

**Bienvenue à tous ! / Welcome to everyone!**

Nous sommes fiers de vous présenter une conférence organisée par et pour les étudiants, comprenant une programmation riche et diversifiée qui représente les six axes majeurs de recherche du CQMF. Cette édition 2019 du colloque étudiant comprendra 3 conférences plénières, 27 présentations orales, et près de 120 présentations par affiche. Merci pour ce taux de participation exceptionnel ! Nous nous réjouissons de vous accueillir de partout au Québec afin d'échanger sur les matériaux fonctionnels, et nous vous souhaitons une journée stimulante !

*We are proud to present a conference organized by and for students, with a rich and diverse program that represents the six main QCAM research themes. This 2019 edition of the student symposium will feature 3 plenary lectures, 27 oral presentations, and nearly 120 poster presentations. Thank you for this exceptional participation rate! We are thrilled to welcome you from all over Quebec to discuss functional materials, and we wish you a stimulating day!*

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# CONFÉRENCES PLÉNIÈRES / *PLENARY LECTURES*

<b>Prof. James Wuest</b>	<b>Prof. Dongling Ma</b>	<b>Prof. Matthew Harrington</b>
		
<p data-bbox="90 648 545 753"><b><i>Putting Molecules in their Place: Learning How to Control Order in Crystals and Other Materials</i></b></p> <p data-bbox="90 793 545 1644">Crystallization is commonplace but deeply mysterious. Its mechanism remains poorly understood, and the structures formed by crystallizing new compounds defy prediction. In general, the rules governing molecular organization in ordered materials remain unclear, and structures and properties can only be determined by experimental study. Learning how order can be controlled is a prerequisite for making useful new materials by design. A promising approach is to use the strategy of modular construction, which involves building complex structures from simple molecular modules that associate and thereby place their neighbors in predetermined positions. Examples will be presented to show how modular construction can be used to build robust porous materials, ordered covalently-bonded materials analogous to diamond and graphite, and materials designed for use in batteries, sensors, OLEDs, solar cells, and other devices. The approach taken in this work is multidisciplinary and will cover aspects of organic chemistry, inorganic chemistry, physical chemistry, and other areas.</p>	<p data-bbox="626 648 1000 753"><b><i>Designing Nanohybrids for Energy, Environmental and Biomedical Applications</i></b></p> <p data-bbox="578 793 1049 1948">With unique physical and chemical properties, and high potential for many important applications, nanomaterials have attracted extensive attention in the past two decades. For instance, due to their unique, size- and shape-tunable surface plasmon resonance, plasmonic nanostructures have recently been explored for enhancing the efficiency of solar cells and photocatalysis via improved light scattering, strong near field effect and/or hot electron injection. In another vein, near-infrared (NIR) absorbing and emitting semiconductor nanocrystals (also known as quantum dots) hold high potential in bioimaging for disease detection due to its high sensitivity at the subcellular level and low cost of related imaging facilities. Combination of different nanomaterials into a single architecture can lead to improved properties/performance or, even better, multifunctional nanoplatforms. In this talk, I will present some of our recent work on the rational design and realization of nanohybrid materials as well as their applications in solar fuel, photocatalysis, biomedicine, etc. For instance, I will give an example on the combination of plasmonic nanoparticles with two-dimensional semiconductor catalysts, showing largely enhanced photocatalytic activity. Another example is about the preparation of multifunctional nanoplatforms compose of multiple superparamagnetic nanoparticles and NIR quantum dots in single particles, which can serve as bimodal imaging probes and bimodal hyperthermia agents. Rational design in order to maximize benefits is highlighted for all these nanohybrids.</p>	<p data-bbox="1130 648 1487 753"><b><i>Biological Fabrication of Hierarchically Structured Soft Matter</i></b></p> <p data-bbox="1073 793 1536 1738">A number of living organisms, such as mussels and spiders, rapidly fabricate hierarchically structured polymeric fibers with excellent material properties (e.g. high toughness, self-healing). These materials exhibit bottom-up supramolecular self-assembly from biomolecular building blocks via rapid “fluid-to-fiber” transformation. Employing a cross-disciplinary approach, our group has harnessed advanced material characterization techniques, including confocal Raman spectroscopy, X-ray diffraction and focused ion beam scanning electron spectroscopy (FIB-SEM), as well as traditional biochemical approaches to investigate the fabrication of a number of bio-fibers, including the mussel byssus, velvet worm slime fibers and mistletoe viscin fibers. Elucidation of the physical and chemical forces driving assembly of such materials provides design principles for inspiring “green” polymer processing methods, as well as for fabrication of materials for biomedical applications (e.g. tissue scaffolds, surgical adhesives). Our comparative study has identified several novel assembly mechanisms, which may have relevance in these realms. In this talk, I will highlight recent results from our investigations.</p>

