

An improved immersed boundary method for Neumann boundary conditions with the application to Janus particle

Yibo Chen, Xiaojue Zhu, Kai Leong Chong, Roberto Verzicco and Detlef Lohse
Complex Motion in Fluids 2019, Kysthusene Gilleleje, Denmark

BIJELS DESIGN ON CHIP FOR HETEROGENEOUS CATALYSIS

Alessia Broccoli, Albert van den Berg, Mathieu Odijk, Anke R. Vollertsen, Corentin Tregouet
MCEC annual meeting, Enschede, The Netherlands

Carbon-supported Cu₂-xS nanoparticles for the electrocatalytic reduction of CO₂

Christa van Oversteeg, Marisol Tapia Rosales, Kristiaan Helfferich, Peter Ngene, Celso de Mello Donegá and Petra de Jongh
ECCM graduate school, Eerbeek (Netherlands)

Catalytic conversion of furanics to aromatics: how zeolite acidity and structural properties control BTX fraction selectivity

A.Liutkova, N.A.Kosinov, E.J.M.Hensen
MCEC Annual Meeting, University of Twente

Chemical reactions & mixing in turbulent multiphase flow with active & passive catalytic particles

On-Yu Dung, Elise Alméras, Biljana Gvozdić, Dennis P.M. van Gils, Sander G. Huisman, Chao Sun, Detlef Lohse
6th Bremen Winter School and Symposium on "Dynamical Systems and Turbulence", Bremen/
Germany

Colourful catalysis: observing photocatalysis by watching a dye change colour

Stijn O.M. Hinterding, Eveline B. Meijers, Alfons van Blaaderen, Bert M. Weckhuysen, Freddy T. Rabouw
NCCC conference, Noordwijkerhout

Controlled bubble nucleation in gas-liquid-solid catalytic microsystems for enhanced mass transport

Renée M. Ripken, Jeffery A. Wood, Stefan Schlautmann, Johannes G.E. Gardeniers and Séverine Le Gac
MicroTAS, Kaohsiung, Taiwan

Detached Eddy Simulation of a Square Bubble Column in Euler-Lagrange Framework

M. Masterov, M.W. Baltussen, J.A.M. Kuipers
NPS15, Twente/Netherlands

Diels-Alder Cycloaddition of 2,5-Dimethylfuran and Ethylene

F. J. A. G. Coumans, N. A. Kosinov, E. J. M. Hensen
MCEC Annual Meeting, Enschede

Direct Numerical Simulation of Flow in a Trickle Bed Reactor

A.Tavanaei, M.W. Baltussen, K.A. Buist, J.A.M. Kuipers
Physics @ Veldhoven, Veldhoven - the Netherlands

Dissolution of droplets on patterned substrates: Ellipses and concentric rings.

JM Encarnación Escobar, X Zhang, H Zandvliet, D Lohse
Different events including summerschool MCEC Meeting, JMBC Meeting, Veldoven/NL 'Werelt' in
Lunteren/NL

Droplet microreactor for reaction monitoring at elevated temperatures and pressure

J.C. Vollenbroek, A.E. Nieuwelink, J.G. Bomer, R.M. Tiggelaar, A. van den Berg, B.M. Weckhuysen, M. Odijk

microTas 2018, Kaohsiung/Taiwan

Dynamics of anion-exchange reactions in perovskite nanocrystals

Mark Mangnus, Alfons van Blaaderen, Bert Weckhuysen and Freddy Rabouw

Physics@Veldhoven, Veldhoven, NL

Exploring the Complexity of Pore Space of a Catalyst Particle

Rafael Mayorga Gonzalez

MCEC Annual Meeting, Enschede - The Netherlands

Exploring the Complexity of Pore Space of a Catalyst Particle

Rafael Mayorga Gonzalez

Catalysis Connected, Utrecht - The Netherlands

Fabrication of structured Nafion membranes for protein crystallization

Polino, M.; Portugal, C. A. M.; Coelho, I. M.; Tiggelaar, R. M.; Le-The, H.; Eijkel, J. C. T.; Crespo, J. G.; Pina, M. P.; Mallada, R.

Euromembrane conference 2018, Spain

From mechanical mixture of pulsed laser-ablated NPs to highly active Pt/CeO₂ catalyst for CO oxidation

E. Slavinskaya, A. Stadnichenko, V. Muravyov, T. Kardash, E. Derevyannikova, V. Zaikovskii, O. Stonkus, I. Lapin, V. Svetlichnyi, A. Boronin

"3rd Fundamentals and applications of cerium dioxide in catalysis", conference, Barcelona, Spain

Fundamental study on the synthesis of supported silver catalysts using melt infiltration

Petra H. Keijzer, Jovana Zečević, Petra E. de Jongh, Krijn P. de Jong

NCCC, Noordwijkerhout, Nederland

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MCEC annual meeting, Enschede, Nederland

