	SUNDAY, 7.09		MONDAY,	8.09 / Room - London	
8:30-9:00		Opening Ceremony		8:30-9:00	
9:00-9:45		Sara Majetich	1842	Magnetic Tunnel Junction Artificial Spin Ice Dynamics	9:00-9:45
9:45-10:30		Vladimir Tsukruk	1577	Ultrathin Functional Hybrid Nanomaterials for Integrated Wearable Electronics	9:45-10:30
10:30-11:00			c	offee break	10:30-11:00
11:00-11:45		Saw Wai Hla	1524	Atomically Precise Control Operation of Molecular Machines	11:00-11:45
11:45-12:15			Gı	roup Photo	11:45-12:15
12:15-2:00			Lu	nch break	12:15-2:00
2:00-2:45		Yury Gogotsi	1907	Assembly of MXene-Based Materials with a Multitude of Functionalities	2:00-2:45
2:45-3:30		Babak Anasori	1822	Complex Chemistries and Defect Engineering in MXenes: From Fundamentals to Properties	2:45-3:30
3:30-4:00			Co	offee break	3:30-4:00
4:00-5:00	Registration		A	l Forum	4:00-5:00
5:00-6:30		MXe	ne Symp	osium Poster Session	5:00-6:30
6:30 -7:00					

Welcome reception

7:00 -9:00

T		Business	TUESDAY, 9.09	
	rack N	Presenter	Title	Session Ch
:30 - 8:50	1655	Christopher Eugene Shuck	Advances in Solid-Solution MXenes	
:50 - 9:00	1609	Xinming Xing	Controlled Growth of MXenes via Chemical Vapor Deposition: From Nanoscale Crystals to Continuous Films	· <del>-</del>
:00 - 9:20	1666	Vadym Mochalin	Reactivity and Applications of 2D Transition Metal Carbides (MXenes)	sor
:20 - 9:30	1518	Adéla Jagerová	Structure and stability of PVD prepared scandium and zirconium 2D carbides	Ana
:30 - 9:50	1686	Per Persson	The influence of MXene terminations on structure and stability	Babak Anasori
:50 - 10:00	1729	Anna Grzegórska	From Synthesis to Application: The Role of MXenes in Advanced Photocatalytic Systems	Bak
0:00 - 10:20	1677	lgor latsunskyi	Engineering Metal Oxide–MXene Nanocomposites for Advanced (Photo)Electrochemical Applications in Energy and Biosensing	
0:20 - 10:30	1745	Aniello Zabatta	PASSIVE PROTECTIVE SHIELDS FOR LUNAR OUTPOSTS	
0.20 - 10.30			Coffee break	
1:00 - 11:20	1707	Anirudha Sumant	Superlubricity: A Quest For Developing Long Lasting Solid Lubricant Utilizing MXene	
	1531	Shalu Atri	MXene-Based Materials: Unlocking Advanced Oxidation in Dark Environments	
1:20 - 11:30	1703	Chong Min Koo	MXenes for Enhanced EMI shielding and Thermal Management	₹
1:30 - 11:50	1694	Hari Hara Sudhan Thangavelu	INTERLAYER MODIFICATION ON TI3C2TZ MXENE MULTILAYER BY TAILORING SURFACE	lgor latsunskyi
1:50 - 12:00	1872	Zdenek Sofer	TERMINATIONS  Crystal growth of MAX phases and its topochemical conversions towards energy applications	atsı
2:00 - 12:20			- · · · · · · · · · · · · · · · · · · ·	P.