# HORAIRE / SCHEDULE

8:00 – 8:50	Inscription et café / <i>Registration and coffee</i> (Agora)		
8:50 – 9:00	Mot de bienvenue / <i>Welcome note</i> (Agora)		
9:00 – 9:50	Conférence plénière / <i>Plenary Lecture</i> (Agora)		
	<p><b>Prof. James Wuest</b>  <i>Putting Molecules in their Place:  Learning How to Control Order in Crystals and Other Materials</i></p>		
9:50 – 10:40	Conférence plénière / <i>Plenary Lecture</i> (Agora)		
	<p><b>Prof. Matthew Harrington</b>  <i>Biological Fabrication of Hierarchically Structured Soft Matter</i></p>		
10:40 – 11:00	Pause café / <i>Coffee break</i>		
11:00 – 11:20	<b>BIOMEDICAL</b> (Room S1-131)	<b>NANOSCIENCE</b> (Agora)	<b>GREEN CHEMISTRY</b> (Room S1-139)
	<b>Kiselva Mariia</b> <i>Developing a 3D-printed Pluronic F127-alginate scaffold for localized drug delivery to the cervix</i>	<b>Platnich Casey</b> <i>Automated Solid-Phase Synthesis of DNA Nanotubes</i>	<b>Fan Mengyang</b> <i>Hierarchical design of Bi nanodendrites on porous Pb honeycomb electrode: step towards more efficient CO<sub>2</sub> reduction</i>
	<b>Jeyachandra Dhanalakshmi</b> <i>The effect of microporosity on the bioactivity of scaffolds for bone regeneration</i>	<b>Maurizio Steven</b> <i>The Sensitization of Terbium in Core-Shell Upconverting Nanoparticles for Intrinsic Time-Tunable Luminescence</i>	<b>Samard Lucille</b> <i>Caractérisation d'une technologie plasma DBD pour récupérer les métaux précieux contenus dans les effluents médicaux</i>
	<b>Fakih Hassan</b> <i>Minimalist Design of a Stimuli-Responsive Spherical Nucleic Acid for Conditional Delivery of Oligonucleotide Therapeutics</i>	<b>Mandl Gabrielle</b> <i>Luminescence Dynamics of Thulium in Upconverting Nanoparticles and Their Applications in NIR-Responsive Hydrogels</i>	<b>Sayadi Sabrina</b> <i>Nouveaux adsorbants hybrides organiques-inorganiques pour la séquestration des métaux lourds des eaux usées</i>
	<b>Wu Junqi</b> <i>Uptake in microspheres from crystalline nanocellulose: modelling diffusion and kinetics</i>	<b>Sauze Stéphanie</b> <i>Synthesis of nanomaterials based on Graphene-Mesoporous Germanium</i>	<b>Rupp Mira</b> <i>Long-lived photocatalytic hydrogen evolution using a heteroleptic Ru(ii) bis-terpyridine complex as photosensitizer</i>
	12:20 – 13:20	Dîner / <i>Lunch</i> (Agora)	

