratory monitoring Invited Lecture: Xudong Wang, University of Wisconsin-Madison, USA - Materials engineering for the development of flexible implantable nanogenerators Invited Lecture: Zhou Li, Beijing Institute of Nanoenergy and Nanosystem, China - Towards the self-powered medical devices  Oral: Hongjoon Yoon, SungKyunKwan University, South Korea - Triboelectric nanogenerators for powering implanted devices  Oral: Qijun Sun, Beijing Institute of Nanoenergy and Nanosystem, China - Multifunctional microsensational system based on graphene electronics  Session II  Venue: Auditorium A, Conference Center, Deck-8  Environmental & Green Materials	
24 August 2017 Day - 3:	Chair: Chunv 13.30-14.00 14.00-14.20 14.20-14.40 14.40-14.50 14.50-15.00	Parallel Sessions 1-2-3-4-5, Venue: Club Mar, Deck 7 and Conference Centre, Deck 8  Session I  Venue: Club Mar, Deck 7  Nanogenerators & Piezotronics: Advanced Biosystems  wen Sun, Beijing Institute of Nanoenergy and Nanosystems, China Co-Chair: Christian Falconi, University of Rome Tor Vergata, Italy  IAAM Scientists Medal Lecture: Youfan Hu, Peking University, China - Machine-washable textile triboelectric nanogenerator for human respiratory monitoring Invited Lecture: Xudong Wang, University of Wisconsin-Madison, USA - Materials engineering for the development of flexible implantable nanogenerators Invited Lecture: Zhou Li, Beijing Institute of Nanoenergy and Nanosystem, China - Towards the self-powered medical devices  Oral: Hongjoon Yoon, SungKyunKwan University, South Korea - Triboelectric nanogenerators for powering implanted devices  Oral: Qijun Sun, Beijing Institute of Nanoenergy and Nanosystem, China - Multifunctional microsensational system based on graphene electronics  Session II  Venue: Auditorium A, Conference Center, Deck-8  Environmental & Green Materials  Ulven, North Dakota State University, USA  Co-Chair: Bin Fei, Hong Kong Polytechnic University, Hong Kong IAAM Scientists Medal Lecture: Jasim Salman, Al-Nisour University College, Iraq - Fixed-bed columns for removal of pollutants and excess of free chlorine	

		Venue: Auditorium A, Conference Center, Deck-8		
,		Environmental & Green Materials		
i i	Chair: Chad	ven, North Dakota State University, USA  Co-Chair: Bin Fei, Hong Kong Polytechnic University, Hong Kong		
	13.30-13.40	1AAM Scientists Medal Lecture: Jasim Salman, Al-Nisour University College, Iraq - Fixed-bed columns for removal of pollutants and excess of free chlorine from drinking water		
3	13.40-13.50	IAAM Scientists Medal Lecture: Omar Chaalal, Abu Dhabi University, UAE - Green water flooding of fractured and heterogeneous oil reservoirs at high salinity and high temperature		
	13.50-14.00 Oral: Valentin Thoury, University of Montpellier, France - Estimation of water vapour diffusivity in micro-size cellulose particles			
	14.00-14.10	14.00-14.10 Oral: Xuezhong He, Norwegian University of Science and Technology, Norway - Molecule-tailored carbon membranes for CO <sub>2</sub> /CH <sub>4</sub> separation		
	14.10-14.20 Oral: Alejandro Zuleta Gil, Universidad Pontificia Bolivariana, Colombia - Coating development during electroless plating and formation of Ni-P-nanocera coatings on magnesium			
