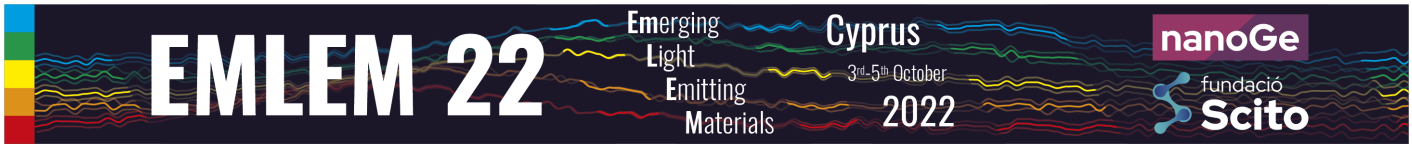


International Conference on Emerging Light Emitting Materials (EMLEM22)

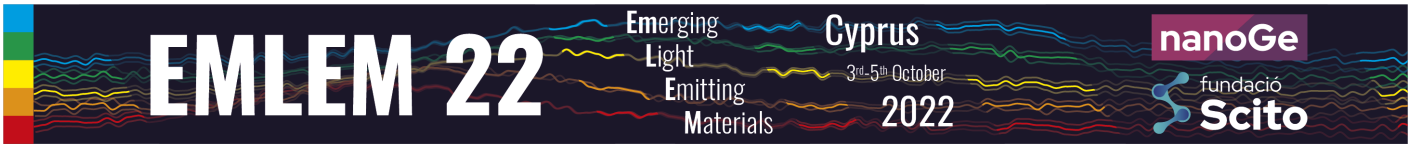
Aspects of Emergent Light Emitters:

Limasol, Cyprus, 2022 October 3rd - 5th
Conference Chairs: Maksym Kovalenko, Maryna Bodnarchuk and Grigorios Itskos

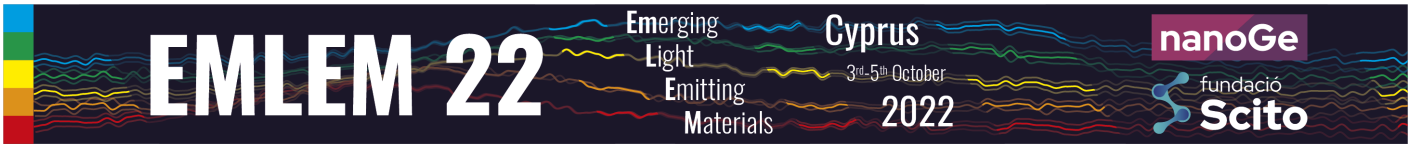
Conference Program

October 3rd - Day 1 (Monday)	
08:15 - 09:45	**Registration**
09:45 - 09:50	**nanoGe Introduction**
09:50 - 10:00	**Opening Chair**
	Session 1A - Synthesis and Chemistry Chair: Loredana Protesescu
10:00 - 10:30 Chemistry-I1	David Norris *(ETH – Swiss Federal Institute of Technology Zurich, Department of Mechanical and Process Engineering)* The Dream of the Perfect Nanocrystal
10:30 - 11:00 Chemistry-I2	Sohee Jeong *(Department of Energy Science, Sungkyunkwan University)* InP tetrapods: Synthesis, surface chemistry, and optical properties
11:00 - 11:30	**Coffee Break**
	Session 1A - Synthesis and Chemistry Chair: Loredana Protesescu
11:30 - 12:00 Chemistry-I1	Ivan Infante *(Nanochemistry, Istituto Italiano di Tecnologia (IIT), via Morego 30, 16163 Genova, Italy.)*, Juliette Zito, Luca De Trizio, Liberato Manna The Emergence of Double Perovskite Nanocrystals from a Computational Standpoint
	Session 1A - Physics and Spectroscopy I Chair: Claudine Katan
12:00 - 12:30 I-I1	jacky even *(Univ Rennes, INSA Rennes, CNRS, Institut FOTON (Fonctions Optiques pour les Technologies de l'informatiON) - UMR 6082, F-35000 Rennes, France)*, bernard hehlen, philippe bourges, benoit rufflé, antoine letoublon, marios zacharias, claudine katan Unusual anharmonicity and pseudospin-phonon dynamics in 3D halide perovskites
12:30 - 13:00 I-I2	Philippe Tamarat *(LP2N, Univ. Bordeaux, IOGS &CNRS, Talence (France))* Band-Edge Exciton Fine Structure and charge-carrier interactions in Lead-Halide Perovskite Nanocrystals
13:00 - 13:30 I-I3	Michal Baranowski, Victor Guilloux, Paulina Plochocka, Riu SU, Laurent Legrand, Thierry Barisien, frederick Bernardot, Qihua Xiong, Christophe Testelin, Maria Chamarro *(2Sorbonne Université, CNRS-UMR 7588, Institut des NanoSciences de Paris, INSP)* EXCITON PROPERTIES of CSPBCL3 HALIDE PEROVSKITES
13:30 - 15:00	**Lunch Break**
	Session 1B1 Chair: Ivan Infante
15:00 - 15:15 1B1-O1	Raúl Ivan Sánchez- Alarcón *(Instituto de Ciencia de los Materiales)*, Omar Eduardo Solís- Luna, Cristina Momblona, Teresa S. Ripollés, Rafael Abargues, Pablo P. Boix, Setatira Gorji, Guillermo Muñoz, Vladimir Chirvony, Juan P. Martínez- Pastor, Hamid Pashaeiadl Bottom-up synthesis of orange- red emitting two dimensional 2- thiophene ethyl ammonium tin(II) halide perovskite microcrystals
15:15 - 15:30 1B1-O2	Marios Zacharias *(Université Rennes, INSA Rennes, CNRS, Institut FOTON)*, Jacky Even Electron-phonon physics in cubic halide perovskites: The role of disorder
15:30 - 15:45 1B1-O3	Pingping JIANG *(Université Rennes, INSA Rennes, CNRS, Institut FOTON)*, Boubacar TRAORE, Mikael KEPENEKIAN, George VOLONAKIS, Claudine KATAN, Laurent PEDESSEAU, Jacky EVEN Influence of surface termination on the structural and electronic properties at the Pb-free perovskite/charge transport material interfaces
15:45 - 16:00 1B1-O4	Viktoriia Morad, Andriy Stelmakh *(Laboratory of Inorganic Chemistry, Department of Chemistry and Applied Biosciences, ETH Zürich, CH-8093 Zürich, Switzerland)*, Mariia Svyrydenko, Leon Feld, Marcel Aebli, Andrij Baumketner, Maksym Kovalenko Structurally Tailored Zwitterionic Phospholipid Capping Ligands for Lead Halide Perovskite Nanocrystals
16:00 - 16:15 1B1-O5	Andres F. Gualdrón-Reyes *(Institute of Advanced Materials (INAM), Universitat Jaume I)*, Sofia Masi, Iván Mora-Seró Recent strategies to suppress the iodide deficiency in APbI3 (A = Cs+, FA+) perovskite nanocrystals: ligand and doping engineering
16:15 - 16:30 1B1-O6	Vladimir Chirvony *(Instituto de Ciencia de los Materiales, Universidad de Valencia, Valencia 46980, Spain)*, Isaac Suárez, Jesus Sánchez-Diaz, Rafael Sánchez, Jesús Rodríguez-Romero, Iván Mora-Seró, Juan Martínez-Pastor Spectrally Stable High-Q and Low Threshold Random Lasing in Polycrystalline Films of FASnI3 Halide Perovskite
	Session 1B2 Chair: Francesco Di Stasio
15:00 - 15:15 1B2-O1	Dongxu Zhu, Houman Jalali, Francesco Di Stasio, Mirko Prato, Iurii Ivanov, Giorgio Divitini, Ivan Infante, Liberato Manna, Luca De Trizio *(Istituto Italiano di Tecnologia,)* ZnCl2 Mediated Synthesis of InAs Nanocrystals with Aminoarsine
15:15 - 15:30 1B2-O2	Giannis Antoniou, Yuan Peisen, Loukas Koutsokeras, Stavros Athanasopoulos, Daniele Fazzi, Themis Prodromakis, Julianna Panidi, Dimitra G. Georgiadou, Panagiotis E. Keivanidis *(Device Technology and Chemical Physics Lab, Department of Mechanical Engineering and Materials Science and Engineering, Cyprus University of Technology)* Fusion of Triplet Emissive States as a Tool to Drive Photocurrent Generation in Vertically-configured Organic Photodetectors
15:30 - 15:45 1B2-O3	Federico Montanarella *(Seaborouh B.V.)*, Atul Sontakke, Vasilii Khanin, Anne Berends, Valerio Favale, Mohamed Tachikirt, Mike Krames, Marie Anne van de Haar Nano-Engineered Phosphors for (Micro)LEDs