13:20 – 14:20	<b>Session d'affiche #1 / Poster session #1 (Agora)</b>		
14:20 – 15:10	<b>Conférence plénière / Plenary Lecture (Agora)</b> <b>Prof. Dongling Ma</b> <i>Designing Nanohybrids for Energy, Environmental and Biomedical Applications</i>		
	<b>POLYMER SCIENCE</b> (Room S1-131)	<b>ENERGY</b> (Agora)	<b>SELF-ASSEMBLY</b> (Room S1-139)
15:10 – 15:30	<b>Desnoes Eric</b> <i>New vanillin bio-based epoxy monomers as bisphenol a substitute for epoxy thermosetting resin</i>	<b>Verdier Nina</b> <i>Melt-Processing of Electrodes for Li-ion Battery Application</i>	<b>Lachance-Brais Christophe</b> <i>DNA/small-molecule hybrid as supramolecular hydrogels</i>
15:30 – 15:50	<b>Andrade-Gagnon Brandon</b> <i>Development of Amphiphilic Spirocyclic Polyacetals as Drug-Delivery Vehicles</i>	<b>Rynne Olivier</b> <i>Optimisation d'électrodes de batteries Li-ion sans fluor par la méthodologie de plans d'expériences</i>	<b>Luo Xin</b> <i>The assemble, grow, lift-off (aglo) strategy to construct complex pre-designed gold nanostructures in solution</i>
15:50 – 16:10	<b>Pause café / Coffee break</b>		
16:10 – 16:30	<b>Shetty Chaitra</b> <i>Dual Location Dual Stimuli-responsive Polyplexes for Nucleic Acid Delivery</i>	<b>Chen Jiyun</b> <i>La, Ni-based metal oxides as bifunctional catalysts for the oxygen reduction and evolution reactions in alkaline medium</i>	<b>Hu Xiaolei</b> <i>Imine-based acid-degradable block copolymer nanoassemblies for enhanced drug delivery</i>
16:30 – 16:50	<b>Quezada Victor</b> <i>A New Family of Isostructural Rare Earth Metal-Organic Frameworks synthesized from a Tetratopic Linker</i>	<b>Dupuy Arthur</b> <i>Graphene-Mesoporous Germanium Nanocomposite as On-chip Negative Electrode for Advanced Energy Storage Systems</i>	<b>Sakaya Aya</b> <i>Fluorescence Mapping of Redox Activity in Supported Lipid Bilayers</i>
16:50 – 17:10	<b>Yin Lu</b> <i>A Novel Auxetic-Like Actuator in Side-Chain Liquid Crystal Elastomer Based on Styrene-Butadiene-Styrene Triblock Copolymer Bearing Azobenzene Mesogens</i>	<b>Leal William</b> <i>Conversion of Electrochemically Deposited Carbonates to Perovskites with Retention of Crystal Morphology</i>	<b>Preetha Genesh Navathej</b> <i>Solvent-Dependent Selective Self-Assembly on Au(111)</i>
17:10 – 18:10	<b>Session d'affiche #2 / Poster session #2 (Agora)</b>		
18:10 – 18:30	<b>Remise de prix et mot de la fin / Awards and closing remarks (Agora)</b>		



