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Chemistry

Platform of the Swiss Academy of Sciences

**2019 Chemistry Travel Award by SCNAT and SCS**

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The «Platform Chemistry» of the Swiss Academy of Sciences (SCNAT) together with the Swiss Chemical Society (SCS) announced the «2019 Chemistry Travel Award». This program supports excellent PhD students in chemical sciences by sponsoring them to participate in an international conference. Students from all fields of chemistry and from any Swiss institution were invited to participate and a large number of applications was received. The selection committee is set up with four chemists working in diverse fields of chemistry: Prof. Dr. Christian Bochet (SCS, University of Fribourg), Dr. Marc Suter (SCS, Eawag), Prof. Dr. Shana Sturla (SCNAT, ETH Zurich) and Prof. Dr. Oliver Wenger (SCNAT, University of Basel). They each reviewed and rated all of the applications (except their own students'), based primarily on the submitted conference abstract and the scientific achievements.

Last year's winners Benjamin Bauer (EPF Lausanne) and Erwin Lam (ETH Zurich) had to withdraw their application because they could not attend the conference for which they received the travel award. In consequence, they were allowed to participate again and the number of awards is increased this year.

On behalf of SCNAT and SCS we hereby congratulate this year's winners and wish them a very successful conference participation.

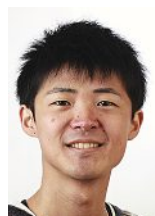
We proudly present the winners of the «2019 Chemistry Travel Award»:



**Hazem Ahmed** (ETH Zurich)  
Group: Prof. Dr. Simon M. Ametamey  
Conference: International Society of Radiopharmaceutical Sciences Meeting 2019  
Title: Rapid and Chemoselective Ligation of Hydroxylamine-functionalized Biomolecules with [<sup>18</sup>F]6-Fluoronicotinoyltrifluoroborate at Room Temperature



**Samantha Anderson** (EPF Lausanne)  
Group: Prof. Dr. Berend Smit  
Conference: 102<sup>nd</sup> Canadian Chemistry Conference and Exhibition  
Title: 1. A Multimodal Metal-Organic Framework Sensor for Real Time Carotid Artery Pulse Monitoring, and 2. Room Temperature Depolymerization of PET plastics



**Ryo Asakura** (Empa & University of Geneva)  
Group: Prof. Dr. Hans Hagemann  
Conference: 22<sup>nd</sup> International Conference on Solid State Ionics (SSI-22)  
Title: Electrochemical Oxidative Stability of Hydride-Based Solid-State Electrolytes



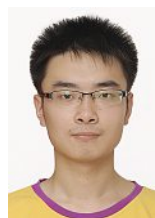
**Mehrdad Asgari** (EPF Lausanne)  
Group: Prof. Dr. Wendy Queen  
Conference: 3<sup>rd</sup> International Conference on Metal Organic Frameworks and Porous Polymers (EuroMOF 2019)  
Title: Study of Structural Derived Parameters on the Gas Adsorption Properties of Cu-BTTri Framework by in-situ Diffraction Techniques



**Mohammad Asghari** (ETH Zurich)  
Group: Prof. Dr. Andrew de Mello  
Conference: Gordon Research Conference (GRC): Microfluidics for Studying Complex Systems  
Title: Oscillatory Viscoelastic Microfluidics for Efficient Focusing and Separation of Particles



**Benoit Audic** (EPF Lausanne)  
Group: Prof. Dr. Nicolai Cramer  
Conference: 26<sup>th</sup> International Symposium: Synthesis in Organic Chemistry  
Title: Mild and General Complexation for Cp Ligands: Ligand Design and in-situ Applications



**Lichen Bai** (EPF Lausanne)  
Group: Prof. Dr. Xile Hu  
Conference: The 47<sup>th</sup> IUPAC World Chemistry Congress, IUPAC 2019  
Title: A Cobalt-Iron Double-Atom Catalyst for the Oxygen Evolution Reaction



**Loren Ban** (ETH Zurich)  
Group: Prof. Dr. Ruth Signorell  
Conference: Gordon Research Conference: Molecular and Ionic Clusters  
Title: Photoelectron Velocity-Map Imaging of Charged Submicron-sized Droplets