15:45 - 16:00 1B2-O4	Karolis Kazlauskas *(Institute of Photonics and Nanotechnology, Vilnius University, Lithuania)*, Dovydas Banevičius, Gediminas Kreiza, Saulius Juršėnas, Francesco Rodella, Peter Strohriegl High Triplet Energy Hosts for Blue Thermally Activated Delayed Fluorescence OLEDs
16:00 - 16:15 1B2-O5	Carmelita Rodà *(Physics and Chemistry of Nanostructures, Department of Chemistry, Ghent University, Ghent, Belgium)*, Pieter Geiregat, Alessio Di Giacomo, Iwan Moreels, Zeger Hens Area-Independent Biexciton Oscillator Strength in Colloidal Nanoplatelets
16:15 - 16:30 1B2-O6	Rafael Sánchez *(The Research Institute of Advanced Materials at the University Jaume I)* Understanding the photo-electrochemical mechanisms that determine the performance of light-emitting devices based on low-cost semiconductors
17:00 - 18:00	**Workshop "Art of Scientific Publishing"**
20:00 - 23:00	**Social Dinner**



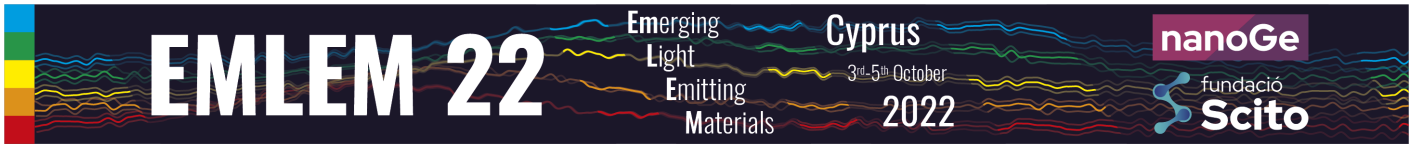
October 4th - Day 2 (Tuesday)	
09:55 - 10:00	**nanoGe Introduction**
	Session 2A - Physics and Spectroscopy II Chair: Jacky Even
10:00 - 10:30 II-I1	William Tisdale *(MIT - Massachusetts Institute of Technology)* Persistent Enhancement of Exciton Diffusivity in CsPbBr3 Nanocrystal Solids
10:30 - 11:00 II-I2	Tan NGUYEN *(Univ Rennes, ENSCR, INSA Rennes, CNRS, ISCR (Institut des Sciences Chimiques de Rennes) - UMR 6226, F-35000 Rennes, France)*, Chenglian ZHU, Simon BOEHME, Anastasiia MOSKALENKO, Dmitry DIRIN, Maryna BODNARCHUK, Gabriele RAINO, Maksym KOVALENKO, Claudine KATAN, Jacky EVEN Many-body physics of emission from excitonic complexes in cesium lead halide perovskite quantum dots
11:00 - 11:30	**Coffee Break**
	Session 2A - Physics and Spectroscopy II Chair: Jacky Even
11:30 - 12:00 II-I1	Aikaterini Argyrou, Konstantinos Brintakis, Athanasia Kostopoulou, Emmanuel Stratakis *(Foundation for Research and Technology Hellas (FORTH), Institute of Electronic Structure & Laser (IESL), P.O. Box 1385, Heraklion 70013, Crete, Greece)* Low-temperature synthesis of all-inorganic metal halide perovskites for gas sensing and energy storage applications
	Session 2A - Lasers and Collective Phenomena Chair: William Tisdale
12:00 - 12:30 Phenomena-I1	Victor Klimov *(Chemistry Division, Los Alamos National Laboratory, Los Alamos, USA)* Realization of a Colloidal Quantum Dot Laser Diode
12:30 - 13:00 Phenomena-I2	Etsuki Kobiyama, Gabriele Rainò, Ihor Cherniukh, Yuliia Berezovska, Maryna Bodnarchuk, Rainer Mahrt, Maksym Kovalenko, Thilo Stöferle *(IBM Research Europe — Zurich, Säumerstrasse, 4, Rüschlikon, Switzerland)* Superfluorescence in Lead Halide Perovskite Nanocrystal Assemblies and Giant Nanocrystals
13:00 - 13:30 Phenomena-I3	Ivo Tanghe, Margarita Samoli, Isabella Wagner, Servet Ataberk Cayan, Kai Chen, Justin Hodgkiss, Iwan Moreels, Dries Van Thourhout, Zeger Hens, Pieter Geiregat *(NoLIMITS Center for Non-Linear Microscopy and Spectroscopy, Belgium)* Stimulated Emission using Weakly Confined Quantum Dots
13:30 - 15:00	**Lunch Break**
	Session 2B1 Chair: Thilo Stöferle
15:00 - 15:15 2B1-O1	Ihor Cherniukh *(Department of Chemistry and Applied Biosciences, Institute of Inorganic Chemistry, ETH Zürich, Zürich, Switzerland)*, Gabriele Rainò, Taras Sekh, Thilo Stöferle, Max Burian, Alex Travesset, Modestos Athanasiou, Andreas Manoli, Rohit John, Yevhen Shynkarenko, Denys Naumenko, Heinz Amenitsch, Grigorios Itskos, Rolf Erni, Rainer Mahrt, Maryna Bodnarchuk, Maksym Kovalenko Superfluorescent Multicomponent Nanocrystal Superlattices from Lead Halide Perovskite Nanocubes
15:15 - 15:30 2B1-O2	Susan Rigter *(Center for Nanophotonics, AMOLF, Amsterdam, The Netherlands)*, Julia van der Burgt, Peter Schall, Erik Garnett Single particle optical characterization of silica nanospheres containing lead halide perovskite emitters
15:30 - 15:45 2B1-O3	Hamid Pashaei Adl *(Instituto de Ciencia de Materiales ICMUV, Universidad de Valencia)*, Setatira Gorji, Guillermo Muñoz Matutano, Andrés F. Gualdrón-Reyes, Isaac Suárez, Vladimir S. Chirvony, Iván Mora-Seró, Juan P. Martínez-Pastor The thermal decoherence of superradiance in halide perovskite supercrystals
15:45 - 16:00 2B1-O4	Simon Boehme *(Institute of Inorganic Chemistry, Department of Chemistry and Applied Biosciences, ETH Zürich, 8093 Zürich, Switzerland)*, Maryna Bodnarchuk, Max Burian, Federica Bertolotti, Ihor Cherniukh, Caterina Bernasconi, Chenglian Zhu, Heinz Amenitsch, Denys Naumenko, Hordii Andrusiv, Nazar Semkiv, Rohit Abraham John, Alan Baldwin, Krzystof Galkowski, Norberto Masciocchi, Samuel Stranks, Gabriele Rainò, Antonietta Guagliardi, Maksym Kovalenko Strongly Confined CsPbBr3 Perovskite Quantum Dots as Quantum Emitters and Building Blocks for Highly Ordered Rhombic Superlattices
16:00 - 16:15 2B1-O5	Chenglian Zhu *(Institute of Inorganic Chemistry, Department of Chemistry and Applied Biosciences, ETH Zürich, CH-8093 Zürich, Switzerland)*, Malwina Marczak, Leon Feld, Simon C. Boehme, Caterina Bernasconi, Anastasiia Moskalenko, Ihor Cherniukh, Dmitry Dirin, Maryna I. Bodnarchuk, Maksym V. Kovalenko, Gabriele Raino Highly pure single photon emission from single perovskite QDs
16:15 - 16:30 2B1-O6	Simon Kahmann *(Cavendish Laboratory University of Cambridge)* Luminescence of 2D Perovskites – on Trapping and Self-Trapping
16:30 - 16:45 2B1-O7	Dmitry Dirin *(Department of Chemistry and Applied Biosciences, ETHZ)*, Anna Vivani, Marios Zacharias, Ihor Cherniukh, Sergii Yakunin, Federica Bertolotti, Marcel Aebli, Richard Schaller, Norberto Masciocchi, Antonietta Guagliardi, Laurent Pedesseau, Jacky Even, Maksym Kovalenko, Maryna Bodnarchuk Intrinsic formamidinium tin iodide nanocrystals by suppressing the Sn(IV) impurities
17:00 - 19:00	**Poster Session**