	<b>Session d'affiches #1 / Poster session #1</b>		<b>Session d'affiches #2 / Poster session #2</b>
<b>N-1</b>	<b>Arnaud Laramée</b> <i>Quantification of Molecular Orientation in Polymeric Nanomaterials Using Raman Spectroscopy</i>	<b>N-13</b>	<b>Josée Maurais</b> <i>Reflection-Absorption infrared spectroscopy is not only a vibrational spectroscopy: the case of thin amorphous solid water (ASW) films</i>
<b>N-2</b>	<b>Aurelie Lacroix</b> <i>Fate of DNA Nanostructures in Biological Conditions</i>	<b>N-14</b>	<b>Joseph Ricardo-Noordberg</b> <i>Morphological Control of Cuprous Oxide Semiconductors Electrochemically Deposited onto a Zinc Oxide Nanowire Array and Their Use in Photocatalysis</i>
<b>N-3</b>	<b>Adrien Schlachter</b> <i>Exciton Dynamics in Metal-Organic Frameworks</i>	<b>N-15</b>	<b>Marie-Claude Fournier</b> <i>SPS of ZrB<sub>2</sub>-based Synthesized Coating</i>
<b>N-4</b>	<b>Chandra Sekhar Bhojaraju</b> <i>Characterisation of Nano Modified Cement Hydration Kinetics</i>	<b>N-16</b>	<b>Marilyne Bélanger-Bouliga</b> <i>Optically-Active Gold Nanoparticles Decorated with Perylene Diimides as Novel Imaging Agents</i>
<b>N-5</b>	<b>Daniel Saliba</b> <i>Minimalist Strategies for Size Defined DNA Nanostructures</i>	<b>N-17</b>	<b>Md. Shahidul Islam</b> <i>Preparation Of High Quality Textile Filaments Made Of Natural Cellulose Cross-Linked By Carbon Nanotube</i>
<b>N-6</b>	<b>Elham Vazirinasab</b> <i>Volumetric Superhydrophobic Nanocomposite Using Diatomaceous Earth Particles</i>	<b>N-18</b>	<b>Tayline V. de Medeiros</b> <i>Gold-Carbon Dots Hybrid Nanoconstructs with Enhanced Optical Properties</i>
<b>N-7</b>	<b>Fanny Casteignau</b> <i>Raman Scattering-Based Nanoprobes Using Single-Wall Carbon Nanohorns to Substitute Carbon Nanotubes</i>	<b>N-19</b>	<b>Thi Hong Diep Nguyen</b> <i>Metal Nanoparticles Based on Hydrophilic Main-Chain N-Heterocyclic Carbene-Containing Metallopolymers</i>
<b>N-8</b>	<b>Faranak Barandehfard</b> , <i>Effect of Feedstock Molar Ratio and Reactor Pressure on Synthesis of Aluminium Nitride Nano-Powder Using RF Induction Plasma Technology</i>	<b>N-20</b>	<b>Thierno Mamoudou Diallo</b> <i>Hybrid Epitaxy Technique for the growth of high quality AlInAs layers on InP Substrates</i>
<b>N-9</b>	<b>Florence Victoria</b> <i>Investigating Residual Chirality in Carbon Dots</i>	<b>N-21</b>	<b>Thierno Mamoudou Diallo</b> <i>Thermally Induced formation of etch pits on Ge surfaces under graphene growth conditions in CVD</i>
<b>N-10</b>	<b>Hakim Grib</b> <i>IR laser-induced selective area fonctionnalization of digital photocorrosion GaAs/AlGaAs biosensor</i>	<b>N-22</b>	<b>Vincent Thibault</b> <i>From Analog to Digital: Lowering Integration Time of Sers-Based Analysis to Gather More Information</i>
<b>N-11</b>	<b>Ismael Abu-Baker</b> <i>Ethanol-Mediated Assembly of Tobacco Mosaic Virus Coat Protein</i>	<b>N-23</b>	<b>Xining Chen</b> <i>Investigation of shear-induced physical and chemical transformations of Fe microparticles in hydrocarbon- and fluorocarbon-based magnetorheological fluids</i>
<b>N-12</b>	<b>Jathavan Asohan</b> <i>Use of 3D Cell Culture for DNA Nanostructure Based Drug Delivery</i>	<b>N-24</b>	<b>Anoir Hamdi</b> <i>Study of the early growth stages by MOCVD of non-polar a-gan(11-20) on R-Al<sub>2</sub>O<sub>3</sub> substrate (1-102)</i>
<b>B-1</b>	<b>Ahmed Saad</b> <i>Biomimetic Surfaces for Enhancing Epithelial Sealing</i>	<b>B-11</b>	<b>Laurianne Gravel Tatta</b> <i>Phytoglycogen Nanoparticles: Natural Materials for Pulmonary Delivery of Therapeutics?</i>
