



European Materials Research Society

2024 Spring Meeting

May 27 - 31 / Strasbourg Convention Centre

SYMPOSIUM 5

Semiconductor nanostructures towards opto-electronic
and photonic device applications – IX

Symposium Organizers:

Francesco CARULLI, University of Milano-Bicocca, Milano, Italy

Quinten AKKERMAN, Photonics and Opto-electronics Group, Ludwig Maximilian University of Munich (LMU)

Sandrine ITHURRIA, Laboratoire de Physique et d'Etude des Matériaux

Sergio BROVELLI (Main organizer), University of Milano-Bicocca, Department of Materials Science, Milano, Italy

Monday May 27

S01_Perovskite nanostructures: Synthesis and engineering

ETOILE A - FIRST FLOOR

08:45	3089	INV	Halide perovskite nanocrystals: insights into their growth mechanism, surface properties and transformations	Manna Liberato
09:30	2651		Molecular Understanding of the Growth and Surface Characteristics of Highly Luminescent CsPbBr ₃ Nanoparticles: Scalable Synthesis for Optoelectronic Applications	FANIZZA Elisabetta
09:45	2961		MAPbI ₃ surface passivation using organic molecules with ammonium groups	ROSAN PRADHAN Rakesh

Monday May 27

S02_Perovskite nanocrystals: Optical properties and applications I

ETOILE A - FIRST FLOOR

10:30	3085	INV	Single-photon superradiance in individual caesium lead halide quantum dots	RAINÒ Gabriele
11:00	2349		Nanophotonic engineering of perovskite metasurface LEDs	NGUYEN Trong Tam
11:15	1601		Tuning Charge Carrier Dynamics through Spacer Cation Functionalization in Layered Halide Perovskites: An ab initio Quantum Dynamics Study	KUMAR NAYAK Pabitra
11:30	222		Manipulating spin-polarized electrons of halide perovskite nanocrystals for photocatalytic CO ₂ reduction	CHEN Chun-Wei
11:45	1555		One-Step Perovskite-Initiated PET-RAFT Polymerization as Efficient Method for the Production of Plastic Nanocomposites	BELLOTTI Valentina

Monday May 27

S03_Nanomaterials for photonic and (opto) electronic devices I

ETOILE A - FIRST FLOOR

13:45	3083	INV	Semiconductor Nanocrystal Optoelectronics	DEMIR Hilmi Volkan
14:15	465		Achieving 1% photo-induced strain under modulated light in ferroelectric thin films	VITALI-DERRIEN Gaëlle
14:30	1283		Investigation on transferrable GaN-based Micro-LEDs heterostructures grown on h-BN	TRAN Thi May
14:45	2454		Correlative SEM and Cathodoluminescence study of the microstructural and optical properties of strontium vanadate for white LED development	DATTI Yanis
15:00	1019		Photo-Ferroelectric Van Der Walls Neuromorphic Device	SOLIMAN Mohamed
15:15	537		Enhancing Perovskite Solar Cell Performance through Buried Interface Passivation Strategies via Self-Assembled 2D Phase Formation	KIM Jihyun
15:30	292		Reconfigurable Multifunctional van der Waals Ferroelectric Devices and Logic Circuits	RAM Ankita

Monday May 27

S04_2D materials and quantum wells

ETOILE A - FIRST FLOOR

16:30	2195		Tuneable physical properties of MoS ₂ for optoelectronic devices: substrate interaction and strain-doping tailoring in thermally controlled conditions	SANGIORGI Emanuele
16:45	2685		InGaAs/GaAs and GaAsBi/GaAs multiple quantum wells for NIR VECSELS	BUTKUTE Renata
17:00	2100		Large-area type-II MoS ₂ -WS ₂ heterostructures for visible-light photoconversion	FERRANDO Giulio
17:15	2452		Influence of different confinement on optical properties of single GaAsBi/AlGaAs quantum wells	DUDUTIENE Evelina

17:30	1911		Dynamics of excitons in polar ZnO / ZnMgO quantum wells investigated by non-degenerate pump-probe spectroscopy	SIEBADJI TCHUIMENI Daniel Osee
17:45	1891		Optimization of AlSb dislocation filter layer for GaSb-based quantum well laser grown on Si(001)	GRASER Karl
18:00	2315		Mid-infrared intersubband transitions in hole-doped Ge/SiGe quantum wells	FAVERZANI Marco
08:45	3050	INV	Colloidal Quantum Dot Nanocrystals Towards Opto-Electronic Device Applications	CHEN Ou
09:15	286		Electronic structure of thin HgTe colloidal nanoplatelets: when band coupling matters	CLIMENTE Juan Ignacio
09:30	749		Lasing Properties in Self-Assembled Quantum Dot Superparticles	MESSINA Fabrizio
09:45	2620		Molar ratio precursor investigation: a simple route to fabricate unfiltered carbon dot-based electroluminescent devices	TRAPANI Danilo