14.20-14.30 Oral: Natalia Lopez-Barbosa, Universidad de los Andes, Colombia - Polymeric number average molecular weight in submicron films as a too manipulation of water phenomena in translucent coatings		Oral: Natalia Lopez-Barbosa, Universidad de los Andes, Colombia - Polymeric number average molecular weight in submicron films as a tool for the nanipulation of water phenomena in translucent coatings		
	14.30-14.40 Oral: Elhadj Benachour, University of Bechar, Algeria - New optimization method for advanced materials design of walls in buildings			
14.40-15.00 <b>I</b>		nvited Lecture: Lianjun Wang, Donghua University, China - Fabrication of silica glass from mesoporous powder by SPS		

7		Session III
201		Venue: Auditorium B, Conference Center, Deck-8
ust		Global Graphene Forum: Graphene Applications
August	Chair: Lilia V	Voods, University of South Florida, USA and Yaping Zhao, Jiao Tong University, China
3: 24	13.30-13.50	IAAM Medal Lecture: Yaping Zhao, Jiao Tong University , China - Graphene/silver nanowire/graphene sandwich-structured film with flexible and conductive
	13.50-14.10	IAAM Medal Lecture: Kyung-Suk Kim, Brown University, USA - Flexo-electric crinkles of multilayer graphene
Day	14.10-14.20	IAAM Scientists Medal Lecture: Agnieszka Iwan, Military Institute of Engineer Technology, Poland - Graphene oxide as an effective additive material for organic solar cells
	14.20-14.30	IAAM Scientists Medal Lecture: Adam Januszko, Military Institute of Engineer Technology, Poland - A graphene based flexible, thermo-electrochromic sensitive sensor for military and civil monitoring
Σ	14.30-14.40	Oral: Xianhui Wang, Xi'an University of Technology, China - Microstructure and properties of silver matrix composites reinforced with few-layer graphene

OGR	14.40-14.50	Oral: Xurui Mao, Chinese Academy of Sciences, China - Concept of graphene FET monolithic integrated with silicon-based photoelectronics			
PRO	14.50-15.00	Oral: Toma Susi, University of Vienna, Austria - Isotope analysis in the transmission electron microscope			
SCIENTIFIC PR		Session IV			
Ē		Venue: B51-52, Conference Center, Deck-8			
SCII	Optical, Electronic & Magnetic Materials				
4 August 2017	Chair: Masav	ruki Nogami, Toyota Physical and Chemical Research Institute, Japan Co-Chair: Karen Gambaryan, Yerevan State University, Armenia			
		IAAM Medal Lecture: Eduardo Pena Cabrera, University of Guanajuato, Mexico - Applications of the orthogonal reactivity and multicoponent reactions in the			
	13.30-13.50	synthesis of complex BODIPY derivatives			
	13.50-14.10	Invited Lecture: Jwo Jou, National Tsing Hua University, Taiwan - Blue hazard free, candlelight organic light-emitting diode			
3: 24	14.10-14.20	Oral: Dong Shen, East China University of Science nad Technology, China - Wide Temperature Range Blue Phase Induced by Bent-core Molecules			
ay - 3:	14.20-14.30	Oral: Masayuki Nogami, Toyota Physical and Chemical Research Institute, Japan - Glasses for reducing Eu3+ ions by reaction with H2 gas and their fluorescence properties			
۵	14.30-14.40				
	14.40-14.50	14.50 Oral: Budhy Kurniawan, University of Indonesia, Indonesia - The Structural, morphological and Magnetic Properties of La0.8Ca0.1Ag0.1MnO3 Synthesized by Sol-Gel Method			
	14.50-15.00	Oral: Andras Saftics, MTA Research Centre for Energy, Hungary - Development of dextran interface layer for label-free biosensing			
17		Session V			
August 2017		Venue: B31-32, Conference Center, Deck-8			
snb		Advanced Materials Innovations			