<b>B-2</b>	<b>Alexander Lee Prinzen</b> <i>Amplified Self-Immolative Release of Functional Molecules Through the Hybridization Chain Reaction</i>	<b>B-12</b>	<b>Mahmoud Mohamed Omar</b> <i>Synthesis and Radiolabelling of Nanoparticles Using the Radioisotope 89ZR for in Vivo Biodistribution Studies with PET Imaging</i>
<b>B-3</b>	<b>Alicia McTaggart</b> <i>Threonine crystallisation: Oriented Attachment with a Twist</i>	<b>B-13</b>	<b>Nan Jia</b> <i>Microfluidic Synthesis of Chitosan Membranes for Controlled Release of Mesoporous Silica Particles by pH Triggering</i>
<b>B-4</b>	<b>Amanpreet Singh</b> <i>High-Contrast Imaging of bacteria by Au-Ga nanoshell formation on its surface through Galvanic Displacement Reaction</i>	<b>B-14</b>	<b>Philippe Blain</b> <i>Couplage D'une SPR Portable avec un Bioréacteur</i>
<b>B-5</b>	<b>AmirReza R. Esfahani</b> <i>Colorimetric sensor for determination of nitrate ions using gold nanoparticles (AuNPs)</i>	<b>B-15</b>	<b>Samira Ravanbakhsh</b> <i>Preliminary Results on Tantalum-Tungsten Coatings for Improving X-RAY Visibility of Thin Cardiovascular Stents</i>
<b>B-6</b>	<b>Felix Saraci</b> <i>Rare-Earth Metal-Organic Frameworks (Re-MOFs) as Fluorescent-Based Chemical Sensors for Applications in the Detection of Antibiotic Contaminants in Water</i>	<b>B-16</b>	<b>Théophraste Lescot</b> <i>Développement D'une Méthodologie Permettant L'optimisation de Forme D'implant de Curiothérapie pour L'œil par Fabrication Additive</i>
<b>B-7</b>	<b>Gabrielle Raïche-Marcoux</b> <i>Développement D'une Plateforme Moléculaire de Dosage de Mucines Oculaires pour L'amélioration de la Médicamentation en Ophtalmologie</i>	<b>B-17</b>	<b>Ying-Hsuan Liu</b> <i>Biacenaphthylene-based Molecules: A Novel Building Block for n-type Organic Field-Effect Transistor (OFET)</i>
<b>B-8</b>	<b>Ho Ying Huang</b> <i>Photoactive Nanofiber with Lanthanide-Doped Nanoparticles for Wound Healing</i>	<b>B-18</b>	<b>Zuchong Yang</b> <i>Improving Sensing Performance of Organic Field-Effect Transistor-Based Gas Sensor by Polymer Dilution</i>
<b>B-9</b>	<b>Jun-Ray Macairan</b> <i>Carbon Dots as Bioimaging Probes with Multi-Sensing Capabilities</i>	<b>G-7</b>	<b>Pedro R. Donnarumma</b> <i>Rare-Earth Based FCU Metal-Organic Framework for Aqueous Contaminants Degradation</i>
<b>B-10</b>	<b>Kurtis Champion</b> <i>Designing Regenerative Biomaterials for Vascular Implants</i>	<b>G-8</b>	<b>Seyed Hamid Safiabadi-Tali</b> <i>Microfluidic Paper-Based Analytical Devices: Fabrication Methods and Emerging Applications</i>
<b>G-1</b>	<b>Alexia Macina</b> <i>Sustainable Biodiesel Through Heterogeneous Catalysis</i>	<b>G-9</b>	<b>Violette Mohring</b> <i>Hornification Prevention on Cellulose Filament Drying</i>
<b>G-2</b>	<b>Francisco Yarur Villanueva</b> <i>Metal Oxide-Carbon Dot Nanohybrids for Photocatalysis of Organic Reactions</i>	<b>G-10</b>	<b>Xin Liu</b> <i>"Green" Cu Doped Zn-In-Se Quantum Dots for Sustainable Liquid Luminescent Solar Concentrators</i>
<b>G-3</b>	<b>Hannah Wiebe</b> <i>Dye Removal Using Hairy Nanocellulose</i>	<b>G-11</b>	<b>Yuting Lei</b> <i>Electrochemical Characterization of Graphene-Like Materials Obtained by Electrochemical Exfoliation of Graphite</i>
<b>G-4</b>	<b>Karen Villegas Domínguez</b> <i>Molecular Model of Zeolitic Imidazolate Framework-8 (ZIF-8)'s Structure to Simulate Adsorption of Greenhouse Gases</i>	<b>G-12</b>	<b>Zujhar Singh</b> <i>Cuprophilia: Cu(I)/Cu(II) Photosensitizer/Catalyst Photosystem for Efficient Water Oxidation</i>