Tuesday May 28

S06_Nanocrystal quantum dots II

ETOILE A - FIRST FLOOR

10:30	3082	INV	Deterministic sources of indistinguishable photons in entangled cluster states	GERSHONI David
11:00	948		Design of Experiments Optimization of SiO ₂ Shell Growth on semiconductor nanocrystals: A Pathway Toward Photonic Integration	FIORITO Sergio
11:15	2316		Tailoring the fate of carriers in quantum dot solids through connectivity: from cooling to trapping	TIEDE David Otto
11:30	1065		Enriching the library of highly symmetrical metal chalcogenide branched nanostructures for highly efficient photocatalysis	ZHAI Li
11:45	1853		Colloidal quantum dots for near-infrared light-emitting diodes	DI STASIO Francesco

Tuesday May 28

S07_Nanomaterials for photonic and (opto) electronic devices II

ETOILE A - FIRST FLOOR

13:45	3091	INV	Mid-Infrared colloidal quantum dot detectors and emitters	GUYOT-SIONNEST Philippe
14:15	2804		Transition Metal-Doped Silicon Quantum Dots for Efficient Spin Filtering Device	ARORA Hemant
14:30	1503		High-Resolution and Stable 2D Ruddlesden-Popper Perovskite Flexible Photodetector Arrays for Optical Imaging Application	PAUपोर्टÉ Thierry
14:45	325		Gapless linear dispersion in Bi ₂ Se ₃ nanoparticles for high-performance broadband photodetectors	GHODS Soheil
15:00	170		The Role of Interfacial Energy Band Offset in Controlling the Dark Current of Broadband Perovskite-Organic Heterojunction Photodetectors	NODARI Davide
15:15	2653		Visible-Blind Quantum Dot Downconverters for UV-Enhanced Si CMOS Sensors and UV-Band Discriminator	SAHA Avijit
15:30	2077		Mapping Dislocations in VECSELs: Hyperspectral Imaging for Improved Semiconductor Laser Production	VAITKEVICIUS Augustas

Tuesday May 28
SP01_Poster session

ETOILE - FIRST FLOOR

16:30	01_1039	120	01_1039 Energy Partitioning in Multicomponent Nanoscintillators for Enhanced Radiotherapy	MONGUZZI Angelo
16:30	04_1276	120	04_1276 Inorganic lead halide perovskite quantum dot sensitized solar cells with CsPbBr ₃ and CsPbI ₃ QDs photosensitizers	ROY Baidyanath
16:30	06_1308	120	06_1308 Tactile Neuromorphic Display Enabled by Electrically Switchable Block Copolymer Structural Color	LEE Kyuho
16:30	07_1311	120	07_1311 Emission peculiarities in MOCVD deposited undoped SnO ₂ layers	LIU Poting
16:30	08_1326	120	08_1326 Photoelectronic Properties and Dynamic Polarization Switching in Strain-Induced Superdomains	CHEN Yi-Chun
16:30	09_1377	120	09_1377 Flexible and Lightweight Wearable Self-powered Ultraviolet-C Photodetector with α -Ga ₂ O ₃ on 75 GSM paper Substrate	VARSHNEY Urvashi
16:30	11_1650	120	11_1650 Regulate Defects and Energy Levels for Perovskite Solar Cells by Co-modification Strategy	SHI Shengwei
16:30	13_180	120	13_180 Retarding the Hot Carrier Relaxation Dynamics in CsPbX ₃ (X=Br/Cl) Nanocrystals through Surface Passivation Technique for optoelectronic applications	DAS Antika
16:30	14_1819	120	14_1819 Study on crack formation in strained SiGe/Ge-on-Si(111) via ultrasonic treatment	SHIBAHARA Yuka
16:30	15_1831	120	15_1831 Development of interface control and post-processing technology to improve reliability of high-mobility oxide transistors	KIM Jong Woo
16:30	16_1837	120	16_1837 Enhancement of PL intensity from Ge microbridges via surface passivation by ALD.	INOUE Takahiro
16:30	19_2209	120	19_2209 Time-varying optical modulation in nanomembranes	DHIMAN Anuj Kumar
16:30	20_2252	120	20_2252 On-glass ultra-thin GaAs solar cells for space-based solar power generation transferred by low-temperature anodic bonding	LI Jiayi