	Chair: Mikae	I Syväjärvi, Linkoping University, Sweden Co-Chair: Jianxin Geng, Chinese Academy of Science, China			
- 3: 24	13.15-13.30	Mikael Syväjärvi, Linkoping University, Sweden - Introduction of Advanced Materials Innovations in the Baltic Sea Region			
Day -	13.30-13.50	IAAM Medal Lecture: Paddy French, TU Delft, Netherlands - Coatings for sensing and protection in silicon sensors			
ă	13.50-14.10	14.10 Invited Lecture: Federico Cesano, University of Turin, Italy - Advanced materials for innovative wastewater remediation and sustainable printed electronics: A few case studies			
	14.10-14.30	Invited Lecture: Shinji Takeoka, Waseda University, Japan - Luminescent nanosheets for ratiometric temperature mapping			
14.30-14.50 Invited Lecture: Vladimir Levchenko, Lomonosov Moscow State University, Russia - New generation of nanostructured carb applications					
	14.50-15.00 Oral: Boris Minaev, B. Khmelnitsky National University in Cherkasy, Ukraine - Tetraoxa[8]circulenes and hetero[8]circulenes expedient synthesis for OLED: Excited state engineering of these conjugated organic materials by the oxygen and chain-group substitution				
2017		Session VI			
st 2	Venue: S22-23, Conference Center, Deck-8				
August		World Technology Forum			
24 4	Chair: Urszu	la Narkiewicz, West Pomeranian University of Technology, Poland  Co-Chair: Raju Gupta, Indian Institute of Technology Kanpur, India			
	13.30-13.40	Oral: Sheng Lu, Jiangsu University of Science and Technology, China - Microstructural evolution and mechanical properties of friction stir welded magnesium alloy aided with nanofluid heat pipe			
Day	13.40-13.50	Oral: Vivek Pachauri, University of Applied Sciences Kaiserslautern, Germany - System integration of graphene based materials for real biosensor applications			
	13.50-14.00	Oral: Jiyong Hu, Donghua University, China - Effect of electrode material on piezoelectric output of PVDF sensor with electrospinning			
	14.00-14.10	Oral: Mohammadreza Kolahdouz, University of Tehran, Iran - Simple and cost-effective lab on a phone device for measuring the mercury concentration in water			
	14.10-14.30	Oral: Guven Turgut, Erzurum Technical University, Turkey - The effect of Y-contribution on properties of ZnO; a heterodiode application & The first synthesis of Sc-loaded CdO with sol-gel spin coating			
	14.30-14.40	4.40 Oral: Abdulmalik Aljinaidi, King Abdulaziz University, Saudi Arabia - Spider web shape energy absorber			
	14.40-14.50	4.50 Oral: Fariba Tadayon, Islamic Azad University, Iran - Synthesis and optimization of magnetic nanoparticles drug delivery by response surface			
14.50-15.00 Oral: Nasrullah Shah, Abdul Wali Khan University M poly(acrylonitrile-co-acrylic acid)		Oral: Nasrullah Shah, Abdul Wali Khan University Mardan, Pakistan - Fabrication of biocompatible nanocomposite consisted of zinc oxide nanoparticles based poly(acrylonitrile-co-acrylic acid)			
	15.15-15.30	Closing Ceremony at Club Mar, Deck-7			
	16.00-18.00	Sightseeing in Stockholm			
islands and waters, Fjällgatan		Stockholm City Hall, The Royal Palace (Östermalm), Gamla Stan (Old Town), Långholmen and The Royal Djurgården, Stockholm's islands and waters, Fjällgatan			
		Stockholm is world famous for being stunningly picturesque and sits on 14 islands. It is surrounded by water and presents parkland, forest and beautiful views. During this tour you will get to know Stockholm and history of the city.			
