Università di Genova

MSCA PF 2021 @UniGe

Supervisor Expression of Interest

MSCA domain
Chemistry (CHE)

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Supervisor Expression of Interest

1.

First Name	Andrea
Last Name	Basso
Orcid ID	0000-0002-4700-1823
Other information	https://rubrica.unige.it/personale/VUZBW1xt
MSCA domain	Chemistry (CHE)
Research focus area	Synthetic organic photochemistry
Department	Department of Chemistry and Industrial Chemistry - DCCI
Short description of the department/laboratory/research group	The group is world leader in the field of isocyanide-based multicomponent reactions. It is also internationally recognised in the field of organic photochemistry. Main achievements are the discovery of novel photoinduced and photocatalyzed multicomponent reactions. These novel, substainable, synthetic methodologies are applied to the preparation of molecules with biological activity or other properties.
Candidate fellows must send their candidature with a short description of their profile to the following email address	andrea.basso@unige.it

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2.

First Name	Guido
Last Name	Busca
Orcid ID	0000-0002-5682-2682
Other information	https://rubrica.unige.it/personale/VUZEW1lt
MSCA domain	Chemistry (CHE)
Research focus area	Industrial Chemistry, Green Chemistry, Chemical Engineering
Department	Department of Civil, Chemical and Environmental Engineering - DICCA
Short description of the department/laboratory/research group	At the Department of Civil, Chemical and Environmental Engineering (DICCA) of the University of Genoa, research is carried out in the fields of structural mechanics, solids and fluids, seismic engineering, geotechnics, geomatics, marine hydraulics and hydrology, materials, electrochemistry, industrial chemistry, catalysis, development and modeling of chemical, food and biotechnological plants and processes. The surface chemistry and industrial catalysis group, led by Prof. Guido Busca, carries out research in the frame of adsorption and catalytic processes both from the chemical engineering and the surface chemistry point of view by developing innovative nanoarchitectured catalytic materials and characterising them with the available facilities within the research group. In particular,green chemical processes and catalytic materials for them are developed for the sustainable production of chemical intermediates and biofuels. Main collaborators of Prof. Guido Busca are Profs.

	Elisabetta Finocchio, Paola Riani and Gabriella Garbarino.
Candidate fellows must send their candidature with a short description of their profile to the following email address	Guido.Busca@unige.it

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3.

First Name	Diego
Last Name	Colombara
Orcid ID	0000-0002-8306-0994
Other information	https://rubrica.unige.it/personale/UkNEWF9r
MSCA domain	Chemistry (CHE)
Research focus area	Photovoltaics
Department	Department of Chemistry and Industrial Chemistry - DCCI
Short description of the department/laboratory/research group	The PI is a leading expert of extrinsic doping of chalcogenide semiconductors for photovoltaic applications. Particular focus is given to atomic diffusion effects in these materials and to its consequences on the optoelectronic properties of the material, also in terms of photovoltaic performance in collaboration with leading institutions in Europe and US.
Candidate fellows must send their candidature with a short description of their profile to the following email address	diego.colombara@unige.it

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4.

First Name	Attilio
Last Name	Converti
Orcid ID	0000-0003-2488-6080
Other information	https://rubrica.unige.it/personale/VUZEXV5h
MSCA domain	Chemistry (CHE)
Research focus area	Extraction, Essential oils, Lignocellulosic materials, Switchable ionic liquids
Department	Department of Civil, Chemical and Environmental Engineering - DICCA
Short description of the department/laboratory/research group	The Department of Civil, Chemical and Environmental Engineering (DICCA) of UNIGE is a multidisciplinary department having different scientific research-groups, among which are that of Industrial and Environmental Biotechnology, coordinated by prof. Attilio Converti. The research-group has two little laboratories, the one destined to biochemistry, to industrial biotechnology, and to microalgae growth in different photobioreactors configurations under mixotrophic conditions, and the other to biogas production in lab-scale digester with biogas upgrade through microalgae under photoautotrophy. The group has also expertise in the a) kinetic, thermodynamic and structural characterization of biocatalysts, b) their immobilization in different supports by different methods, c) their use to perform continuous bioprocesses in different bioreactor configurations, and, more recently, d) the use of microreactor technology for the continuous synthesis of new drugs.

Candidate fellows must send their candidature with a short description of their profile to the following email address	converti@unige.it

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5.

First Name	Davide
Last Name	Peddis
Orcid ID	0000-0003-0810-8860
Other information	https://rubrica.unige.it/personale/UkNOWllh
MSCA domain	Chemistry (CHE)
Research focus area	Magnetic Nanoparticles
Department	Department of Chemistry and Industrial Chemistry - DCCI
Short description of the department/laboratory/research group	https://sites.google.com/view/nm2-lab/home
Candidate fellows must send their candidature with a short description of their profile to the following email address	davide.peddis@unige.it