

June 22, 2018

Dear Materials Chain members,

we are pleased to present to you our issue of Infomail No. 2 in a slightly adapted look.

Preparations for our second edition of the [Materials Chain International Conference \(MCIC 2018\)](#) are currently in full swing. The [preliminary program](#) is now online and the deadline for abstracts on June 30 is approaching. We would be very pleased if you would advertise for our conference again with your national and international colleagues as well as with your co-workers!

We would also like to draw your attention to two more or less new tools on our dynamically growing website (it's always worth a visit!): On the one hand, you can now search for a specific author or term via the free text search, or use the [interactive keyword cloud](#) to get to know our research strengths. On the other hand, we would like to present our [interactive network map](#). It visualizes the density of collaborative research activities between the Materials Chain's members, based on co-authored journal articles published since 2010.

Finally, we are very proud of our newcomer program EXPLORE Materials Chain, which was recently awarded the prize for International Research Marketing by [Professor Dzwonnek](#) in Berlin and for which we have already received 70 international applications!

All further news can be found below! You are always welcome to let us know about your highlights, which we will happily spread on our website or in our newsletter!

Best regards,
Your Materials Chain Coordinators (Ralf Drautz, Axel Lorke, Wolfgang Tillmann)

New Members

Prof. Dr. Martina Schmid
Experimental Physics
University of Duisburg-Essen

Research Interests: Multi-optical concepts for solar energy

- Chalcopyrite-based photovoltaics
- Nano and micro structures for light guiding
- Multi-physics simulations

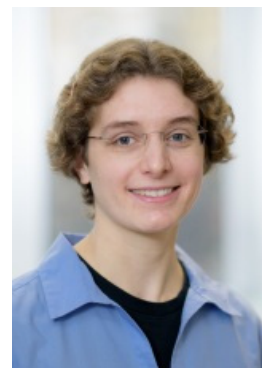


Foto: UDE/Frank Preuß

Dr. Davide Giuseppe Sangiovanni

ICAMS

Ruhr-Universität Bochum



Research Interests: Atomistic simulation of mechanical behaviour

- Density functional theory
- molecular dynamics
- interatomic potentials

Coordinated Projects

New Collaborative Research Centre on Catalysis

Nanotechnology and catalysis research are combined in a new Collaborative Research Centre, which will be established in July at the University of Duisburg-Essen (UDE) and the Ruhr-Universität Bochum (RUB). It is funding the new consortium ("Heterogeneous oxidation catalysis in the liquid phase"), under the umbrella of the University Alliance Ruhr (UA Ruhr) with approx. 10 million euros for an initial period of four years. Speakers are Prof. Dr. Malte Behrens and Prof. Dr. Martin Muhler.

[More](#)



TRR 87: Pulsed High Power Plasmas for the Synthesis of Nanostructural Functional Layers

The path to new materials on the surface of classic materials, for example for electromobility, energy technology but also medical technology leads via plasma technology. Researchers from the fields of plasma technology, plasma physics, materials science and interface chemistry are working together in this Collaborative Research Centre/Transregio. Speaker is Prof. Dr. Peter Awakovicz.

[More](#)



CRC 837: Interaction Modelling in Mechanised Tunnelling

Today, tunnels are largely dug and secured automatically by underground factories. A challenge here are, for example, different building sites, groundwater conditions and the buildings on the surface, which of course should not be damaged. The scientists from the fields of civil engineering, computational engineering, geosciences and mechanical engineering, whose spokesperson is Prof. Dr. Günther Meschke, are investigating all processes relating to safety and efficiency in mechanical tunnel construction and their interactions.

[More](#)



Awards (Congratulations!)

Bilal Gökce receives Fojtik Henglein Prize

On June 7, 2018, Dr. Bilal Gökce was awarded the Fojtik-Henglein Prize at the international conference Advanced Nanoparticle Generation and Excitation by Lasers in Liquids (ANGEL) in Lyon, France.

[More](#)



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Kristina Tschulik receives Hellmuth Fischer Medal

Prof. Dr. Kristina Tschulik, head of the electrochemistry and nanoscale materials group and holder of the Chair of Analytical Chemistry II at the Ruhr-Universität Bochum, aims to better understand electrochemical processes. On May 29, 2018, she was awarded the Hellmuth Fischer Medal 2018 of the Dechema Society for Chemical Engineering and Biotechnology for her contributions to basic research.

[More](#)



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Gerd Witt receives VDI Herwart-Opitz Medal of Honor

Prof. Dr.-Ing. Gerd Witt from the University of Duisburg-Essen (UDE) is regarded as a pioneer in the field of additive manufacturing technology. The VDI Association of German Engineers has now awarded him the Herwart-Opitz Medal of Honor for his many years of dedicated work.

[More](#)



100,000 euros for EXMAC: Award for research marketing concept

What strategy is used to attract internationally outstanding minds? How can top-level research be made more visible worldwide? One answer is the exchange program EXMAC ("Explore Materials Chain"), initiated by University Alliance Ruhr's flagship program Materials Chain and Research Academy Ruhr. The concept convinced the jurors in the DFG competition "International Research Marketing".

[More](#)



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Upcoming Events

10 Years ICAMS - International Symposium

On the occasion of the 10th anniversary of ICAMS, an International Symposium will summarize recent developments and advances in the field of materials modelling in a three-day meeting from June 25 to 27, 2018 at Ruhr-Universität Bochum, Germany.

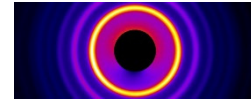
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CRC 1242: International Conference 2018

The conference will be a forum for presentation and discussion of recent experimental and theoretical developments in the field of non-equilibrium dynamics excited by external stimuli such as light, ion, or electrical field pulses.

[More](#)



10th International Conference on Screw Machines (ICSM2018)

Since 1984, the Screw Machines Conference has highlighted progress in research and development in the design, development and application of all types of screw machines and the products in which they are used. All who are involved in research, development, manufacture, service, and operation are invited to exchange ideas and opinions at this forum.

[More](#)



Deadline for abstract submission: June 30, 2018

A blue poster for the 2nd Materials Chain International Conference (MCIC 2018). The text on the poster includes: '2nd Materials Chain International Conference', 'MCIC 2018', 'November 12-14, 2018', and 'UA Ruhr, Bochum, Germany'. At the bottom, there is a white line-art illustration of an industrial facility with various structures and pipes. In the bottom right corner, there is a logo for 'Materials Chain UA RUHR'.

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