16:30	21_2264	120	21_2264 Reversible Effects Between Capping agent and Dopant atom in tuning the Photoluminescence spectra with Structural Transformation	NASKAR Rahul
16:30	22_2267	120	22_2267 Enhanced photoconductivity through dislocations in Fe-doped SrTiO ₃ ; compensation of low mobility by high charge carrier density	SOLEIMANY Mehrzad
16:30	23_2339	120	23_2339 The organic electronics of carbon nanotubes aimed at electronic noses	SOARES BORRO Marcelo
16:30	24_2352	120	24_2352 Exploring A-Site Cation Variations in Dion–Jacobson Two-Dimensional Halide Perovskites for Enhanced Solar Cell Applications: A Density Functional Theory Study	KAGDADA Hardik
16:30	25_2371	120	25_2371 An efficient multispectral lead-free perovskite photodetector based on light trapping engineering	DJEFFAL Faycal
16:30	26_2612	120	26_2612 Robust, reproducible, low waste and large scale procedure for high quality CsPbBr ₃ nanobricks synthesis for scintillation	MECCA Sara
16:30	27_2624	120	27_2624 MoSe ₂ Decorated Ga ₂ O ₃ on sapphire (0001) and GaN/sapphire (0001) for broadband UV-C to NIR Photodetector	AGGARWAL Vishnu
16:30	28_2634	120	28_2634 Bidirectional self-powered photodetector based on unique GaN epitaxial thin film	VASHISHTHA Pargam
16:30	29_2647	120	29_2647 Architectural design of flexible and transparent photodetector via layer transfer technique based on MBE grown MoTe ₂ nanosheets	CHAUDHARY Nahid
16:30	30_2680	120	30_2680 Feasible stabilization of the high-temperature phases for copper selenide nanocrystals within the silica sol-gel glasses	GURIN Valerij
16:30	32_2756	120	32_2756 Intrinsically stretchable three primary light-emitting films enabled by elastomer blend for skin display	OH Jin Young
16:30	33_380	120	33_380 Noble gas strain tuning of halide perovskites by ion beam modification	FIEDLER Holger
16:30	35_497	120	35_497 Achieving Stable Photodiode Characteristics under Ionizing Radiation with a Self-Adaptive Nanostructured Heterojunction CNWs/CdZnTe	PARKHOMENKO Hryhorii
16:30	36_50	120	36_50 TaOx/ZTO Memristor for Neuromorphic Application	TSENG Tseung-Yuen

16:30	38_670	120	38_670 Investigating Piezo-phototronic Coupling Using Solar Energy in Sodium Bismuth Titanate Nanofibers: An Experimental Study Supported by Density Functional Theory	SUMAN SAMANTARAY Koyal
16:30	39_673	120	39_673 Feasibility of p-Doped Molecular Crystals as Transparent Conductive Electrodes via Virtual Screening	NEMATIARAM Tahereh
16:30	40_7	120	40_7 Photovoltage detection of Damon–Eshbach and dipolar edge spin waves of nanomagnets with two-dimensional electron gas system	ALMULHEM Najla
16:30	41_780	120	41_780 Study on silver telluride nanoparticle–based near-infrared photodetectors with plasmonic Au nanoparticles	LEE Won-Yong
16:30	42_790	120	42_790 Broad Dual Emission from Cs ₂ Zr _{1-x} MoxCl ₆ : Enhancing the NIR Emission in Lead-Free Vacancy Ordered Double Perovskites	KUMAR Shubham
16:30	43_827	120	43_827 Exploring Tunable Band Gaps and Spin-Splitting States in 2D Stacked Nanostructures of Transition Metal Dichalcogenides and Topological Insulator	CHENG Cheng-Maw
16:30	45_901	120	45_901 Effect of above and below bandgap excitation on the THz emission from the single crystalline MoS ₂	DHAKAR Neetesh
16:30	46_910	120	46_910 Machine Learning Driven Prediction of Band Alignment Types in 2D Hybrid Perovskites	MAHAL Eti
16:30	47_93	120	47_93 Synthesis of Atomically Thin Yellow Pearl: An Impetus for Nonlinear Optical Effect Assisted Light Scattering Application	MANDAL Nabarun
16:30	48_962	120	48_962 Room-Temperature Growth of Perovskite Single Crystal thin films via Antisolvent-Assisted Confinement for High-Performance Optoelectronic Devices	PIRZADO Azhar Ali Ayaz

