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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.

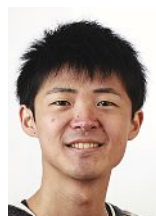
We proudly present the winners of the «2019 Chemistry Travel Award»:



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 [¹⁸F]6-Fluoronicotinoyltrifluoroborate at Room Temperature



Samantha Anderson (EPF Lausanne)
Group: Prof. Dr. Berend Smit
Conference: 102nd 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: 22nd 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: 3rd International Conference on Metal Organic Frameworks and Porous Polymers (EuroMOF 2019)
Title: Study of Structural Derived Parameters on the Gas Adsorption Properties of Cu-BTTr 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: 26th 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 47th 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: 10th Congress of the International Society of Theoretical Chemical Physics
 Title: Single-Hessian Thawed Gaussian Approximation: The Missing Rung on the Ladder



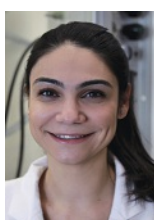
Yuan-Peng **Du** (EPF Lausanne)
 Group: Prof. Dr. Jeremy Luterbacher
 Conference: ACS Fall 2019 National Meeting
 Title: Post-synthesis Deposition of Mesoporous Niobic acid with Improved Thermal Stability by Kinetically Controlled Sol-gel Overcoating



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



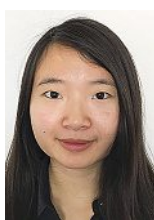
Léo **Duchêne** (Empa & University of Geneva)
 Group: Prof. Dr. Hans Hagemann
 Conference: 2019 Spring Meeting of the European Materials Research Society
 Title: Elucidating the Complex Ionic Conductivity Behavior of the $\text{Na}_2(\text{B}_{12}\text{H}_{12})_0.5(\text{B}_{10}\text{H}_{10})_0.5$ Solid-state 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: 23rd International Symposium on the Photochemistry and Photophysics of Coordination Compounds (ISPPCC)
 Title: Substituent Effects in the Excited-state Dynamics and Spectroscopic Properties of $\text{Re}(\text{I})\kappa^2\text{N}$ -tricarbonyl and $\kappa^2\text{N}$ -dicarbonyl Complexes with Terpyridine Ligands



Caroline **Davis** (Eawag & ETH Zurich)
 Group: Prof. Dr. Elisabeth Janssen
 Conference: SETAC Europe 29th 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_3 : Influence of the Formation Time on its Degree of Hydration and Stability



Nathalie **Grob** (ETH Zurich)
 Group: Prof. Dr. Thomas Mindt
 Conference: 23rd 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: 8th 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-NH₂ 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



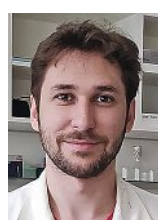
Ardita **Kilaj** (University of Basel)
Group: Prof. Dr. Stefan Willitsch
Conference: International Symposium on Molecular Beams 2019
Title: Reaction Kinetics of Trapped Molecular Ions with Conformer- and Isomer-selected Neutral Molecules



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 CO₂ to CH₃OH in Supported Cu Catalysts



Benjamin **Lambert** (EPF Lausanne)
Group: Prof. Dr. Ardemis Boghossian
Conference: 235th 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: 8th Asia-Pacific Congress on Catalysis
Title: Modulated-Excitation Raman Spectroscopy of Vanadia-Based Catalysts



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



Subhajt 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: 3rd 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: 27th 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