Tomislav **Begusic** (EPF Lausanne)  
 Group: Prof. Dr. Jiri Vanicek  
 Conference: 10<sup>th</sup> Congress of the International Society of Theoretical Chemical Physics  
 Title: Single-Hessian Thawed Gaussian Approximation: The Missing Rung on the Ladder



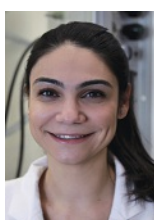
Yuan-Peng **Du** (EPF Lausanne)  
 Group: Prof. Dr. Jeremy Luterbacher  
 Conference: ACS Fall 2019 National Meeting  
 Title: Post-synthesis Deposition of Mesoporous Niobic acid with Improved Thermal Stability by Kinetically Controlled Sol-gel Overcoating



Bogdan **Benin** (ETH Zurich)  
 Group: Prof. Dr. Maksym Kovalenko  
 Conference: NanoGe Fall Meeting  
 Title: Low-dimensional Tin-halides: Properties and Novel Applications



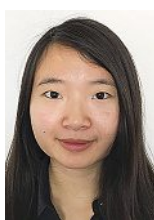
Léo **Duchêne** (Empa & University of Geneva)  
 Group: Prof. Dr. Hans Hagemann  
 Conference: 2019 Spring Meeting of the European Materials Research Society  
 Title: Elucidating the Complex Ionic Conductivity Behavior of the Na<sub>2</sub>(B<sub>12</sub>H<sub>12</sub>)<sub>0.5</sub>(B<sub>10</sub>H<sub>10</sub>)<sub>0.5</sub> Solid-state Electrolyte



Roxan **Calvo** (ETH Zurich)  
 Group: Prof. Dr. Antonio Togni  
 Conference: European Symposium on Organic Chemistry  
 Title: Facile Access to Nitroarenes and Nitroheteroarenes Using N-nitrosaccharin: An Electrophilic Nitrating Reagent



Radmila **Faizova** (EPF Lausanne)  
 Group: Prof. Dr. Marinella Mazzanti  
 Conference: ACS Fall 2019 National Meeting & Exposition  
 Title: Unprecedented Uranium Species: From Water-stable Uranyl(v) to Uranium(IV) POM Clusters



Ka Wing **Chan** (ETH Zurich)  
 Group: Prof. Dr. Christophe Copéret  
 Conference: EuropaCat 2019  
 Title: Initiation in Molecular and Supported Alkene Metathesis Catalysts



Ricardo **Fernández-Terán** (University of Zurich)  
 Group: Prof. Dr. Peter Hamm  
 Conference: 23<sup>rd</sup> International Symposium on the Photochemistry and Photophysics of Coordination Compounds (ISPPCC)  
 Title: Substituent Effects in the Excited-state Dynamics and Spectroscopic Properties of Re(I)κ<sup>2</sup>N-tricarbonyl and κ<sup>2</sup>N-dicarbonyl Complexes with Terpyridine Ligands



Caroline **Davis** (Eawag & ETH Zurich)  
 Group: Prof. Dr. Elisabeth Janssen  
 Conference: SETAC Europe 29<sup>th</sup> Annual Meeting  
 Title: Environmental Fate of Antimicrobial Peptides



Daniele **Fiorito** (University of Geneva)  
 Group: Prof. Dr. Clément Mazet  
 Conference: European Symposium on Organic Chemistry ESOC 2019  
 Title: Copper-Catalyzed Borylation of Olefins: A Quest for Reactivity and Selectivity



Lorena **De Luca** (ETH Zurich)  
 Group: Prof. Dr. Antonio Mezzetti  
 Conference: Gordon Research Conference (Organometallic Chemistry)  
 Title: Asymmetric Transfer Hydrogenation with a Bifunctional Iron(II) Hydride: Experiment Meets Computation



Chethana Janardhana **Gadiyar** (EPF Lausanne)  
 Group: Prof. Dr. Raffaella Buonsanti  
 Conference: Materials Research Society (MRS) Fall Meet 2019  
 Title: Monitoring Solid State Reactions at the Nanoscale in Binary Nanocrystal Superlattices to Access Tunable Multinary Metal Oxides



Huachuan **Du** (EPF Lausanne)  
 Group: Prof. Dr. Esther Amstad  
 Conference: 2019 Gordon Research Conference on Self-Assembly and Supramolecular Chemistry  
 Title: Amorphous CaCO<sub>3</sub>: Influence of the Formation Time on its Degree of Hydration and Stability