October 5th - Day 3 (Wednesday)	
09:55 - 10:00	**nanoGe Introduction**
	Session 3A - LEDs and Device Applications I Chair: Grigorios Itskos
10:00 - 10:30 I-I1	Stylianos Choulis *(Molecular Electronics and Photonics Research Unit, Department of Mechanical Engineering and Materials Science and Engineering, Cyprus University of Technology, Cyprus)* Device Engineering Concepts for High Performance Printed Photovoltaics
10:30 - 11:00 I-I2	Loredana Protesescu *(Zernike Institute for Advanced Materials, University of Groningen, The Netherlands)* Chemical design for metal halide perovskites nanostructures
11:00 - 11:30	**Coffee Break**
	Session 3A - LEDs and Device Applications I Chair: Grigorios Itskos
11:30 - 12:00 I-I1	Hernán Míguez *(Multifunctional Optical Materials group, Institute of Materials Science of Seville, Consejo Superior de Investigaciones Científicas (CSIC) – Universidad de Sevilla, Spain)* Photophysics of perovskite quantum dots coupled to optical cavities
	Session 3A - LEDs and Device Applications II Chair: Hernán Míguez
12:00 - 12:30 II-I1	Ido Hadar *(Institute of Chemistry and the Center for Nanoscience and Nanotechnology, The Hebrew University of Jerusalem)* White Light Emission from Low Dimensionality Halide Perovskites
12:30 - 13:00 II-I2	Omar Mohammed *(King Abdullah University of Science and Technology (KAUST))* High-performance Silver and Copper Halide X-ray Imaging Scintillators
13:00 - 13:30 II-I3	Lakshminarayana Polavarapu *(CINBIO, Universidade de Vigo, Materials Chemistry and Physics Group, Department of Physical Chemistry, Campus Universitario Lagoas, Marcosende, 36310 Vigo, Spain)* Controlling the Light Emission from Lead Halide Perovskite Nanocrystals by Composition and Self-assembly
13:30 - 15:00	**Lunch Break**
	Session 3B1 Chair: Omar F. Mohammed
15:00 - 15:15 3B1-O1	Modestos Athanasiou *(Experimental Condensed Matter Physics Laboratory, Department of Physics, University of Cyprus, 1678 Nicosia, Cyprus)*, Andreas Manoli, Paris Papagiorgis, Kyriacos Georgiou, Yulia Berezovska, Andreas Othonos, Maryna Bodnarchuk, Maksym Kovalenko, Grigorios Itksos Flexible, Free Standing Polymer Membranes Sensitized by CsPbX3 Nanocrystals as Gain Media for Low Threshold, Multi-Color Light Amplification
15:15 - 15:30 3B1-O2	Juan P. Martínez Pastor *(Institut de Ciencia dels Materials (ICMUV), Universitat de València, c Catedratic Beltran 2, 46980 Paterna, Valencia, Spain)*, Hamid Pashaei Adl, Juan Navarro Arenas, Jesús Sánchez-Díaz, Rafael S. Sánchez, Andrés F. Gualdrón Reyes, Juan Bisquert, Iván Mora Seró, Isaac Suárez Photon Recycling in planar waveguides integrating low-dimensional perovskite semiconductors
15:30 - 15:45 3B1-O3	Vincent R. F. Schröder *(Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, Hahn-Meitner-Platz 1, 14109 Berlin, Germany.)*, Felix Hermerschmidt, Hampus Näsström, Florian Mathies, Eva L. Unger, Emil J. W. List-Kratochvil Combinatorial colour printing of metal halide perovskites
15:45 - 16:00 3B1-O4	Saar Shaek *(Department of Materials Science and Engineering, Technion – Israel Institute of Technology, Haifa, 3200003, Israel)*, Yehonadav Bekenstein Why the Case of Self Trapped Excitons is so Different for Bi doping and Sb doping of Lead-Free Halide Double Perovskites
16:00 - 16:15 3B1-O5	Zhongcheng Yuan *(Department of Physics, Chemistry and Biology (IFM), Linköping University, Linköping, SE-58183, Sweden)*, Zhangjun Hu, Ingemar Persson, Chuanfei Wang, Xianjie Liu, Chaoyang Kuang, Weidong Xu, Sai Bai, Feng Gao Interface-assisted cesium-formamidinium cation exchange enables high-performance perovskite light-emitting diodes with tuneable near-infrared emissions
	Session 3B2 Chair: Sotirios Christodoulou
15:00 - 15:15 3B2-O1	Setatira Gorji, Hamid Pashaei Adl, Ivan Alarcon, Isaac Suárez, Pablo F. Betancur, Vladimir Chyrvony, María Cristina Momblona, Teresa Ripolles Sanchis, Rafael Abargues, Pablo P. Boix, Juan Martínez Pastor, Guillermo Muñoz Matutano *(UMDO. Instituto de Ciencia de Materiales, P.O. Box 22085, 4607, Valencia, Spain.)* Strong coupling between TEA2SnI4 perovskite emission and open access fiber cavities at room temperature
15:15 - 15:30 3B2-O2	Roman Krahne *(Italian Institute of Technology (IIT))*, Vincenzo Caligiuri, Bruno Zappone, Antonio De Luca, Aniket Patra Epsilon-Near-Zero Cavities for Light-Matter Interaction and Emission Tuning
15:30 - 15:45 3B2-O3	Jari Leemans *(Ghent University (BE))*, Vladimir Pejovic, Epimitheas Georgitzikis, Matthias Minjauw, Abu Bakar Siddik, Yuhao Deng, Yinghuan Kuang, Gunther Roelkens, Christophe Detavernier, Itai Lieberman, Pawel Malinowski, David Cheyns, Zeger Hens Colloidal III-V Quantum Dot Photodiodes for Short-Wave Infrared Photodetection
15:45 - 16:00 3B2-O4	Manuela De Franco, Houman Bahmani Jalali, Dongxu Zhu, Luca De Trizio, Mirko Prato, Liberato Manna, Francesco Di stasio *(Photonic Nanomaterials group, Istituto Italiano di Tecnologia, Via Morego 30, 16163 Genova, Italy)* Near-Infrared Light-emitting diodes based on RoHS complaint colloidal semiconductor quantum dots
16:00 - 16:15 3B2-O5	Felix Hermerschmidt *(Humboldt-Universität zu Berlin, Institut für Physik, Institut für Chemie, IRIS Adlershof, Zum Großen Windkanal 2, 12489 Berlin, Germany)*, Vincent R.F. Schröder, Theodoros Dimopoulos, Eva L. Unger, Emil J.W. List-Kratochvil Printed Hybrid and ITO-Free Optoelectronic Devices
16:15 - 16:30	**Closing**