2:20 - 12:30	1588	Ken Aldren Sumaya Usman	SEQUENTIALLY BRIDGED MXENE ARCHITECTURES	<u> 5</u>
2:30 - 12:50	1586	Seon Joon Kim	Tailored Surface Functionalization of MXenes for Conductive, Amphiphilic Dispersions and Inks  Mechanistic Insights into Enhanced Water Resistance of MXenes: The Roles of Microstructure and Surface	
2:50 - 13:00	1820	Akimaro Yanagimachi	Chemistry	
			Lunch	
4:30 - 14:50	1720	Maksym Pogorielov	Application of MXenes in Therapeutic Strategies	
4:50 - 15:00	1776	Volodymyr Deineka	The Biological Flake Size–Dependent Effects of Titanium MXenes for Biomedical Applications	
5:00 - 15:20	1844	Sanjiv Dhingra	Immunomodulatory MXenes for cardiac regenerative medicine	ţşi
	1750	Kateryna Diedkova	The Role of Surface Terminations in Ti-Based MXenes Biocompatibility: Effects of Intercalation and Etching	ogo
5:20 - 15:30				<b>/</b> D
	1894	Lucia Gemma Delogu	2D Materials, MXenes: High Dimensional Immune Approaches Toward Biomedical Applications	<u>خ</u>
5:30 - 15:50	1894 1736	Lucia Gemma Delogu  Viktoriia Korniienko	MXENE AS ANTIBACTERIAL AGENTS: OVERCOMING THE LIMITED ANTIBACTERIAL EFFICACY OF	Yury Gogotsi
5:20 - 15:30 5:30 - 15:50 5:50 - 16:00		_		Yury
5:30 - 15:50 5:50 - 16:00 6:00 - 16:20	1736	Viktoriia Korniienko	MXENE AS ANTIBACTERIAL AGENTS: OVERCOMING THE LIMITED ANTIBACTERIAL EFFICACY OF MXENES WITH PHOTOTHERMAL AND ANTIBODY-MEDIATED STRATEGIES  MXenes in next generation cancer therapies  IN-VIVO CHARACTERIZATION OF THE MXENE-ANTI-CEACAM1 COMPLEX FOR PHOTOTHERMAL	Yury 6
5:30 - 15:50 5:50 - 16:00 6:00 - 16:20	1736 1865	Viktoriia Korniienko Açelya Yilmazer	MXENE AS ANTIBACTERIAL AGENTS: OVERCOMING THE LIMITED ANTIBACTERIAL EFFICACY OF MXENES WITH PHOTOTHERMAL AND ANTIBODY-MEDIATED STRATEGIES  MXenes in next generation cancer therapies	Yury
<b>5:30 - 15:50</b> 5:50 - 16:00 <b>6:00 - 16:20</b> 6:20 - 16:30	1736 1865 1787	Viktoriia Korniienko  Açelya Yilmazer  Anastasia Konieva	MXENE AS ANTIBACTERIAL AGENTS: OVERCOMING THE LIMITED ANTIBACTERIAL EFFICACY OF MXENES WITH PHOTOTHERMAL AND ANTIBODY-MEDIATED STRATEGIES  MXenes in next generation cancer therapies  IN-VIVO CHARACTERIZATION OF THE MXENE-ANTI-CEACAM1 COMPLEX FOR PHOTOTHERMAL TARGETED MELANOMA TREATMENT  Coffee break	Yury 6
5:30 - 15:50 5:50 - 16:00 6:00 - 16:20 6:20 - 16:30 7:00 - 17:20	1736 1865 1787	Viktoriia Korniienko  Açelya Yilmazer  Anastasia Konieva  Laura Fusco	MXENE AS ANTIBACTERIAL AGENTS: OVERCOMING THE LIMITED ANTIBACTERIAL EFFICACY OF MXENES WITH PHOTOTHERMAL AND ANTIBODY-MEDIATED STRATEGIES  MXenes in next generation cancer therapies  IN-VIVO CHARACTERIZATION OF THE MXENE-ANTI-CEACAM1 COMPLEX FOR PHOTOTHERMAL TARGETED MELANOMA TREATMENT	