<b>G-5</b>	<b>Martin Sichinga</b> <i>Functionalization and Reaction Kinetics of Cellulose Fibres for Textile Applications</i>	<b>E-15</b>	<b>Lingling Gong</b> <i>Usable Increases to Power Output From Soil-Based Microbial Fuel Cells Under Dynamic Temperature Variations</i>
<b>G-6</b>	<b>Oyejide Damilola Oyewunmi</b> <i>Paper-Based Analytical Devices: A Tool to Monitor the Hardness Level of Water</i>	<b>E-16</b>	<b>Loïc Tanguy</b> <i>Etude avec une approche « bottom-up » de l'interface donneur-accepteur des cellules solaires organiques</i>
<b>E-1</b>	<b>Alex Brice Pougoué Mbeunmi</b> <i>CBE Growth Of GaAs on Reuse Substrate PGe</i>	<b>E-17</b>	<b>Marion Maffre</b> <i>Processes in Water Oxidation more complex than Theory of the Double Layer, in Water-in-salt Electrolyte</i>
<b>E-2</b>	<b>Alexandre Heintz</b> <i>Synthesis of Double Layer Mesoporous Germanium for Photovoltaic Applications</i>	<b>E-18</b>	<b>Minghui Hao</b> <i>Water Oxidation at Fractal Ni Surfaces</i>
<b>E-3</b>	<b>Chengzhang Yao</b> <i>Dual Electrochromic and Electrofluorochromic Role of a Red Emissive Fluorophore</i>	<b>E-19</b>	<b>Mojgan Hatami</b> <i>Localized Detection of Lithium Ion with Square Wave Voltammetry Using Pt/Ga Probe in Battery Materials</i>
<b>E-4</b>	<b>Elsa Briqueler</b> <i>Etude D'une Photobatterie Organique</i>	<b>E-20</b>	<b>Romarc Beugré</b> <i>Study of electrocatalytic activity of nickel oxy (hydroxide) samples synthesized by bipolar electrodeposition</i>
<b>E-5</b>	<b>Elsa Briqueler</b> <i>Procédé de Fabrication D'électrodes Composites Avec Liant Hydrosoluble Pour Batteries Liions A Electrolyte Aqueux</i>	<b>E-21</b>	<b>Sara Taslimi Taleghani</b> <i>Simulation of Electrochemical Etching in Semiconductores Using Secondary Current Distribution Model</i>
<b>E-6</b>	<b>Étienne Yvenou</b> <i>Electrodeposited <math>Ti_2</math> on Graphite Substrate as Wettable Cathode for <math>CO_2</math>-Free Aluminum Production</i>	<b>E-22</b>	<b>Sébastien Néron</b> <i>Nouveaux Matériaux Organiques Redox Pour Le Stockage De L'énergie</i>
<b>E-7</b>	<b>Gabriel Marineau Plante</b> <i>Oligomères De Platine(II) Polyène Contenant Des Ligands Bis(Dikétopyrrolopyrrole) Possédant Une Faible Bande Interdite</i>	<b>E-23</b>	<b>Shuaishuai Yuan</b> <i>The Delay of Polaron Formation in Metal Peroxides</i>
<b>E-8</b>	<b>Jeremy Dawkins</b> <i>Observing the Concentration Gradient in Li-Ion Battery Positive Electrodes Using X-Ray Fluorescence</i>	<b>E-24</b>	<b>Simon Génereux</b> <i>Impact De L'eau Sur Les Propriétés Des Électrolytes Superconcentrés</i>
<b>E-9</b>	<b>Jialin Meng</b> <i>Dual Template Preparation and Characterization of Periodic Mesoscale Perovskite</i>	<b>E-25</b>	<b>Sofiane Abdelouhab</b> <i>Mechanical Study and Modelling of a Mesoporous Silicon Anode for Lithium Ion Batteries</i>
<b>E-10</b>	<b>Johann Sosoe</b> <i>Heteroleptic Copper-based Sensitizers Bearing <math>\pi</math>-Extended Phenazine Ligands</i>	<b>E-26</b>	<b>Tao Liu</b> <i><math>CH_3NH_3PbX_3</math> Perovskite Solar Absorber</i>