Poster Contribution

008	Dominic Guggisberg *(Laboratory of Inorganic Chemistry, Department of Chemistry and Applied Biosciences, ETH Zürich, CH-8093 Zürich, Switzerland)*, Sergii Yakunin, Christoph Neff, Marcel Aebli, Detlef Günther, Maksym Kovalenko Non-Hydrolytic Sol-Gel Reactions for Thin CsPbX3 Nanocrystal Coatings
011	sarika kumari *(EURECAT, Centre Tecnològic de Catalunya, Parc Científic i de la Innovació TecnoCampus, Mataró)* Self-assembled molecule PDINO as electron-transporting layer for CdSe@ZnS Quantum Dot Light Emitting Diodes
017	Ales Vlk *(Laboratory of Thin Films, Institute of Physics, ASCR, Cukrovarnická 10, 162 00 Prague, Czech Republic)*, Nada Mrkyvkova, Vladimir Held, Peter Nadazdy, Eva Majkova, Matej Jergel, Martin Ledinsky, Antonin Fejfar, Peter Siffalovic Combined in-situ PL and GIWAXS study of halide perovskite formation
032	Giannis Antoniou *(Device Technology and Chemical Physics Laboratory, Department of Mechanical Engineering and Materials Science and Engineering, Cyprus University of Technology,)*, Panagiotis Keivanidis Up-converted Luminescence of 9,10 diphenyl-Anthracene Solutions Sensitized by a Doubly-photoexcited Metallorganic Complex: Conciliating Spectroscopic Measurements with Photokinetic Modelling
036	Daria Markina *(ITMO University, St. Petersburg, Russia)*, Anatoly Pushkarev, Sergey Makarov Lead halide perovskite nanolasers as a new platform for sensitive hydrogen halide vapor detection
045	Rodolfo Canet-Albiach *(Instituto de Ciencia de Materiales, Universidad de Valencia)*, Marie Krecmarova, José José Bosch Bailach, Andrés F. Gualdrón-Reyes, Jesús Rodríguez-Romero, Setatira Gorji, Hamid Pashaei-Adl, Iván Mora-Seró, Juan P. Martínez Pastor, Juan Francisco Sánchez-Royo, Guillermo Muñoz Matutano Revealing Giant Exciton Fine-Structure Splitting in 2D Perovskites using van der Waals Passivation
047	Michael Hengge *(Helmholtz-Zentrum Berlin für Materialien und Energie,)*, Paul Hänsch, Daniel Ehjeij, Frank S. Benneckendorf, Jan Freudenberg, Uwe H.F. Bunz, Klaus Müllen, Emil J.W. List-Kratochvil, Felix Hermerschmidt Novel Bisazide for Universal Crosslinking of Polymer Light Emitting Materials
068	Nathan Rafisman *(Department of Materials Science and Engineering, Technion – Israel Institute of Technology, Haifa 3200003, Israel)*, Yehonadav Bekenstein, Lev Chuntonov, Arghyadeep Basu Investigating the Role of Thiocyanate on the Surface of CsPbBr3 Nanocubes.
070	Zheming Liu *(Dipartimento di Chimica e Chimica Industriale, Università degli Studi di Genova, Via Dodecaneso 31, 16146 Genova, Italy)*, Lutfan Sinatra, Marat Lutfullin, Yurii P. Ivanov, Giorgio Divitini, Luca De Trizio, Liberato Manna 100 Nanometer Sized CsPbBr3/m-SiO2 Composites Prepared via Molten Salts Synthesis are Optimal Green Phosphors for LCD Display Devices
072	Fedros Galatopoulos *(Molecular Electronics and Photonics Research Unit, Department of Mechanical Engineering and Materials Science and Engineering, Cyprus University of Technology, Limassol, 3603, Cyprus)*, Paris Papagiorgis, Alexandra Chrusou, Caterina Bernasconi, Constantinos Christodoulou, Maryna Bodnarchuk, Maksym Kovalenko, Grigorios Itskos, Stelios Choulis Processing Parameters for Colloidal Perovskite Nanocrystals Solar Cells
073	Paris Papagiorgis *(Experimental Condensed Matter Physics Laboratory, Department of Physics, University of Cyprus, 1678 Nicosia, Cyprus)*, Marios Sergides, Andreas Manoli, Modestos Athanasiou, Caterina Bernasconi, Fedros Galatopoullos, Constantinos Nicolaides, Epameinondas Leontidis, Theodossis Trypiniotis, Stelios Choulis, Maryna I Bodnarchuk, Maksym V. Kovalenko, Andreas Othonos, Grigorios Itskos The effect of post synthetic ligand washing on the optoelectronic properties of inorganic and hybrid lead halide perovskite nanocrystals.
074	Marios Sergides *(Laboratory of Ultrafast Science, Department of Physics, University of Cyprus)*, Modestos Athanasiou, Pedro Alves, Charlotte Eling, Nicolas Laurand, Grigorios Itskos, Andreas Othonos Radiative energy transfer via evanescent field optical binding of colloidal quantum dot microspheres
076	Mehrdad Faraji *(Istituto Italiano di Tecnologia, via Morego 30, 16163 Genova, Italy)*, Alexander Schleusener, Roman Krahne Simple Room Temperature Method for the Formation of Two-Dimensional Layered Lead Halide Perovskite Heterostructure