	17.30	Commencement of tour at central train station, Stockholm			

#### **Poster Session**

#### Day - 1: Tuesday, 22 August 2017, M/S Mariella, Viking Line, Sweden

Poster Evaluation Jury: I.N.G. Wardana (Brawijaya University, Indonesia), Karen Gambaryan (Yerevan State University, Armenia), Aristides Bakandritsos (Palacky University in Olomouc, Czech Republic), Tapas Maiti (Hiroshima University, Japan) and Elena Brandaleze (National Technological University, Argentina)

12.00-13.30 All Posters Setup at Conference Center, Deck-8

Poster Session - Advanced Materials Innovations, Biomaterials & Biodevices, Nanogenerators & Piezotronics, Global Graphene Forum, Computational Materials, Technology Forum, Thin Film & Coating Materials Technology, Optical, Electronic & Magnetic Materials, Biosensor & Bioelectronics, Energy & Harvesting Materials, Sensors & Actuators, Nanomaterials & Nanotechnology, Science & Technology of Polymers, Composite & Ceramic Materials, Medical Materials & Clinal Technology, Microfluidics & Nanofluidics, Environmental & Green Materials and Constructional, Structural & Engineering Materials

P-01 Babak Hassanzadeh Rad, Karaj Islamic Azad University, Iran - Orbital metastasis from breast cancer without significant changes in CT scan and MRI

P-02	Elena Brandaleze, National Technological University, Argentina - High deformation effects on the plasticity of ultra high carbon steel wires
P-03	Gabriela Hernandez, Universidad Autonoma Metropolitana, Mexico - Synthesis, characterization and evaluation of Cu/SSZ-13 catalyst for ammonia selective catalytic reduction (NH3-SCR)
P-04	Javaneh Atighi, Karaj Islamic Azad University, Iran - Analysis of dentists attitudes toward carotid artery calcification diagnosis in panoramic radiograph in 2016
P-05	Jose Miguel Hernandez, BUAP, Mexico - Nanoporosity of hierarchical materials: MOR, HEU and ERI zeolites
P-06	Kairat Kuterbekov, L.N.Gumilyov Eurasian National University, Kazakhstan - Investigations of the influence of the change in the mass fractions of fuel and oxidizer on the efficiency of the hard polymer Fuel cell
P-07	Mariano Aceves-Mijares, INAOE, Mexico - Waveguide-detector system on silicon for sensor application
P-08	Maxym Vorobyov, Riga Technical University, Latvia - Actuator device based on neodymium permanent magnets printed with 3d printer
P-09	Montserrat Silva Ichante, CIDETEQ, Mexico - Electrodeposition, characterization, and antibacterial activity of Zn-Cu / Ag nPs composite coatings
P-10	Nazik Elgindy, Alexandria University, Egypt - Spray dried rifampicin nanocomposites as a promising technology for TB therapy
P-11	Sergio Islas-Andrade, General Hospital of Mexico, Mexico - Prevalence of prediabetes in Mexico
P-12	Jeong-Ho Cho, Korea Institute of Ceramic Engineering & Technology, South Korea - Low-temperature annealing of copper-nickel manganite thermistor films for microbolometer applications
P-13	Vladimir Parfenyuk, Russian Academy of Sciences, Russia - Poly-porphyrin electrocatalytic films obtained via superoxide-assisted electrochemical deposition
P-14	Vladimir Parfenyuk, Russian Academy of Sciences, Russia - Surface properties of titanium alloy VT 6 after plasma electrolytic treatment
P-15	Vladislavs Jasinskis, Riga Stradins University, Latvia - A systematic review on the use of immune system involvement in bone reconstitution using hydroxyapatite (HAp)
P-16	Adnan Zaid, University of Applied Sciences , Algeria - Superplastic blow forming of MgAZ <sub>3</sub>
P-17	Alejandro Zuleta Gil, Universidad Pontificia Bolivariana, Colombia - A material selection software for thermoplastic materials with sustainable criteria