Wednesday May 29

S08_Perovskite nanocrystals: Optical properties and applications II

ETOILE A - FIRST FLOOR

08:45	2583	INV	Molecular Engineering of Low dimensional Organic-Inorganic Perovskites with Digital Data Analysis for white broadband emitters	ARCINIEGAS Milena
09:30	414		Inkjet-printed red-emitting flexible LEDs based on sustainable inks of layered tin iodide perovskite	VESCIO Giovanni
09:45	1426		A double compatibilization strategy to boost the performance of p-i-n solar cells based on perovskite deposited in humid ambient air	VANNI Nadir

Wednesday May 29

S09_Nanomaterials for radiation detection

ETOILE A - FIRST FLOOR

10:30	3087	INV	Lead halide perovskite nanocomposites for fast timing detectors	MIHÓKOVÁ E.
11:00	3093		Ultrafast nanocomposite scintillators based on Cd-enhanced CsPbCl ₃ nanocrystals in polymer matrix	ERROI Andrea
11:15	431		On the origin of the light yield enhancement in polymeric composites scintillators loaded with dense nanoparticles	VILLA Irene
11:30	1348		Vacuum-deposited perovskite photodiodes for visible and X-ray detection	MARTÍNEZ GOYENCHE Lucía
11:45	1415		2D metal-halide perovskite-thin polycrystalline films enable bright and fast scintillations.	CALORA Mario

Wednesday May 29

S10_Nanocrystal quantum dots III

ETOILE A - FIRST FLOOR

13:45	3114	INV	Interplay of Emission Polarization Anisotropy and Phonon Directionality in Two-Dimensional Metal Halide Perovskite Microcrystals	KRAHNE Roman
14:15	658		Ultrafast Photodynamics of Quantum Dot Superparticles Unraveled by Transient Absorption Microscopy	CASTRONOVO Pietro
14:30	2629		Tuning the bandgap of nanostructured nanocomposite ZnO based semiconductors using rare earth elements and graphene dopants	Suchea Mirela Petruta
14:45	1861		Compositional engineering of highly emissive and widely tunable I-III-VI based quantum dots (QDs) for photovoltaic applications	SHISHODIA Shubham
15:00	2866		Combining Colloidal Semiconductor Quantum dots with Molecular Photoswitches	HOU Lili
15:15	1031		WO ₃ -based hybrids with different dimensionalities: 0D-colloidal suspensions for improved photochromism or gas detection, 1D-fibers for smart textiles, 2D-coatings on smart windows for solar control, 3D-nanocrystals from 2-photon polymerization printing combining photonic and photochromic properties.	GAUDON Manuel

Thursday May 30

S11_Nanomaterials for photonic and (opto) electronic devices III

ETOILE A - FIRST FLOOR

08:45	3088	INV	Ultrafast Charge-Carrier Dynamics in Ruddlesden-Popper/3D Metal Halide Perovskite Heterostructures	MILOT Rebecca L.
09:15	1630		Second harmonic generation in on-chip silicon nitride waveguides integrated with MoS ₂	Tomazio Nathalia B.
09:30	1820		The improvement of contact resistance in S-DNTT-10-based OTFTs using extra organic semiconductor thin-film	WANG Hao-Bing

Thursday May 30

S12_Perovskite nanocrystals: Optical properties and applications III

ETOILE A - FIRST FLOOR

10:30	3115	INV	Metal halide perovskites: from precursor inks to solar cells	RIZZO Aurora
11:00	197		Properties and spin-optoelectronics based on chiral 2D halide perovskites	CHAO Yu-Chiang
11:15	526		Controlling of Ionic Transport in Halide Perovskite through Alkali Cationic Interfacial Passivation	LEE Ahreum
11:30	1690		Understanding charge transport in methylamine treated CsPbBr ₃ nanocrystals	MANNA Aditi

Thursday May 30

S13_Epitaxial semiconducting nanocrystals: Growth and optical properties

ETOILE A - FIRST FLOOR

13:45	3084	INV	Droplet Epitaxy Quantum Nanostructures for Opto-electronics and Photonics	SANGUINETTI Stefano
14:15	2929		Stability of monodomain III-V crystals over a Si monoatomic step including the formation of antiphase boundaries	GUPTA Divishth
14:30	1337		Tailoring Optical and Structural Properties in CVD Sb ₂ S ₃ films from Amorphous to Crystalline Phases	DICORATO Stefano
14:45	162		Heterogeneous Integration of Compound Semiconductor Materials and Devices by Ion-Cutting Technique	YOU Tiangu
15:15	608		Growth of Semiconducting Strontium Vanadate Thin Films by Magnetron Sputtering for Opto-Electronic Applications	ROUVILLER Axel
15:30	1299		Advanced lithography for 2D devices	THEOFYLAKTOPOULOS Vasileios