International Conference on Emerging Light Emitting Materials (EMLEM22)

Materials for next generation LEDs and lasers:

Limasol, Cyprus, 2022 October 3rd - 5th
Conference Chairs: Maksym Kovalenko, Maryna Bodnarchuk and Grigorios Itskos

Conference Program

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08:15 - 09:45	**Registration**
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10:00 - 10:30 Chemistry-I1	David Norris *(ETH – Swiss Federal Institute of Technology Zurich, Department of Mechanical and Process Engineering)* The Dream of the Perfect Nanocrystal
10:30 - 11:00 Chemistry-I2	Sohee Jeong *(Department of Energy Science, Sungkyunkwan University)* InP tetrapods: Synthesis, surface chemistry, and optical properties
11:00 - 11:30	**Coffee Break**
	Session 1A - Synthesis and Chemistry Chair: Loredana Protesescu
11:30 - 12:00 Chemistry-I1	Ivan Infante *(Nanochemistry, Istituto Italiano di Tecnologia (IIT), via Morego 30, 16163 Genova, Italy.)*, Juliette Zito, Luca De Trizio, Liberato Manna The Emergence of Double Perovskite Nanocrystals from a Computational Standpoint
	Session 1A - Physics and Spectroscopy I Chair: Claudine Katan
12:00 - 12:30 I-I1	jacky even *(Univ Rennes, INSA Rennes, CNRS, Institut FOTON (Fonctions Optiques pour les Technologies de l'informatiON) - UMR 6082, F-35000 Rennes, France)*, bernard hehlen, philippe bourges, benoit rufflé, antoine letoublon, marios zacharias, claudine katan Unusual anharmonicity and pseudospin-phonon dynamics in 3D halide perovskites
12:30 - 13:00 I-I2	Philippe Tamarat *(LP2N, Univ. Bordeaux, IOGS &CNRS, Talence (France))* Band-Edge Exciton Fine Structure and charge-carrier interactions in Lead-Halide Perovskite Nanocrystals
13:00 - 13:30 I-I3	Michal Baranowski, Victor Guilloux, Paulina Plochocka, Riu SU, Laurent Legrand, Thierry Barisien, frederick Bernardot, Qihua Xiong, Christophe Testelin, Maria Chamarro *(2Sorbonne Université, CNRS-UMR 7588, Institut des NanoSciences de Paris, INSP)* EXCITON PROPERTIES of CSPBCL3 HALIDE PEROVSKITES
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	Session 1B1 Chair: Ivan Infante
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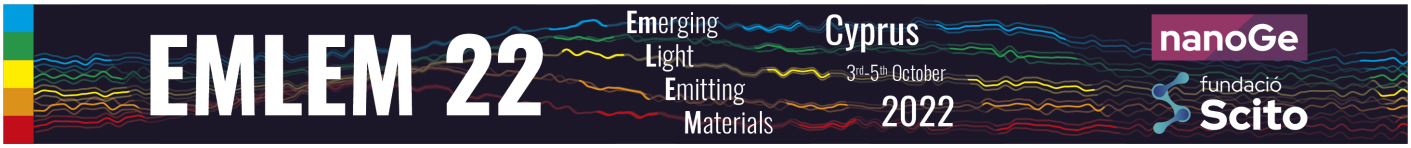
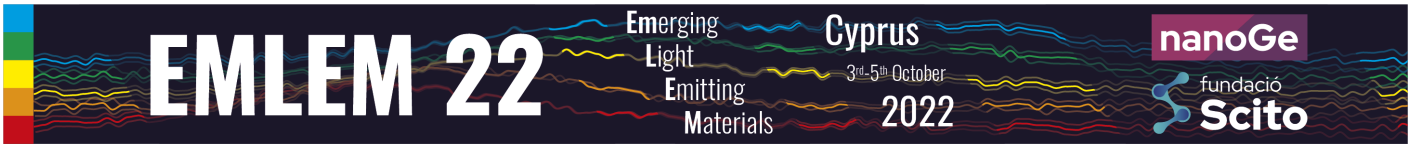
15:15 - 15:30 1B1-O2	Marios Zacharias *(Université Rennes, INSA Rennes, CNRS, Institut FOTON)*, Jacky Even Electron-phonon physics in cubic halide perovskites: The role of disorder
15:30 - 15:45 1B1-O3	Pingping JIANG *(Université Rennes, INSA Rennes, CNRS, Institut FOTON)*, Boubacar TRAORE, Mikael KEPENEKIAN, George VOLONAKIS, Claudine KATAN, Laurent PEDESSEAU, Jacky EVEN Influence of surface termination on the structural and electronic properties at the Pb-free perovskite/charge transport material interfaces
15:45 - 16:00 1B1-O4	Viktoriia Morad, Andriy Stelmakh *(Laboratory of Inorganic Chemistry, Department of Chemistry and Applied Biosciences, ETH Zürich, CH-8093 Zürich, Switzerland)*, Mariia Svyrydenko, Leon Feld, Marcel Aebli, Andrij Baumketner, Maksym Kovalenko Structurally Tailored Zwitterionic Phospholipid Capping Ligands for Lead Halide Perovskite Nanocrystals
16:00 - 16:15 1B1-O5	Andres F. Gualdrón-Reyes *(Institute of Advanced Materials (INAM), Universitat Jaume I)*, Sofia Masi, Iván Mora-Seró Recent strategies to suppress the iodide deficiency in APbI3 (A = Cs+, FA+) perovskite nanocrystals: ligand and doping engineering
16:15 - 16:30 1B1-O6	Vladimir Chirvony *(Instituto de Ciencia de los Materiales, Universidad de Valencia, Valencia 46980, Spain)*, Isaac Suárez, Jesus Sánchez-Diaz, Rafael Sánchez, Jesús Rodríguez-Romero, Iván Mora-Seró, Juan Martínez-Pastor Spectrally Stable High-Q and Low Threshold Random Lasing in Polycrystalline Films of FASnI3 Halide Perovskite
	Session 1B2 Chair: Francesco Di Stasio
15:00 - 15:15 1B2-O1	Dongxu Zhu, Houman Jalali, Francesco Di Stasio, Mirko Prato, Iurii Ivanov, Giorgio Divitini, Ivan Infante, Liberato Manna, Luca De Trizio *(Istituto Italiano di Tecnologia,)* ZnCl2 Mediated Synthesis of InAs Nanocrystals with Aminoarsine
15:15 - 15:30 1B2-O2	Giannis Antoniou, Yuan Peisen, Loukas Koutsokeras, Stavros Athanasopoulos, Daniele Fazzi, Themis Prodromakis, Julianna Panidi, Dimitra G. Georgiadou, Panagiotis E. Keivanidis *(Device Technology and Chemical Physics Lab, Department of Mechanical Engineering and Materials Science and Engineering, Cyprus University of Technology)* Fusion of Triplet Emissive States as a Tool to Drive Photocurrent Generation in Vertically-configured Organic Photodetectors
15:30 - 15:45 1B2-O3	Federico Montanarella *(Seaborouh B.V.)*, Atul Sontakke, Vasilii Khanin, Anne Berends, Valerio Favale, Mohamed Tachikirt, Mike Krames, Marie Anne van de Haar Nano-Engineered Phosphors for (Micro)LEDs