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PREPA, Louvain-la-Neuve, Belgium

High-throughput DTL/optical-hybrid lithography for fabricating high-density silicon nanopillar arrays for field emission

D. Jonker, R.M. Tiggelaar, J.W. Berenschot, N.R. Tas, A. van Houselt, H.J.W. Zandvliet, J.G.E. Gardeniers

45th Int. Cong. Micro & Nano Engineering, Rhodes, Greece

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MESA+ Annual Meeting, Enschede, The Netherlands

In-Situ Microscopy and Spectroscopy of the Synthesis, Stability and Catalysis of HKUST-1 Thin-Films

Laurens D. B. Mandemaker, Matthias Filez, Guusje Delen, Huanshu Tan, Xuehua Zhang, Detlef Lohse, Rogier P. Brand, Niek Rijnveld, and Bert M. Weckhuysen

The Netherlands Catalysis and Chemistry Conference, Noordwijkerhout, Netherlands

In-situ Raman Spectroscopy and Atomic Force Microscopy

Joris Koek, Laurens Mandemaker, Christia Jabbour

MCEC lustrum lab tour, Utrecht, Netherlands

Life as a PhD

R.G. Geitenbeek

MCEC annual meeting 2018, Enschede, The Netherlands

Light activated self-propulsion, dynamic assembly and rotation of anisotropic colloids

A.K. Kandar, R. Kotni, A. Van Blaaderen

MCEC Annual meeting, Netherlands

Measuring Nanoparticle Interactions

Maarten Bransen, Alfons van Blaaderen

Physics@Veldhoven, Veldhoven, The Netherlands

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Maarten Bransen, Alfons van Blaaderen

Physics at Veldhoven, Veldhoven, The Netherlands

Microdroplets in high temperature gradients generating porous catalytic microbeads

Corentin Tregouet Johan Bomer, Mathieu Odijk, Detlef Lohse, Albert van den Berg

MicroTAS 2018, Kaohsiung (Taiwan)

MODULAR ATR FT-IR MICROREACTOR CHIP FOR OPTIMIZING REACTION CONDITIONS

Jasper Iozeman, Jeroen Vollenbroek, Hans de Boer, John Bomer, Albert van de Berg en Mathieu Odijk
utas, Taipei, Taiwan

Nano-porosity determined by Ion Concentration Polarization

Miguel Solsona, Martijn Eidhof, Anne-Eva Nieuwelink, Marjolein E. Z. Velthoen, Vasileios

Papadimitriou, Jan C.T. Eijkel, Florian Meirer, Wouter Olthuis, Bert M. Weckhuysen and Albert van den Berg

Eurosensors, Graz, Austria

Particle Scale Transport Phenomena in Trickle Bed Reactors

A. Tavanaei, M.W. Baltussen, K.A. Buist, J.A.M. Kuipers

MCEC Annual Meeting, Enschede - the Netherlands

Phase behaviour of colloidal rod-sphere mixtures in 3D real space

Chris Kennedy, Alfons van Blaaderen

Physics at Veldhoven, Veldhoven, Netherlands

Plasmonic Bubble Nucleation in Binary Liquids

Marvin Detert, Binglin Zeng, Yuliang Wang, Harold Zandvliet and Detlef Lohse

MCEC annual meeting, Enschede, Netherlands

Plasmonic Bubble Nucleation in Binary Liquids

Marvin Detert, Binglin Zeng, Yuliang Wang, Harold Zandvliet and Detlef Lohse
CMiF summer school, Kysthusene, Denmark

Pore structure stabilization during the preparation of ordered macroporous α -alumina

Petra H. Keijzer, Jeroen E. van den Reijen, Petra E. de Jongh
ACIN, Namur, Belgium

Porous sub-micrometer PDMS membranes as cell culture substrates in a microfluidic chip

Tibbe, M. P.; Le-The, H.; Leferink, A. M.; Eijkel, J. C. T.; Segerink, L. I.
MMB conference 2018, USA

Quantitative fluorescence imaging of proton transfer between furfuryl alcohol oligomers and acid sites in zeolite ZSM-5

J.J. Erik Maris, Donglong Fu, Desiree M. Salas Pastene, Florian Meirer, Freddy T. Rabouw, Lukas C. Kapitein, and Bert M. Weckhuysen
NCCC XX, Noordwijkerhout, the Netherlands

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J.J. Erik Maris, Donglong Fu, Desiree M. Salas Pastene, Florian Meirer, Freddy T. Rabouw, Lukas C. Kapitein, and Bert M. Weckhuysen
Probing chemical reactions by single-molecule spectroscopy, Kloster Hoechst, Germany