Thursday May 30

SP02_Poster session

ETOILE - FIRST FLOOR

	02_2373		Growth and Characterization of Mo-O Nanostructures on the Graphene and SLG for Nanoelectronics and Sensor Applications	BUYUKHARMAN Mustafa
16:30	03_1157	120	03_1157 Novel perspective on electronically triggered terahertz signal based tunable optoelectronic properties of Single Layer Graphene	SHARMA Saloni
16:30	04_1170	120	04_1170 Multifunctional Boolean Logic Operations Based on Bipolar Photoresponse in a Single Perovskite Optoelectronic Device	PAK Yusin
16:30	05_1171	120	05_1171 SnO ₂ Nanoparticles with Various Ligands as an Electron Transport Layer for Enhanced Display Performance	JUNG Hyeyoung
16:30	06_1242	120	06_1242 Chiroptical Synaptic Memristor as Physical Unclonable Function	KIM Hoyeon

16:30	07_1386	120	07_1386 Enhancement of Spectroscopy Detection through Illumination Activation Using an Organic-Metal Hybrid Platform	GAN Rongcheng
16:30	08_1394	120	08_1394 Cutting-edge self-powered broadband photodetector leveraging highly responsive MoS ₂ /WSe ₂ heterostructure.2	SHARMA Anuj
16:30	09_1453	120	09_1453 Solar-blind Schottky photodetector based on MOCVD grown ZnGa ₂ O ₄ of Ni/Au and Ti/Au Asymmetrical Electrode	KHAN Taslim
16:30	10_1491	120	10_1491 Investigation of exciton-plasmon interaction in 2D hybrid nanostructures	MURASKY Dmitry
16:30	11_1518	120	11_1518 Device layout optimization for vacuum deposited perovskite photoconductors	DERENKO Serhii
16:30	12_1556	120	12_1556 Reduced Singlet-Triplet Annihilation for Low Threshold Amplified Spontaneous Emission from a Blue Polyfluorene Electroluminescent Organic Semiconductor	SARDAR Gopa
16:30	14_184	120	14_184 High-Performance Photodetector and Angular-Dependent Random Lasing from Long-Chain Organic Diammonium Sandwiched Hybrid Perovskite Non-Linear Optical Single Crystal	ULAGANATHAN Rajesh Kumar
16:30	15_1901	120	15_1901 Phosphorus-doped germanium nanocrystals for plasmonics	NZANG MINTSA Rosalie
16:30	16_1939	120	16_1939 Enhancement of AlGa _N -based Devices via the Piezo-phototronic Effect-Simulation Aspect	LI Ding
16:30	17_1962	120	17_1962 The application of CoZn nanostructures as anode materials	ZIKIRINA Ainur
16:30	18_202	120	18_202 Tuning the Structural and Luminescent Properties of MIL-53(Al) MOF for Selective Sensing of Volatile Organic Compounds	REHMAN Tanzeel UI
16:30	19_2093	120	19_2093 Fabrication of suspended Ge microbridges based on Ge-on-SOI and effects of metal film deposition	ODASHIMA Ayaka
16:30	20_2104	120	20_2104 Impact of initial surface passivation on wetting properties analysis during III-V/Si epitaxy	PALLIKKARA CHANDRASEKHARAN Sreejith
16:30	21_2152	120	21_2152 Effect of dehydrogenation on the optical properties of amorphous silicon nitride thin films	AMARAL Ana
16:30	22_2203	120	22_2203 Facet-Controlled Bifunctional WO ₃ Photocathodes for High- Performance Photo-assisted Li-O ₂ Battery	WANG Meng