P-18	Alfredo Ongaro, Heriot Watt University, UK - Experimental investigations of CO <sub>2</sub> laser cut quality in poly(lactic acid) for microfluidic rapid-prototyping of sustainable devices
P-19	Baozhong Sun, Donghua University, China - Thermal expansion behaviors of carbon fiber/epoxy plain woven composites
P-20	Berenika Hausnerova, Tomas Bata University in Zlin, Czech Republic - Performance of gas and water atomized powders in powder injection moulding
P-21	Caili Yu, Guilin University of Technology, China - Preparation of the monodispersed carboxylated polymer microspheres with disproportionated rosin moiety and adsorption of methylene blue
P-22	Chang Kim, Kyung Hee University, South Korea - Numerical analysis of the TEG (thermo-electric generator) performance with contact resistances
P-23	Charles Mangeot, Noliac A/S, Denmark - Performance envelope of piezoelectric actuators at high temperature
P-24	Chun Wei, Guilin University of Technology, China - Preparation and electrochemical performances of cellulose nanofiber/graphene nanosheet/polyaniline composite film via in-situ polymerization
P-25	Diana Meza Rojas, Autonomous University of Madrid, Spain - Novels hole transporting materials based on tetrathienylbencene core unit for high efficiency perovskite solar cells
P-26	<b>Djoko Gabriel, Universitas Indonesia, Indonesia -</b> Customer acceptance evaluation of design for material value conservation using structural equation Modelling: A Case Study of Plastic Packaging
P-27	Dominika Czycz, Wroclaw University of Technology, Poland - Properties of thermoplastics filled with powder of igneous rock Gabbro
P-28	Eduardo Brocchi, Pontifical Catholic University of Rio de Janeiro, Brazil - Production, by chlorination, and characterization of titanium dioxide
P-29	Elena Miliutina, University of Chemistry and Technology, Czech Republic - The development of highly sensitive sensors based on the plasmon-active optical fiber with the introduction of the principles of smart plasmonics
P-30	Gregoire David, University of Monptellier, France - Gas-esterification on cellulose particles for the production of PHBV based biocomposites
P-31	Shuhei Ogata, Aoyama Gakuin University, Japan - Luminescence mechanism of a series of helicate Eu complexes in the mesocrystals
P-32	Ylea Vlamidis, Istituto Italiano di Tecnologia, Italy - Laccase and tyrosinase on electrochemically reduced GO and MWCNTs hybrid for the development of polyphenols biosensors
P-33	Hongda Chen, Chinese Academy of Sciences, China - Optoelectronic devices based 2D materials
P-34	Ikuko Nishio, Tottori University, Japan - Treatment satisfaction using insulin pump (CGM/SAP) among Japanese adult patients with type 1 diabetes: A large-scale study
P-35	Ikuko Nishio, Tottori University, Japan - Perceptions of psychosocial factors among insulin pump (CGM/SAP) users with type 1 diabetes in Japan
P-36	loan lorga, IFIN-HH, Romania - Radioactive inventory migration study for the VVR-S Research Reactor decommissioning project
P-37	Ivania Markova, University of Chemical Technology and Metallurgy-Sofia, Bulgaria - Nanomaterials based on intermetallic Co-Ni magnetic nanoparticles for biomedical applications
P-38	Jan Trejbal, Czech Technical University in Prague, Czech Republic - Study on time-depend surface properties of plasma treated polymer micro-fibers
	Jeferson Moreto, Federal University of Triangulo Mineiro, Brazil - Study behavior of Ca-ALG microparticles containing sulfentrazone herbicide based delivery
P-39	systems for the weed control

P-40	Jeferson Moreto, Federal University of Triangulo Mineiro, Brazil - Fluorescent carbon dots nanoparticles derived from natural material of "acerola" fruit for sensitive Fe (III) ions detection