<b>E-11</b>	<b>Lucas Huet</b> <i>Smart Binders for Silicon Based Composite Electrode in Li-ion Batteries</i>	<b>E-27</b>	<b>Valérie Charbonneau</b> <i>Low Frequency Electrochemical Impedance Spectroscopy to Diagnose the Effects of the Aging Process on Cathode Particles</i>
<b>E-12</b>	<b>Laurence Savignac</b> <i>Métastabilité du <math>Li_0,6FePO_4</math> en solution solide: cinétiques de séparation de phase et effet de surface</i>	<b>E-28</b>	<b>Vincent Picard</b> <i>Cyclohexyl-Based Catalysts for Hydrogen Generation</i>
<b>E-13</b>	<b>Li Shi</b> <i>Phase-Junction Design of MOF-Derived <math>TiO_2</math> Photoanodes Sensitized with Quantum Dots for Efficient Electron Transfer and Hydrogen Generation</i>	<b>E-29</b>	<b>Yanqing Fu</b> <i>High-performance reversible aqueous Zn-ion battery based on porous <math>MnO_x</math> nanorods coated by MOF-derived N-doped carbon</i>
<b>E-14</b>	<b>Gabriele Capilli</b> <i>Flexible semiconducting nanofibers functionalized with ZnO for enhanced and sustainable water decontamination</i>	<b>E-30</b>	<b>Raphaël Gervais Lavoie</b> <i>Adsorption multi-composantes par la théorie du potentiel</i>
<b>P-1</b>	<b>Alexandre Levesque</b> <i>Probing the Origin of High Levels of Polymorphism</i>	<b>P-11</b>	<b>Daliah Farajat</b> <i>Exploring the Scope of the Mechanochemical Friedländer Synthesis</i>
<b>P-2</b>	<b>Brenda Guzman-Juarez</b> <i>Fabrication of Amphiphilic Nanoparticles via Mixed Homopolymer Brushes and Characterization of Surface Phase Separation</i>	<b>P-12</b>	<b>Frank Juvenal</b> <i>Highly Luminescent Porous Coordination Polymers with Silver Salts and Novel Organometallic Ligand</i>
<b>P-3</b>	<b>Dominik Dettmann</b> <i>Tailored bottom-up synthesis of novel two-dimensional <math>\pi</math>-conjugated polymers: Challenges and prospective</i>	<b>P-13</b>	<b>Jair Esquivel</b> <i>Water-soluble Copolymers Containing Porphyrin Derivatives</i>
<b>P-4</b>	<b>Khosrow Maghsoudi</b> <i>Rigorous Testing to Assess the Self-cleaning properties of an Ultra-water-repellent Silicone Rubber Surface</i>	<b>P-14</b>	<b>Jie Jiang</b> <i>Vapor Induced Actuation of Porous Liquid Crystal Polymer</i>
<b>P-5</b>	<b>Jane Ebstelé Eiyegbenin</b> <i>Dialdehyde Cellulose (DALC) as a Replacement for Poly Vinyl Alcohol (PVA) Films for Water Soluble Applications</i>	<b>P-15</b>	<b>Guillaume Beaudoin</b> <i>Design and Synthesis of New Thermoresponsive Polymers Possessing a UCST Based on the Formation and Disruption of Hydrogen Bonds</i>
<b>P-6</b>	<b>Juliette Triquet</b> <i>Étude comparative de formulations de monomères pour la densification du bois et polymérisation par faisceau d'électrons</i>	<b>P-16</b>	<b>Mahnaz Kamaliardakani</b> <i>Synthesis of Glycopolymers and Enzymatic Conversions</i>
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**Légende / Legend**

**N = Nanoscience**

**B = Biomedical**

**G = Green Chemistry**

**E = Energy**

**P = Polymer Science**

**S = Self-Assembly**