Nathalie **Grob** (ETH Zurich)  
 Group: Prof. Dr. Thomas Mindt  
 Conference: 23<sup>rd</sup> International Symposium on Radiopharmaceutical Sciences  
 Title: Second Generation of Triazolominigastrins: Towards Further Improvement of Tumour-Targeting Characteristics of Radiopeptidomimetics



Raphael **Hofmann** (ETH Zurich)  
Group: Prof. Dr. Jeffrey W. Bode  
Conference: 8<sup>th</sup> Chemical Protein Synthesis Meeting (CPS) 2019  
Title: Enzymatic Isopeptide Labeling of Native Proteins



Shiqi **Huang** (EPF Lausanne)  
Group: Prof. Dr. Kumar Varoon Agrawal  
Conference: 2019 AIChE Annual Meeting  
Title: Crack-free, Large-area, Single-layer Graphene Membranes with a Record Performance in Gas Mixture Separation



Sutida **Jansod** (University of Geneva)  
Group: Prof. Dr. Eric Bakker  
Conference: Matrafured 2019  
Title: Colorimetric Readout of Potentiometric Probes with Closed Bipolar Electrodes and Prussian Blue Film



Selina **Kaiser** (ETH Zurich)  
Group: Prof. Dr. Javier Pérez-Ramírez  
Conference: IUPAC 2019  
Title: Controlling the Speciation and Reactivity of Carbon-supported Gold and Ruthenium Nanostructures in Catalyzed Acetylene Hydrochlorination



Stavroula **Kampouri** (EPF Lausanne)  
Group: Prof. Dr. Kyriakos Stylianou  
Conference: 2019 MRS (Materials Research Society) Fall Meeting and Exhibit  
Title: Concurrent Photocatalytic Hydrogen Generation and Dye Degradation Using MIL-125-NH<sub>2</sub> under Visible Light Irradiation



Rania **Kazan** (University of Geneva)  
Group: Prof. Dr. Thomas Bürgi  
Conference: International Symposium on Monolayer-Protected Clusters (ISMPC2019)  
Title: Metal and Ligand Exchange Reactions between Gold Nanoclusters and Metal Surfaces



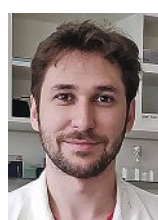
Ardita **Kilaj** (University of Basel)  
Group: Prof. Dr. Stefan Willitsch  
Conference: International Symposium on Molecular Beams 2019  
Title: Reaction Kinetics of Trapped Molecular Ions with Conformer- and Isomer-selected Neutral Molecules



Marie **Kopp** (ETH Zurich)  
Group: Prof. Dr. Paolo Arosio  
Conference: Gordon Research Conference - The Role of Form and Formulation  
Development in Transforming a New Era of Molecules into Therapeutics  
Title: Microfluidic and Nanotechnology Based assays for the Development of Safe Biopharmaceuticals



Erwin **Lam** (ETH Zurich)  
Group: Prof. Dr. Christophe Copéret  
Conference: Europacat 2019  
Title: Isolated Zr Surface Sites on Silica Promote Hydrogenation of CO<sub>2</sub> to CH<sub>3</sub>OH in Supported Cu Catalysts



Benjamin **Lambert** (EPF Lausanne)  
Group: Prof. Dr. Ardemis Boghossian  
Conference: 235<sup>th</sup> ECS Meeting  
Title: Directed Evolution of the Optoelectronic Properties of Synthetic Nanomaterials



Yongpeng **Liu** (EPF Lausanne)  
Group: Prof. Dr. Kevin Sivula  
Conference: ACS Fall 2019 National Meeting & Exposition  
Title: In Situ and Operando Spectroelectrochemical Techniques for Evaluating Interfacial Carrier Behavior in Emerging Photoelectrodes for Solar Fuel Production



Sotiria **Mostrou-Moser** (ETH Zurich)  
Group: Prof. Dr. Jeroen Anton van Bokhoven  
Conference: EuropaCat2019 "Catalysis without Borders"  
Title: Uncovering the Real Role of Gold in the Ethanol Oxidation