5:30 - 15:50 5:50 - 16:00 6:00 - 16:20 6:20 - 16:30 7:00 - 17:20	1736 1865 1787 1752 1742	Viktoriia Korniienko  Açelya Yilmazer  Anastasia Konieva  Laura Fusco  Sergiy Kyrylenko	MXENE AS ANTIBACTERIAL AGENTS: OVERCOMING THE LIMITED ANTIBACTERIAL EFFICACY OF MXENES WITH PHOTOTHERMAL AND ANTIBODY-MEDIATED STRATEGIES  MXenes in next generation cancer therapies  IN-VIVO CHARACTERIZATION OF THE MXENE-ANTI-CEACAM1 COMPLEX FOR PHOTOTHERMAL TARGETED MELANOMA TREATMENT  Coffee break  MXene Chemistry Shapes Protein Corona Identity and Immune Cell Interactions	Primo
5:30 - 15:50 5:50 - 16:00 6:00 - 16:20 6:20 - 16:30 7:00 - 17:20 7:20 - 17:30	1736 1865 1787 1752 1742 1829	Viktoriia Korniienko  Açelya Yilmazer  Anastasia Konieva  Laura Fusco  Sergiy Kyrylenko  Shashwat Sharma	MXENE AS ANTIBACTERIAL AGENTS: OVERCOMING THE LIMITED ANTIBACTERIAL EFFICACY OF MXENES WITH PHOTOTHERMAL AND ANTIBODY-MEDIATED STRATEGIES  MXenes in next generation cancer therapies  IN-VIVO CHARACTERIZATION OF THE MXENE-ANTI-CEACAM1 COMPLEX FOR PHOTOTHERMAL TARGETED MELANOMA TREATMENT  Coffee break  MXene Chemistry Shapes Protein Corona Identity and Immune Cell Interactions  Both Nb2CTx And Ti3C2Tx MXenes Induce Potent Immunomodulatory Effects In Primary Human Monocyte-Derived Macrophages  DESIGN AND DEVELOPMENT OF MXENE@MoS <sub>2</sub> NANOHYBRIDS FOR SYNERGISTIC TRIMODAL ANTIBACTERIAL THERAPY	Primo
5:30 - 15:50 5:50 - 16:00 6:00 - 16:20 6:20 - 16:30 7:00 - 17:20 7:20 - 17:30	1736 1865 1787 1752 1742 1829 1567	Viktoriia Korniienko  Açelya Yilmazer  Anastasia Konieva  Laura Fusco  Sergiy Kyrylenko  Shashwat Sharma  Anton Popov	MXENE AS ANTIBACTERIAL AGENTS: OVERCOMING THE LIMITED ANTIBACTERIAL EFFICACY OF MXENES WITH PHOTOTHERMAL AND ANTIBODY-MEDIATED STRATEGIES  MXenes in next generation cancer therapies  IN-VIVO CHARACTERIZATION OF THE MXENE-ANTI-CEACAM1 COMPLEX FOR PHOTOTHERMAL TARGETED MELANOMA TREATMENT  Coffee break  MXene Chemistry Shapes Protein Corona Identity and Immune Cell Interactions  Both Nb2CTx And Ti3C2Tx MXenes Induce Potent Immunomodulatory Effects In Primary Human Monocyte-Derived Macrophages  DESIGN AND DEVELOPMENT OF MXENE@MOS2 NANOHYBRIDS FOR SYNERGISTIC TRIMODAL ANTIBACTERIAL THERAPY  MXenes as Advanced Nanomaterials for Enzymatic Biosensor Development	Primo
<b>5:30 - 15:50</b> 5:50 - 16:00	1736 1865 1787 1752 1742 1829 1567 1672	Viktoriia Korniienko  Açelya Yilmazer  Anastasia Konieva  Laura Fusco  Sergiy Kyrylenko  Shashwat Sharma  Anton Popov  Amina Rhouati	MXENE AS ANTIBACTERIAL AGENTS: OVERCOMING THE LIMITED ANTIBACTERIAL EFFICACY OF MXENES WITH PHOTOTHERMAL AND ANTIBODY-MEDIATED STRATEGIES  MXenes in next generation cancer therapies  IN-VIVO CHARACTERIZATION OF THE MXENE-ANTI-CEACAM1 COMPLEX FOR PHOTOTHERMAL TARGETED MELANOMA TREATMENT  Coffee break  MXene Chemistry Shapes Protein Corona Identity and Immune Cell Interactions  Both Nb2CTx And Ti3C2Tx MXenes Induce Potent Immunomodulatory Effects In Primary Human Monocyte-Derived Macrophages  DESIGN AND DEVELOPMENT OF MXENE@MoS2 NANOHYBRIDS FOR SYNERGISTIC TRIMODAL ANTIBACTERIAL THERAPY  MXenes as Advanced Nanomaterials for Enzymatic Biosensor Development  Two-dimensional double transition metal MXenes in electrochemical biosensors	Primo