15:45 - 16:00 1B2-O4	Karolis Kazlauskas *(Institute of Photonics and Nanotechnology, Vilnius University, Lithuania)*, Dovydas Banevičius, Gediminas Kreiza, Saulius Juršėnas, Francesco Rodella, Peter Strohriegl High Triplet Energy Hosts for Blue Thermally Activated Delayed Fluorescence OLEDs
16:00 - 16:15 1B2-O5	Carmelita Rodà *(Physics and Chemistry of Nanostructures, Department of Chemistry, Ghent University, Ghent, Belgium)*, Pieter Geiregat, Alessio Di Giacomo, Iwan Moreels, Zeger Hens Area-Independent Biexciton Oscillator Strength in Colloidal Nanoplatelets
16:15 - 16:30 1B2-O6	Rafael Sánchez *(The Research Institute of Advanced Materials at the University Jaume I)* Understanding the photo-electrochemical mechanisms that determine the performance of light-emitting devices based on low-cost semiconductors
17:00 - 18:00	**Workshop "Art of Scientific Publishing"**
20:00 - 23:00	**Social Dinner**



October 4th - Day 2 (Tuesday)	
09:55 - 10:00	**nanoGe Introduction**
	Session 2A - Physics and Spectroscopy II Chair: Jacky Even
10:00 - 10:30 II-I1	William Tisdale *(MIT - Massachusetts Institute of Technology)* Persistent Enhancement of Exciton Diffusivity in CsPbBr3 Nanocrystal Solids
10:30 - 11:00 II-I2	Tan NGUYEN *(Univ Rennes, ENSCR, INSA Rennes, CNRS, ISCR (Institut des Sciences Chimiques de Rennes) - UMR 6226, F-35000 Rennes, France)*, Chenglian ZHU, Simon BOEHME, Anastasiia MOSKALENKO, Dmitry DIRIN, Maryna BODNARCHUK, Gabriele RAINO, Maksym KOVALENKO, Claudine KATAN, Jacky EVEN Many-body physics of emission from excitonic complexes in cesium lead halide perovskite quantum dots
11:00 - 11:30	**Coffee Break**
	Session 2A - Physics and Spectroscopy II Chair: Jacky Even
11:30 - 12:00 II-I1	Aikaterini Argyrou, Konstantinos Brintakis, Athanasia Kostopoulou, Emmanuel Stratakis *(Foundation for Research and Technology Hellas (FORTH), Institute of Electronic Structure & Laser (IESL), P.O. Box 1385, Heraklion 70013, Crete, Greece)* Low-temperature synthesis of all-inorganic metal halide perovskites for gas sensing and energy storage applications
	Session 2A - Lasers and Collective Phenomena Chair: William Tisdale
12:00 - 12:30 Phenomena-I1	Victor Klimov *(Chemistry Division, Los Alamos National Laboratory, Los Alamos, USA)* Realization of a Colloidal Quantum Dot Laser Diode
12:30 - 13:00 Phenomena-I2	Etsuki Kobiyama, Gabriele Rainò, Ihor Cherniukh, Yuliia Berezovska, Maryna Bodnarchuk, Rainer Mahrt, Maksym Kovalenko, Thilo Stöferle *(IBM Research Europe — Zurich, Säumerstrasse, 4, Rüschlikon, Switzerland)* Superfluorescence in Lead Halide Perovskite Nanocrystal Assemblies and Giant Nanocrystals
13:00 - 13:30 Phenomena-I3	Ivo Tanghe, Margarita Samoli, Isabella Wagner, Servet Ataberk Cayan, Kai Chen, Justin Hodgkiss, Iwan Moreels, Dries Van Thourhout, Zeger Hens, Pieter Geiregat *(NoLIMITS Center for Non-Linear Microscopy and Spectroscopy, Belgium)* Stimulated Emission using Weakly Confined Quantum Dots
13:30 - 15:00	**Lunch Break**
	Session 2B1 Chair: Thilo Stöferle
15:00 - 15:15 2B1-O1	Ihor Cherniukh *(Department of Chemistry and Applied Biosciences, Institute of Inorganic Chemistry, ETH Zürich, Zürich, Switzerland)*, Gabriele Rainò, Taras Sekh, Thilo Stöferle, Max Burian, Alex Travesset, Modestos Athanasiou, Andreas Manoli, Rohit John, Yevhen Shynkarenko, Denys Naumenko, Heinz Amenitsch, Grigorios Itskos, Rolf Erni, Rainer Mahrt, Maryna Bodnarchuk, Maksym Kovalenko Superfluorescent Multicomponent Nanocrystal Superlattices from Lead Halide Perovskite Nanocubes
15:15 - 15:30 2B1-O2	Susan Rigter *(Center for Nanophotonics, AMOLF, Amsterdam, The Netherlands)*, Julia van der Burgt, Peter Schall, Erik Garnett Single particle optical characterization of silica nanospheres containing lead halide perovskite emitters
15:30 - 15:45 2B1-O3	Hamid Pashaei Adl *(Instituto de Ciencia de Materiales ICMUV, Universidad de Valencia)*, Setatira Gorji, Guillermo Muñoz Matutano, Andrés F. Gualdrón-Reyes, Isaac Suárez, Vladimir S. Chirvony, Iván Mora-Seró, Juan P. Martínez-Pastor The thermal decoherence of superradiance in halide perovskite supercrystals
15:45 - 16:00 2B1-O4	Simon Boehme *(Institute of Inorganic Chemistry, Department of Chemistry and Applied Biosciences, ETH Zürich, 8093 Zürich, Switzerland)*, Maryna Bodnarchuk, Max Burian, Federica Bertolotti, Ihor Cherniukh, Caterina Bernasconi, Chenglian Zhu, Heinz Amenitsch, Denys Naumenko, Hordii Andrusiv, Nazar Semkiv, Rohit Abraham John, Alan Baldwin, Krzystof Galkowski, Norberto Masciocchi, Samuel Stranks, Gabriele Rainò, Antonietta Guagliardi, Maksym Kovalenko Strongly Confined CsPbBr3 Perovskite Quantum Dots as Quantum Emitters and Building Blocks for Highly Ordered Rhombic Superlattices
16:00 - 16:15 2B1-O5	Chenglian Zhu *(Institute of Inorganic Chemistry, Department of Chemistry and Applied Biosciences, ETH Zürich, CH-8093 Zürich, Switzerland)*, Malwina Marczak, Leon Feld, Simon C. Boehme, Caterina Bernasconi, Anastasiia Moskalenko, Ihor Cherniukh, Dmitry Dirin, Maryna I. Bodnarchuk, Maksym V. Kovalenko, Gabriele Raino Highly pure single photon emission from single perovskite QDs
16:15 - 16:30 2B1-O6	Simon Kahmann *(Cavendish Laboratory University of Cambridge)* Luminescence of 2D Perovskites – on Trapping and Self-Trapping
16:30 - 16:45 2B1-O7	Dmitry Dirin *(Department of Chemistry and Applied Biosciences, ETHZ)*, Anna Vivani, Marios Zacharias, Ihor Cherniukh, Sergii Yakunin, Federica Bertolotti, Marcel Aebli, Richard Schaller, Norberto Masciocchi, Antonietta Guagliardi, Laurent Pedesseau, Jacky Even, Maksym Kovalenko, Maryna Bodnarchuk Intrinsic formamidinium tin iodide nanocrystals by suppressing the Sn(IV) impurities
17:00 - 19:00	**Poster Session**