P-41	Dongseob Kim, Korea Institute of Industrial Technology, South Korea - Triboelectric nanogenerators for mutiaxial kinetic energy harvesting
P-42	Josimar Ribeiro, UFES, Brazil - Development of quaternary PtSnNiGa/C electrocatalysts for ethanol oxidation
P-43	Julien Babic, CNRS, France - A new microfluidic device for live-cell imaging experiments
P-44	Kyujung Kim, Pusan National University, South Korea - A plasmon coupled whispering gallery modes biosensor for sensitivity enhancements
P-45	Liqian Huang, Donghua University, China - Numerical simulation of airflow and fiber motion in air-jet texturing nozzle
P-46	Markus Selin, University of Helsinki, Finland - Screening of interactions between Janus dendrimer coatings and drug nanocrystals
P-47	Meng-Hsuan Yang, National Chung Hsing University, Taiwan - Construction of novel fluorescence nanoparticles AIE@dots and the tunable emission progress with regulating the AIE and TICT effect
P-48	Min Wu, Chinese Academy of Sciences, China - Influence of solvent polarity on cellulose nanostructures
P-49	Mirjana Rodosek, National Institute of Chemistry, Slovenia - Effect of siloxane-modified epoxy resin on anticorrosion properties of coatings
P-50	Oleksiy Lyutokov, University of Chemistry and Technology, Czech Republic - Flexible and biodegradable electronics on the base of laser beam written arbitrary conductive path in thin polymer films
P-51	Olga Guselnikova, University of Chemistry and Technology, Czech Republic - Surface-modified gold plasmonic grating as platform for smart SERS sensors
P-52	Pavol Hvizdos, Slovak Academy of Sciences, Slovakia - Development of electrically conductive SiC based composites with carbon/carbide additives
P-53	Praveen Kumar S, Saveetha Engineering College, India - Porous based immunosensor for detection of LDL molecules from blood serum using array of cantilever beam
P-54	Praveen Kumar S, Saveetha Engineering College, India - Bacterial nanonetwork optimization using wireless adhoc sensors
P-55	Puhong Zhang, Peking University Health Science Center, China - Predictors of initiating basal-bolus regimen in type 2 diabetes patients with uncontrolled hyperglycemia by oral antidiabetic drugs in China
P-56	Puhong Zhang, Peking University Health Science Center, China - The lifestyle change after initiating basal insulin in insulin naive patients with type 2 diabetes: Results from the ORBIT study
P-57	Qian Zhang, Donghua University, China - Assessing the phase behavior, crystallization and mechanical properties of fully biodegradable poly(3-hydroxybutyrate-co-hydroxyvalerate) (PHBV) /poly(butylene succinate) (PBS) blends
P-58	Qijun Sun, Beijing Institute of Nanoenergy and Nanosystem, China - Positively-charged reduced graphene oxide as an adhesion promoter for highly-stable silver nanowire film
P-59	Qijun Sun, Beijing Institute of Nanoenergy and Nanosystem, China - Transparent, low-power pressure sensor matrix based on coplanar-gate graphene transistors
P-60	Qunying Wu, Guilin University of Technology, China - Optimization for sound absorption performance of porous materials based on variance analysis
P-61	Ralph Tatam, Cranfield University, UK - Multi-plane optical coherence tomography imaging for micro-fluidic velocity measurement
P-62	Rohidas Arote, Seoul National University, South Korea - Selective stimulation of caveolae-mediated endocytosis and hepatocyte targeting by hyperosmotic polylactitol-based gene transporter
P-63	Rosalia Poyato, University of Seville, Spain - Influence of graphene nanoplatelets orientation in a ceramic matrix on its scratch behavior
P-64	Sang-Woo Kim, Hankyong National University, South Korea - Fabrication of a nickel-coated optical fiber sensor and its applications