5:30 - 15:50 5:50 - 16:00 6:00 - 16:20 6:20 - 16:30 7:00 - 17:20 7:20 - 17:30 7:30 - 17:40	1736 1865 1787 1752 1742 1829 1567	Viktoriia Korniienko  Açelya Yilmazer  Anastasia Konieva  Laura Fusco  Sergiy Kyrylenko  Shashwat Sharma  Anton Popov	MXENE AS ANTIBACTERIAL AGENTS: OVERCOMING THE LIMITED ANTIBACTERIAL EFFICACY OF MXENES WITH PHOTOTHERMAL AND ANTIBODY-MEDIATED STRATEGIES  MXenes in next generation cancer therapies  IN-VIVO CHARACTERIZATION OF THE MXENE-ANTI-CEACAM1 COMPLEX FOR PHOTOTHERMAL TARGETED MELANOMA TREATMENT  Coffee break  MXene Chemistry Shapes Protein Corona Identity and Immune Cell Interactions  Both Nb2CTx And Ti3C2Tx MXenes Induce Potent Immunomodulatory Effects In Primary Human Monocyte-Derived Macrophages  DESIGN AND DEVELOPMENT OF MXENE@MOS2 NANOHYBRIDS FOR SYNERGISTIC TRIMODAL ANTIBACTERIAL THERAPY  MXenes as Advanced Nanomaterials for Enzymatic Biosensor Development	Primo

		WEDNESDAY, 10.09
Т	rack N Presenter	Title
:00 - 8:30	1905 Patrice Simon	Tailoring MXene Surface Chemistry for Enhanced Electrochemical Performance
:30 - 8:50	1828 Lorena Manzanares	Single-Molecule Biosensing with MXene Energy Transfer
:50 - 9:00	1708 Arezki BENFDILA	On 2D MXene Nanosheets FETs (MXFETs) Progress
		SURFACE MATTERS: UNLOCKING THE APPLICATION OF MXENES THROUGH SURFACE
:00 - 9:20	1635 Simonas Ramanavičius	CHEMISTRY
		Molten salt assisted synthesis of Monodispersed flower-like Mo2V2C3Tx MXene clusters with superior anode
:20 - 9:30	1436 Mugilan Narayanasamy	performance for Lithium-ion batteries
		MXene for Advanced Electromagnetic and Antenna Applications Featuring Design Reconfigurability
:30 - 9:50	1712 Mohammad H. Zarifi	and Environmental Adaptability
		Controlling Zinc Deposition via Ti3C2Tx MXene Flake Engineering for Anode-Free Zinc/Prussian Blue
:50 - 10:00	1642 Prisca Viviani	Analogue Batteries
0:00 - 10:20	1816 Parikshit Sahatiya	MXene-TMDs Hybrid Based Flexible and Wearable Devices and Systems
):20 - 10:30	1646 Mia Angela Nuñeza Judicpa	High-temperature MXene-based Energy Storage with Solvate Ionic Liquid Electrolytes
		Coffee break
:00 - 11:20	1785 Ana Primo	Efficiency
		Aligned 2D Ti3CNTx MXene/PVDF-TrFE Composite Fibers: A Pathway to Enhanced Piezoelectricity for
1:20 - 11:30	1390 Jyoti Jaiswal	Smart Sensing and Energy Harvesting
		Mo-based MXene for electrocatalysis (Hydrogen Evolution Reaction) and thermal catalysis (ammonia
1:30 - 11:50	1590 Stéphane Célérier	synthesis)