October 5th - Day 3 (Wednesday)	
09:55 - 10:00	**nanoGe Introduction**
	Session 3A - LEDs and Device Applications I Chair: Grigorios Itskos
10:00 - 10:30 I-I1	Stylianos Choulis *(Molecular Electronics and Photonics Research Unit, Department of Mechanical Engineering and Materials Science and Engineering, Cyprus University of Technology, Cyprus)* Device Engineering Concepts for High Performance Printed Photovoltaics
10:30 - 11:00 I-I2	Loredana Protesescu *(Zernike Institute for Advanced Materials, University of Groningen, The Netherlands)* Chemical design for metal halide perovskites nanostructures
11:00 - 11:30	**Coffee Break**
	Session 3A - LEDs and Device Applications I Chair: Grigorios Itskos
11:30 - 12:00 I-I1	Hernán Míguez *(Multifunctional Optical Materials group, Institute of Materials Science of Seville, Consejo Superior de Investigaciones Científicas (CSIC) – Universidad de Sevilla, Spain)* Photophysics of perovskite quantum dots coupled to optical cavities
	Session 3A - LEDs and Device Applications II Chair: Hernán Míguez
12:00 - 12:30 II-I1	Ido Hadar *(Institute of Chemistry and the Center for Nanoscience and Nanotechnology, The Hebrew University of Jerusalem)* White Light Emission from Low Dimensionality Halide Perovskites
12:30 - 13:00 II-I2	Omar Mohammed *(King Abdullah University of Science and Technology (KAUST))* High-performance Silver and Copper Halide X-ray Imaging Scintillators
13:00 - 13:30 II-I3	Lakshminarayana Polavarapu *(CINBIO, Universidade de Vigo, Materials Chemistry and Physics Group, Department of Physical Chemistry, Campus Universitario Lagoas, Marcosende, 36310 Vigo, Spain)* Controlling the Light Emission from Lead Halide Perovskite Nanocrystals by Composition and Self-assembly
13:30 - 15:00	**Lunch Break**
	Session 3B1 Chair: Omar F. Mohammed
15:00 - 15:15 3B1-O1	Modestos Athanasiou *(Experimental Condensed Matter Physics Laboratory, Department of Physics, University of Cyprus, 1678 Nicosia, Cyprus)*, Andreas Manoli, Paris Papagiorgis, Kyriacos Georgiou, Yulia Berezovska, Andreas Othonos, Maryna Bodnarchuk, Maksym Kovalenko, Grigorios Itksos Flexible, Free Standing Polymer Membranes Sensitized by CsPbX3 Nanocrystals as Gain Media for Low Threshold, Multi-Color Light Amplification
15:15 - 15:30 3B1-O2	Juan P. Martínez Pastor *(Institut de Ciencia dels Materials (ICMUV), Universitat de València, c Catedratic Beltran 2, 46980 Paterna, Valencia, Spain)*, Hamid Pashaei Adl, Juan Navarro Arenas, Jesús Sánchez-Díaz, Rafael S. Sánchez, Andrés F. Gualdrón Reyes, Juan Bisquert, Iván Mora Seró, Isaac Suárez Photon Recycling in planar waveguides integrating low-dimensional perovskite semiconductors
15:30 - 15:45 3B1-O3	Vincent R. F. Schröder *(Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, Hahn-Meitner-Platz 1, 14109 Berlin, Germany.)*, Felix Hermerschmidt, Hampus Näsström, Florian Mathies, Eva L. Unger, Emil J. W. List-Kratochvil Combinatorial colour printing of metal halide perovskites
15:45 - 16:00 3B1-O4	Saar Shaek *(Department of Materials Science and Engineering, Technion – Israel Institute of Technology, Haifa, 3200003, Israel)*, Yehonadav Bekenstein Why the Case of Self Trapped Excitons is so Different for Bi doping and Sb doping of Lead-Free Halide Double Perovskites
16:00 - 16:15 3B1-O5	Zhongcheng Yuan *(Department of Physics, Chemistry and Biology (IFM), Linköping University, Linköping, SE-58183, Sweden)*, Zhangjun Hu, Ingemar Persson, Chuanfei Wang, Xianjie Liu, Chaoyang Kuang, Weidong Xu, Sai Bai, Feng Gao Interface-assisted cesium-formamidinium cation exchange enables high-performance perovskite light-emitting diodes with tuneable near-infrared emissions
	Session 3B2 Chair: Sotirios Christodoulou
15:00 - 15:15 3B2-O1	Setatira Gorji, Hamid Pashaei Adl, Ivan Alarcon, Isaac Suárez, Pablo F. Betancur, Vladimir Chyrvony, María Cristina Momblona, Teresa Ripolles Sanchis, Rafael Abargues, Pablo P. Boix, Juan Martínez Pastor, Guillermo Muñoz Matutano *(UMDO. Instituto de Ciencia de Materiales, P.O. Box 22085, 4607, Valencia, Spain.)* Strong coupling between TEA2SnI4 perovskite emission and open access fiber cavities at room temperature
15:15 - 15:30 3B2-O2	Roman Krahne *(Italian Institute of Technology (IIT))*, Vincenzo Caligiuri, Bruno Zappone, Antonio De Luca, Aniket Patra Epsilon-Near-Zero Cavities for Light-Matter Interaction and Emission Tuning
15:30 - 15:45 3B2-O3	Jari Leemans *(Ghent University (BE))*, Vladimir Pejovic, Epimitheas Georgitzikis, Matthias Minjauw, Abu Bakar Siddik, Yuhao Deng, Yinghuan Kuang, Gunther Roelkens, Christophe Detavernier, Itai Lieberman, Pawel Malinowski, David Cheyns, Zeger Hens Colloidal III-V Quantum Dot Photodiodes for Short-Wave Infrared Photodetection
15:45 - 16:00 3B2-O4	Manuela De Franco, Houman Bahmani Jalali, Dongxu Zhu, Luca De Trizio, Mirko Prato, Liberato Manna, Francesco Di stasio *(Photonic Nanomaterials group, Istituto Italiano di Tecnologia, Via Morego 30, 16163 Genova, Italy)* Near-Infrared Light-emitting diodes based on RoHS complaint colloidal semiconductor quantum dots
16:00 - 16:15 3B2-O5	Felix Hermerschmidt *(Humboldt-Universität zu Berlin, Institut für Physik, Institut für Chemie, IRIS Adlershof, Zum Großen Windkanal 2, 12489 Berlin, Germany)*, Vincent R.F. Schröder, Theodoros Dimopoulos, Eva L. Unger, Emil J.W. List-Kratochvil Printed Hybrid and ITO-Free Optoelectronic Devices
16:15 - 16:30	**Closing**