Rob Jeremiah **Nuguid** (PSI & EPF Lausanne)  
Group: Prof. Dr. Oliver Kröcher  
Conference: 8<sup>th</sup> Asia-Pacific Congress on Catalysis  
Title: Modulated-Excitation Raman Spectroscopy of Vanadia-Based Catalysts



Rachele **Ossola** (ETH Zurich)  
Group: Prof. Dr. Kristopher McNeill  
Conference: 17<sup>th</sup> International Conference on Chemistry and the Environment  
Title: Photochemical Production of Sulfate and Methanesulfonic acid from Dissolved Organic Sulfur: Occurrence and Mechanistic Insights



**Subhajit Pal** (University of Fribourg)  
 Group: Prof. Dr. Andreas F. M. Kilbinger  
 Conference: Gordon Research Conference:  
 Innovative Macromolecular Chemistry for  
 Next-Generation Polymer Materials  
 Title: Functional Metathesis Catalyst Through  
 Ring Closing Enyne Metathesis



**Boosarin Sawatlon** (EPF Lausanne)  
 Group: Prof. Dr. Clemence Corminboeuf  
 Conference: The Intersection of Organic  
 Structure, Reactivity and Mechanism (GRC)  
 Title: Mining the C-C Cross-Coupling  
 Genome using Machine Learning



**Alessandro Passera** (ETH Zurich)  
 Group: Prof. Dr. Antonio Mezzetti  
 Conference: EUCOMC XXIII Helsinki 2019  
 Title: Manganese(I)-Catalyzed Asymmetric  
 Hydrogenation of Ketones: Exploring the  
 Analogy to Iron(II)



**Semih Sevim** (ETH Zurich)  
 Group: Prof. Dr. Josep Puigmarti-Luis  
 Conference: EUROmof2019: 3<sup>rd</sup> International  
 Conference on Metal Organic Frameworks  
 and Porous Polymers  
 Title: Microreactors as Advanced Tools for  
 Controlled Surface Chemistry



**Margherita Pucino** (ETH Zurich)  
 Group: Prof. Dr. Christophe Copéret  
 Conference: International symposium on  
 olefin metathesis and related chemistry  
 Title: Silica-Supported Molybdenum-  
 Oxoalkylidenes: A Highly Efficient Single-  
 Site Olefin Metathesis Catalyst for Terminal  
 Olefins



**Philipp Sonderrmann** (ETH Zurich)  
 Group: Prof. Dr. Erick Carreira  
 Conference: Natural Products and Bioactive  
 Compounds  
 Title: Stereochemical Revision, Total  
 Synthesis and Solution State Conformation of  
 the Complex Chlorosulfolipid Mytilipin B



**Manoj Ravi** (ETH Zurich)  
 Group: Prof. Dr. Jeroenvan Bokhoven  
 Conference: EuropaCat 2019  
 Title: Towards a Better Understanding of  
 Lewis-acidic Aluminum in Zeolites



**Karolina Strakova** (University of Geneva)  
 Group: Prof. Dr. Stefan Matile  
 Conference: 27<sup>th</sup> International Society of  
 Heterocyclic Chemistry Congress  
 Title: Fluorescent Probes to Image Physical  
 Forces in Biology



**Matthieu Richter** (ETH Zurich)  
 Group: Prof. Dr. Erick Carreira  
 Conference: Organic Reactions and Processes  
 Conference GRC  
 Title: Total Synthesis of (-)-Mitrephorone A



**Tian Tian** (ETH Zurich)  
 Group: Prof. Dr. Chih-Jen Shih  
 Conference: ACS Fall 2019 National Meeting  
 Title: Two-Dimensional Materials as High-  
 Pass Filters of van der Waals Interactions



**Saroj Kumar Rout** (ETH Zurich)  
 Group: Prof. Dr. Roland Riek  
 Conference: Origins of Life - Gordon  
 Research Conference  
 Title: Amyloid-RNA Coevolution on the  
 Prebiotic Earth: the Foundation of the Genetic  
 Code?



**Jian Wang** (EPF Lausanne)  
 Group: Prof. Dr. Harm-Anton Klok  
 Conference: 2019 National Polymer  
 Academic Papers Conference  
 Title: Swelling-Induced Chain Stretching  
 Enhances Hydrolytic Degrafting of  
 Hydrophobic Polymer Brushes in Organic  
 Media