P-65	Santanu Das, IIT BHU, India - Two dimensional functional nanomaterials for electronic and energy devices
P-66	Sheng-Lung Tu, National Cheng Kung University, Taiwan - Optoelectronic characteristic of Al doping on GZO thin film
P-67	Soon-Ki Kwon, Gyeongsang National University, South Korea - Small molecule organic solar cells high efficiency toward processing additive- and thermal annealing-free
P-68	Stefan Andersson, SINTEF Materials and Chemistry, Norway - Fabrication and characterization of ilmenite particles for chemical looping
P-69	Stephan Armyanov, Bulgarian Academy of Sciences, Bulgaria - Selective metallization of laser irradiated biocompatible poly(dimethylsiloxane) by electroless deposition for future MEMS and medical applications
P-70	Tomasz Blaszczyk, Technical University of Denmark, Denmark - Towards airflow sensors with energy harvesting and wireless transmitting properties
P-71	Valentina Marchuk, University of Chemistry and Technology, Czech Republic - Advanced colloidal lithography for spatially-selective surface modification - an significant expansion of self-assembling structures application
P-72	Vasilii Burtsev, University of Chemistry and Technology, Czech Republic - Smart plasmonics based on graphene and precious metals for the next generation of optical modulators
P-73	Wei-Chao Chen, National Taiwan University, Taiwan - Enhanced solar cell performance of Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> thin films through structural control by using multimetallic stacked nanolayers and fast ramping process for sulfo-selenization
P-74	Xinhou Wang, Donghua University, China - Elastomeric and biodegradable Poly (1, 8-octanediol-co-citric acid)/Poly(lactic acid) nano-fibrous materials
P-75	Xue Wang, Chongqing University, China - Embedding variable micro-capacitors in polydimethylsiloxane for enhancing output power of triboelectric nanogenerator
P-76	Yeon-Tae Yu, Chonbuk National University, South Korea - Synthesis of PdO/ZnO core-shell nanoparticles and its gas sensing mechanism
P-77	Yi-Hsuan Chen, National Chung Hsing University, Taiwan - Fabrication of double emission enhancement fluorescence nanoparticle with combining the ICT and AIE effect

P-79	Yuan Li, Beijing Institute of Technology, China - Generalized predictive control for DEAP flexible bionic actuator with fuzzy model	
P-80	Yuji Miyahara, Tokyo Medical and Dental University, Japan - Fabrication of needle type pH sensor for quantitative caries detection	
P-81	Yukan Dai, Chonnam National University, South Korea - A microcantilever combining cell contraction force measurement with impedance analysis	
P-82	Yuki Hasegawa, Saitama University, Japan - Development of ethylene gas sensor for evaluating fruit ripening	
P-83	Yun-Hi Kim, Gyeongsang National University, South Korea - Facile route to control the ambipolar tansport in semiconducting materials	
P-84	Zdenek Prosek, Czech Technical University in Prague, Czech Republic - Interfacial shear strength enhancement of polymeric macro-fibers via plasma treatment	
P-85	Zeynep Altintas, Cranfield University, Germany - A fully automated microfluidic-based electrochemical sensor for real-time pathogen detection	
P-86	Zhicai He, South China University of Technology, China - Study on the effect of additives on morphology of active layer in organic solar cells	
P-87	$\textbf{Brigitte Bouchet-Fabre, NIMBE/CEA-CNRS, France -} \ \text{Magnetron-sputtered Ta}_3N_5 \ \text{thin films for water photoelectrolysis}$	
P-88 Zheng Zhang, University of Science and Technology Beijing, China - Strain modulation in 2D materials based optoelectronics for their performancement		