		INFLUENCE OF SURFACE ROUGHNESS AND POROSITY ON THE TRIBOLOGICAL PERFORMANCE
1:50 - 12:00	1644 Hakan Göcerler	OF TITANIUM-HYDROXYAPATITE COMPOSITES WITH MXENE LUBRICATION
:00 - 12:20	1704 Haya Alyssi	Applications of Two-Dimensional MXenes for the Removal of Emerging Contaminants from Water
2:20 - 12:30	1682 Indrajit Mahadev Patil	Trimethylammonium triflate as promising protic ionic-liquid electrolyte for Ti3C2 MXene supercapacitors
		MXenes as Heterogeneous Thermal Catalysts: Regioselective Anti-Markovnikov Hydroamination of
2:30 - 12:50	1783 Hermengildo Garcia	Terminal Alkynes with 102 h–1 Turnover Frequencies
		Nanostructure Engineering of $Ti_3C_2T_x$ , $Nb_2CT_x$ , and $V_2CT_x$ MXenes for High-Performance Inkjet-Printed
2:50 - 13:00	1697 Yahya Sorkhe	Microsupercapacitors
		la.h
		Lunch
4:30 - 14:50	1871 Tristan Petit	In Situ Monitoring of Confined Water, Protons and Ions in Ti3C2Tx MXenes down to Single Flakes
		Guided growth of transition metal double hydroxides (LDHs) and layered hydroxides (LHs) on
4:50 - 15:00	1400 Zhongpeng Lyu(Lv)	Ti3C2Tx nanoflakes for electrocatalysis
5:00 - 15:20	1772 Faisal Shahzad	Safeguarding Environment and Communications: MXenes for Water Remediation and EMI Shielding.
		PLASMA-INDUCED SURFACE TAILORING OF Ti $_2$ C MXENES FOR ADVANCED SUPERCAPACITOR
5:20 - 15:30	1684 Anjana Baby	APPLICATIONS
5:30 - 15:50	1819 Francesc Viñes	Computational Assessment of MXenes Bandgap Engineering for Photocatalytic Water Splitting
		Binder-free integration of Ti3C2 MXene on graphene nanowalls-coated carbon felt for hydrogen evolution
5:50 - 16:00	1741 Roger Amade Rovira	catalysis
		Atomistic Understanding of MXenes as Catalysts and Single-Atom Catalyst Supports for
6:00 - 16:20	1824 Aleix Comas-Vives	C1 Conversion
6:20 - 16:30	1446 Olivier Monfort	MXENES AS INNOVATIVE PRECURSORS FOR WASTEWATERS TREATMENT CATALYSTS

		THURSDAY, 11.09	
Tra	ack N Presenter	Title	Session Cha
8:00 - 8:30	1807 Michael Naguib	Tailoring MXenes at Atomic and Nanoscale for Energy Applications	
8:30 - 8:50	1874 MARIA LUKATSKAYA	Diverse Strategies for Pseudocapacitance in 2D Materials and beyond	
		Engineering MXene/metal composites from MAX phase/metal-Al precursors for Hydrogen Evolution	.⊑
8:50 - 9:00	1431 Sergii Sergiienko	Application	<u>=</u>
9:00 - 9:20	1700 Masashi OKUBO	MXene for all solid state batteries	Ę,
		$Ti_3C_2$ -MXenes as Catalysts for the Direct Conversion of Methane: Unravelling Structure–Activity	ŏ
9:20 - 9:30	1435 Mihaela Florea	Relationships	Σ
9:30 - 9:50	1889 Max Mahiar Hamedi	MXene-based iontronics devices for actuation and computation	Vadym Mochalin
		Multilayered Ti3C2 MXene as heterogeneous catalyst for the guanylation of carbodiimides with high turnover	<del>\frac{2}{6}</del>
9:50 - 10:00	1434 Aicha Anouar	frequency	Ď.