16:30	23_225	120	23_225 Light management for perovskite light-emitting diodes	MOHD YUSOFF Abd Rashid
16:30	24_2423	120	24_2423 NIR GaAsBi Microlasers on AIAs Sacrificial Layer for Application in Reflectance Blood Oximetry	ŠPOKAS Aivaras
16:30	25_2512	120	25_2512 MOVPE-mediated selective growth of high-quality hBN on epigraphene patterns	OTTAPILAKKAL Vishnu
16:30	26_2527	120	26_2527 The inactivation of one-dimensional defect in WSe ₂ by regio-selective reaction of large organic ligand	KIM Taehoon
16:30	27_2528	120	27_2528 Unveiling the Influence of Contact Accumulation on Localized Photocurrent Reduction in Metal-Semiconductor Contact	CHOI Deogkyu
16:30	28_2561	120	28_2561 Ab initio modeling of n-type and p-type doping in hexagonal-diamond silicon	TÚNICA Marc
16:30	29_274	120	29_274 Exploring the Role of Vibrational Entropy in Vacancy Stabilization: A DFT Study for materials employed in Quantum Computers	PATEL Sachin Kamlesh
16:30	30_2771	120	30_2771 A High-Performance Solution-Processed Organic Photodetector for Shortwave Infrared Sensing.	DAI Guohao
16:30	32_2883	120	32_2883 Long Range Surface Plasmon Resonance assisted symmetric structure of Polypyrrole/Au/Polypyrrole thin film based urea sensor	PALIWAL Ayushi
16:30	33_2907	120	33_2907 PbS QD in perovskite host matrix for broadband optical semiconductors.	RIBEIRO Guilherme
16:30	34_2996	120	34_2996 Frequency Selective Surface for Third Harmonic Generation Using Split Ring Resonator at THz Frequencies	SAHU Mitali
16:30	35_3022	120	35_3022 Proton irradiation in 4H-SiC: Nanoscale controls of material properties towards devices applications	SCALISI Melissa Lucia
16:30	37_334	120	37_334 Defect passivation of NiO _x HTLs with hexafluorophosphate salts for efficient and stable inverted perovskite solar cells	YANG Sheng-Hsiung
16:30	39_701	120	39_701 Enhancement Techniques for Alleviating Misalignment Between Aluminum Lines and Substrate Contacts in Sub-20nm DRAM	PARK Dong Sik
16:30	40_704	120	40_704 Detection of bacterial pathogen residues in milk samples from mastitis infected cattle with SERS based biosensor	SHTENBERG Giorgi

16:30	41_744	120	41_744 Tellurium field-effect phototransistors with chemically deposited La-doped HfO ₂ ferroelectric	JEONG Uisik
16:30	42_748	120	42_748 Hydrothermal synthesis and characterization of zinc hydroxide carbonate and its conversion into mesoporous zinc oxide microspheres.	BENHAMOU Lamyae
16:30	43_764	120	43_764 Fabrication of enhanced performance Visible-light photodetector based on Ag/ZnS/p-Si/Ag heterojunction grown by chemical bath deposition	GUPTA Suhaas
16:30	44_774	120	44_774 Versatile dimensional and analytical metrology for semiconductor nanostructures using X-ray fluorescence techniques	HÖNICKE Philipp
16:30	45_775	120	45_775 Applying Visible Light for Photocatalysis in Impurity-Doped Lithium Niobate.	ALANAZI Ahmed

Friday May 31

S14_Nanocrystals and nanoparticles: Synthesis and optical properties

ETOILE A - FIRST FLOOR

08:45	3086	INV	Cation Exchange Reactions and High Pressure as Strategies Towards Design of New Materials	SHEVCHENKO Elena
09:15	2325		Heavily Phosphorus-Doped Silicon Nanocrystals for Infrared Plasmonics: the Role of Nanocrystal Size on the Localized Surface Plasmon Resonance.	KENGNE CHOUMELE Clavel Berclis
09:30	403		Exploring the optical near-field interaction of Mie nanoresonators with a monolayer semiconductor	KATRISIOTI Danae
09:45	868		Trans-Dimensional Plasmonic Phase Change Materials for Active Photonics	LOSURDO Maria

Friday May 31

S15_Synthesis and applications of semiconductor nanowires

ETOILE A - FIRST FLOOR

10:00	1406		Photocatalytic hydrogen generation on silicon nanowires: surface engineering, co-catalyst and water conductivity effects	SIVAKOV Vladimir
10:45	1102		Giant bandgap tuning of InN nanowires by post-growth Hydrogen irradiation for creation of tunable quantum dots	SANTANGELI Francesca
11:00	2829		X-ray correlative study of semiconductor nanowire architectures using synchrotron beam nanoprobe	DOLADO Jaime
11:15	516		2D Fractal Silicon Nanowires for Photonic Applications	LEONARDI Antonio Alessio
11:30	2226		In situ TEM study of finite size effects on the growth rate of GaAs nanowires.	HONG Nam