P-89	Alba Ardila, Politecnico Colombiano Jaime Isaza Cadavid, Colombia - Nature and distribution of Cu and Pd surface species on Cu-Pd/TiO <sub>2</sub> -Na bimetallic catalysts	
P-90	Alba Ardila, Politecnico Colombiano Jaime Isaza Cadavid, Colombia - Pt-WO <sub>x</sub> /ZrO <sub>2</sub> catalyst: W content Vs type of WO <sub>x</sub> species	
P-91	Pavel Grinchuk, A.V. Luikov Heat and Mass Transfer Institute, Belarus - Pyrolysis of various carbon precursors inside of porous silicon carbide matrix for reaction-sintered SiC substrates	
P-92	Javaid Butt, Anglia Ruskin University, UK - Production of layered metallic parts with enhanced tensile properties using the process of composite metal foil manufacturing	
P-93	Wenqing Xu, Chinese Academy of Sciences, China - Catalytic oxidation of Hg <sup>0</sup> from coal-fired flue gas over Mn modified montmorillonite	
P-94	Tingyu Zhu, Chinese Academy of Sciences, China - Catalytic method and catalysts for the abatement of industrial VOCs	
P-95	Boulahia Ramdane, USTHB, Algeria - New insights on the plastic deformation in multi-pass equal channel angular extrusion of semi-crystalline polymers	
P-96	Boulahia Ramdane, USTHB, Algeria - Evolution of the microstructure and mechanical properties of propylene treated by the multipasses ECAE process	
P-97	Xiaojing Yang, Beijing Normal Univerisity, China - Graphene formation in the interlayer of LRHs	
P-98	Dae-Gab Gweon, KAIST, South Korea - Analysis of disturbance forces in magnetic levitation system with complex force-current matrix	
P-99	Daniel Kropman, Tallinn University, Estonia - Point defects identification and modification in the Si-SiO <sub>2</sub> system	
P-100	$\textbf{Daniel Kropman, Tallinn University, Estonia -} \ \textbf{Ultrasound influence on the Si-SiO}_2 \ \text{system defects structure}$	
P-101	Zhong Fuxin, Guilin University of Technology, China - Preparation and photoelectric properties of Cu <sub>2</sub> O thin film by anodic oxidation method	
P-102	Djahida Talantikite-Touati, Abderrahmane Mira University, Algeria - Study of the properties of La-doped ZnS thin films synthesized by sol-gel method	
P-103	Mohammadreza Kolahdouz, University of Tehran, Iran - Improved glucose electrochemical sensing benefiting from electric field behavior	
P-104	Mohammadreza Kolahdouz, University of Tehran, Iran - Flexible micro gripper using novel IPMC fabrication scheme for medical application	
P-105	Matin Frouzmeher, University of Tehran, Iran - Terahertz photoconductive antenna efficiency improvement using gold nanoplasmonic structure	
P-106	Matin Frouzmeher, University of Tehran, Iran - Terahertz photoconductive antenna efficiency improvement using ZnO nanorods	
P-107	Matin Frouzmeher, University of Tehran, Iran - Comparison of two different synthesis methods of metal trihalide perovskite in terms of morphology and crystallinity	
P-108	Mostafa Masnadi Shirazi, University of Tehran, Iran - Light management in ultra-thin Si solar cell using metal nanostructures	
P-109	Mostafa Masnadi Shirazi, University of Tehran, Iran - A novel drug delivery chip design with IPMC as an actuator	
P-110	Ayushi Tiwari, Katedralskolan, Sweden - A study on nanobiocatalysis of glucose over the glucose oxidase functionalized gold nanoparticles	
19.30-19.45	Meeting of Poster Jury	

Yi-Liang Liou, National Chung Hsing University, Taiwan - Development of a cell death biomarker based on nuclear translocation during photosensitization



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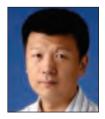
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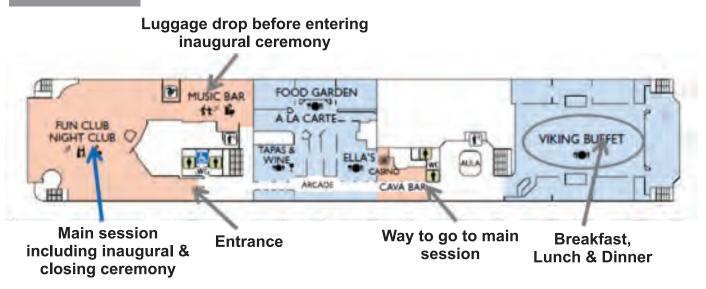
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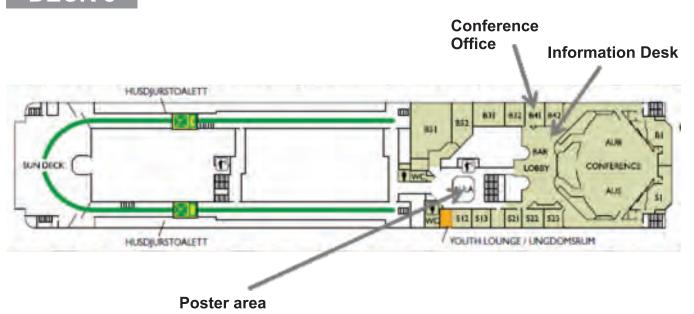
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