		Understanding the Behaviour of 2D MXene Nanosheets in Low pH Environments for Pure MXene Fiber	_
10:00 - 10:10	1733 Kim Marie Sisican	Formation	
		Coffee break	
11:00 - 11:20	1602 Minghao Yu	Termination Engineering in MXenes and Their Charge Transport/Storage Properties	
		Spectroscopic Micro-Ellipsometry Reveals Optical, Structural, and Charge Transport Properties of Individual	ē
11:20 - 11:30	1616 Andreas Furchner	MXene Flakes	Açelya Yilmazer
11:30 - 11:50	1706 Felice Torrisi	Charge and thermal transport in printed films of two-dimensional materials	Ē
		EXPLORING THE SURFACE AND STRUCTURAL EVOLUTION OF ${\sf Ti}_3{\sf C}_2{\sf Tz}$ AT NEAR-ATMOSPHERIC	⋤
11:50 - 12:00	1688 Changjie Huang	PRESSURES VIA CLOSED-CELL STEM	้ต
12:00 - 12:20	1817 José Daniel Gouveia	Evolution of MXene models for catalysis and sensing: driven by curiosity, necessity, and reality	<u>&gt;</u>
12:20 - 12:30	1689 Sergii Chertopalov	Enhancement of the catalytic activity of Ti3C2Tx MXene by excitation of surface plasmon-polaritons	_ වූ
12:30 - 12:50	1879 Shayan Seyedin	MXene Energy Yarns: Powering the Future of Soft Wearable Technology	ď
12:50 - 13:00	1732 Rochelle Ibabao	Understanding the Transformation of MXene (Ti3C2Tx) and SiC Interfaces Under High Temperatures	
		Lunch	
		Mechanistic Insights into High-Rate Electrochemical Energy Storage Using MXenes and MXene-	
14:30 - 14:50	1835 Xuehang Wang	Based Heterostructures	
14:50 - 15:00	1763 Xinnian Li	Structure-activity Investigation Of MXenes For Solution-based Surface Enhanced Raman Spectroscopy	ţ
		Defect Engineering In MXenes Using Ion Beams: Spectroscopic Characterizations And Properties	ဓ္က
15:00 - 15:20	1685 Vincent Mauchamp	Modifications.	Oleksiy Gogotsi
15:20 - 15:30	1677 Eslam Mahmoud	Can Ti-Based MXenes Serve as Solid Lubricants for Brake Applications? A Tribological Study	Ö
15:30 - 15:50	1696 Maxim Sokol	Clean and Scalable Micropatterning of MXene Thin Films	چَ.
		Pulsed Electrochemical Exfoliation for an HF-free sustainable MXene Synthesis and Solid Lubrication	<u> </u>
15:50 - 16:00	1671 Marko Piljevic	Performance	<u>e</u>
10.00 10.10	4000 Ohaa laaa Oadadaa	Data-Driven Optimization of Fluorine-Free Ti3C2Tx Composites for Exceptional Microwave Absorption at	0
16:00 - 16:10 16:10 - 16:30	1382 Chandana Gadadasu	Ultra-Low Concentration Tunable Structural Colors with 'Light-Lossy' MXene Paints	
10:10 - 10:30	1604 Meikang Han		
		Coffee break	
17:00 - 17:20	1858 Qing Huang	Chemical Scissor-Mediated Structural Editing of Layered Transition Metal Carbides and Beyond	J
17:20 - 17:30	1790 Roy Alvin Jolo Malenab	Sintering strategy of MXene-templated TiCy–BaTiO3 heterostructures	_ <u> </u>
		MXenes functionality as solid lubricants investigated by ab inito calculations combined with	¥ 2
17:30 - 17:50	1876 Maria Clelia Righi	experiments	Christopher Eugene Shuck
17:50 - 18:00	1766 Tufail Hassan	Semiconducting Titanium Nitride Ti4N3Tx MXene with Gate-Tunable Electrical Conductivity	st(
		Theoretically Predicting and Experimentally Verifying A-Element Substitution and MXene Formation	E ii
18:00 - 18:20	1758 Johanna Rosen	in Reactions Between MAX Phases and Molten Salts	<u>්</u> පු වූ
18:20 - 18:40	1813 De-en Jiang	Multidentate Ligands on MXene Surfaces	ш

	FRIDAY, 12.09
8:30-8:45	
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Noon-12:15	
12:15-12:30	
12:30-12:45	
12:45-1:00	
1:00-1:30	
1:30-2:00	Award & Closing
2:00-2:15	
2:15-2:30	Ceremony