Poster Contribution

012	Taras Sekh, Ihor Cherniukh, Gabriele Rainò, Chenglian Zhu *(Department of Chemistry and Applied Biosciences, Institute of Inorganic Chemistry, ETH Zürich, Zürich, Switzerland)*, Yevhen Shynkarenko, Rohit Abraham John, Olivia Ashton, Etsuki Kobiyama, Rainer Mahrt, Thilo Stöferle, Rolf Erni, Maryna Bodnarchuk, Maksym Kovalenko Co-assembly of Lead Halide Perovskite Nanocrystals and Dielectric Nanodiscs into Multicomponent Functional Superlattices
013	Mariia Svyrydenko *(Laboratory of Inorganic Chemistry, Department of Chemistry and Applied Biosciences, ETH Zürich, Vladimir Prelog Weg 1, CH-8093 Zürich, Switzerland)*, Viktoriia Morad, Andriy Stelmakh, Leon Feld, Marcel Aebli, Andrij Baumketner, Maksym V. Kovalenko Tail Engineering of Zwitterionic Phospholipid Ligands for Improving Colloidal Stability of Lead Halide Perovskite Nanocrystals
065	Guillermo Muñoz Matutano *(Instituto de Ciencia de Materiales Universidad de Valencia (ICMUV))*, Marie Krecmarova, Setatira Gorji, Alejandro Molina, María C. Asensio, Andrés F. Gualdrón-Reyes, Jesús Rodríguez-Romero, Hamid Pashaei-Adl, Rodolfo Canet-Albiach, Luca Schio, Massimo Tormen, Luca Floreano, Iván Mora-Seró, Juan Martínez Pastor, Juan Francisco Sánchez-Royo Donor-acceptor discrete optical emission in 2D perovskites
066	Shovon Chatterjee *(Department of Chemistry, Indian Institute of Technology Kanpur)*, Arghya Sen, Pratik Sen Green Synthesis of Pure Inorganic 3D and Ruddlesden-Popper Quasi 2D Cesium Lead Halide Perovskite Nanocrystals in Menthol-Based Deep Eutectic Solvents
069	Sergey M. Pozov, Apostolos Ioakeimidis *(Molecular Electronics and Photonics Research Unit, Department of Mechanical Engineering and Materials Science and Engineering, Cyprus University of Technology, Limassol, 3603, Cyprus)*, Modestos Athanasiou, Caterina Bernasconi, Maryna I. Bodnarchuk, Maksym V. Kovalenko, Gregorios Itskos, Stelios A. Choulis The effect of Hole Injection Layer on the Performance of Perovskite Nanocrystal Light Emitting Diodes
075	Shir Yudco *(The Hebrew University of Jerusalem, The Institute of Chemistry, Casali Center of Applied Chemistry)* Controlling the device functionality by solvent engineering, solar cell versus light emitting diode
077	Eleftheria Charalampous *(Experimental Condensed Matter Physics Laboratory, Department of Physics, University of Cyprus)*, Paris Papagiorgis, Nefeli Polycarpou, Sotirios Christodoulou, Grigorios Itskos Bulk Heterojunctions of Cesium Lead Halide Nanocrystals with Fullerene Derivatives for Light Harvesting Applications
078	Aliki Souzou *(Experimental Condensed Matter Physics Laboratory, Department of Physics, University of Cyprus)*, Modestos Athanasiou, Andreas Manoli, Maryna Bodnarchuk, Maksym Kovalenko, Chrysafis Andreou, Grigorios Itskos Plasmon-Exciton Interactions in Bilayers of Core-Shell Au-SiO2 Nanoparticles and FAPbI3 Perovskite Nanocrystals.
079	Alexis Villanueva-Antolí *(Institute of Advanced Materials (INAM), Universitat Jaume I, Av. Sos Baynat, s/n, 12071 Castelló, Spain)*, Rafael Sanchez, Iván Mora-Seró A Study about the Effect of Perovskite Nanocrystals (CsPbBr3) Purity on the Stability of Light-Emitting Diodes Perfromance
080	Andreas Manoli *(Experimental Condensed Matter Physics Laboratory, Department of Physics, University of Cyprus, 1678 Nicosia, Cyprus)*, Paris Papagiorgis, Maryna Bodnarchuk, Yuliia Berezovska, Maksym Kovalenko, Grigorios Itskos Influence of Ligands on the Optical Properties of CsPb(BrI)3 NC Films
081	Bora Kim *(Department of Energy Science, Sungkyunkwan University, Suwon, South Korea)*, Eunhye Cho, Sunghu Kim, Young-Shin Park, Sohee Jeong Shape-Tuned Exciton Dynamics in InP Quantum Dots