Self Assembly of Colloidal Rods and Spheres

Chris Kennedy, Alfons van Blaaderen
Physics at Veldhoven, Veldhoven, NL

Shearinduced crystallization of the BCC phase in a fluid of repulsive colloids

Giulia Fiorucci, Ajoy Kandar, Arnout Imhof, Alfons van Blaaderen and Marjolein Dijkstra
Physics@Veldhoven, Veldhoven, The Netherlands

SHINERS for heterogeneous catalysis research

Joris Koek, Thomas Hartman, Robin Geitenbeek, Bert Weckhuysen
MCEC annual meeting, Enschede, Netherlands

Single Particle Mapping: Correlating Multiple Diagnostic Tools for Catalyst Characterization

Anne-Eva Nieuwelink, Marjolein Velthoen, Yoni Nederstigt, Kristel Jagtenberg, Florian Meirer, Bert Weckhuysen
CHAINS, Veldhoven, NL

Super resolution microscopy imaging of nanodroplet: Refractive index matching and STED

José M. Encarnación Esobar, Chris Kennedy, Corentin Tregouet, Alfons van Blaaderen, Xuehua Zhang and Detlef Lohse
MCEC Meeting, JMBC Meeting Max Plank Center Meeting,

Supported silver catalysts prepared via melt infiltration: Synthesis, characterization and catalytic performance

Petra H. Keijzer, Lee Durndell, Baira Donoeva, Jovana Zečević, Petra E. de Jongh, Krijn P. de Jong
CatPrep, Vogüé, France

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NAM, Chicago, USA

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Europacat, Aachen, Germany

Supraparticles for catalysis

RamaKrishna Kotni, Alfons van Blaaderen
Physics Veldhoven, Veldhoven, The Netherlands

Supraparticles for Catalysis

Rama Kotni, Alfons van Blaaderen
FOM conference
Veldhoven, The Netherlands

Supraparticles for Catalysis

Rama Kotni, Alfons van Blaaderen
CHAINS conference, Veldhoven, The Netherlands

The optimal particle size for Cobalt based Fischer-Tropsch Synthesis

Michel van Etten, Emiel Hensen, Ivo Filot
ACOS, Eindhoven, The Netherlands

The optimal particle size for Cobalt based Fischer-Tropsch Synthesis

Michel van Etten, Emiel Hensen, Ivo Filot
CHAINS, Veldhoven, The Netherlands

The production and manipulation of nanoscale, monodisperse droplets at a high yield.

Edo.A.G. de Kruiff, C.B.M. Tregouet, C.L. Kennedy, R. Kotni, A. van Blaaderen, A. van den Berg, M. Odijk, J.C.T. Eijkel
MCEC Annual meet, Enschede, The Netherlands

Towards single-particle and single-molecule catalysis at sub-ms timescales

Stijn O.M. Hinterding, Pieter C.A. Bruijninx, Alfons van Blaaderen, Bert M. Weckhuysen, Freddy T. Rabouw
CHAINS conference, Veldhoven

Tracking diffusion with perovskite quantum dots

Mark Mangnus, Alfons van Blaaderen, Bert Weckhuysen and Freddy Rabouw
MCEC, Enschede, NL

Transwell integrated porous sub-micrometer PDMS membranes as alternative cell culture platform

Tibbe, M. P.; Le-The, H.; Eijkel, J. C. T.; van den Berg, A.; Leferink, A. M.; Segerink, L. I.
MNM conference 2018, USA

Twente Mass and Heat Transfer Tunnel

On-Yu Dung, Biljana Gvozdić, Dennis P. M. van Gils, Gert-Wim H. Bruggert, Elise Alméras, Chao Sun, Detlef Lohse and Sander G. Huisman
CISM course: ADVANCES IN DISPERSED MULTI-PHASE FLOWS: FROM MEASURING TO MODELING, Udine, Italy

Ultra fast infrared spectroscopy for catalytic analysis in the microsecond time domain

Rob Haverkate
MCEC annual meeting 2019, Enschede, The Netherlands

Understanding the Fischer-Tropsch reaction on iron carbide surfaces

R.J.P. Broos, B. Zijlstra, W. Chen, I.A.W. Filot, E.J.M. Hensen
NCCC 2019, Noordwijkerhout

Unraveling the performance and heterogeneity of single catalyst particle

Luca Carnevale, Wouter Olthuis, Mathieu Odijk, Albert van den Berg, Bert Weckhuysen
MCEC annual meeting, Enschede, The Netherlands

Wafer-scale fabrication of high-quality sub-10 nm gold nanogaps

Le-The, H.; Lozeman, J.; Bomer, J. G.; Tong, H. D.; Berenschot, E.; van den Berg, A.; Odijk, M.; Eijkel, J. C. T.
MicroTAS conference 2018, Taiwan

Water-dispersible Copper Sulfide Nanocrystals via Ligand Exchange of 1-dodecanethiol

Christa van Oversteeg, Petra de Jongh and Celso de Mello Donegá
8th Molecular Aspects of Catalysis by Sulfides conference, Cabourg (France)