



INTERNATIONAL SEMINAR 2022 ON AEROGELS

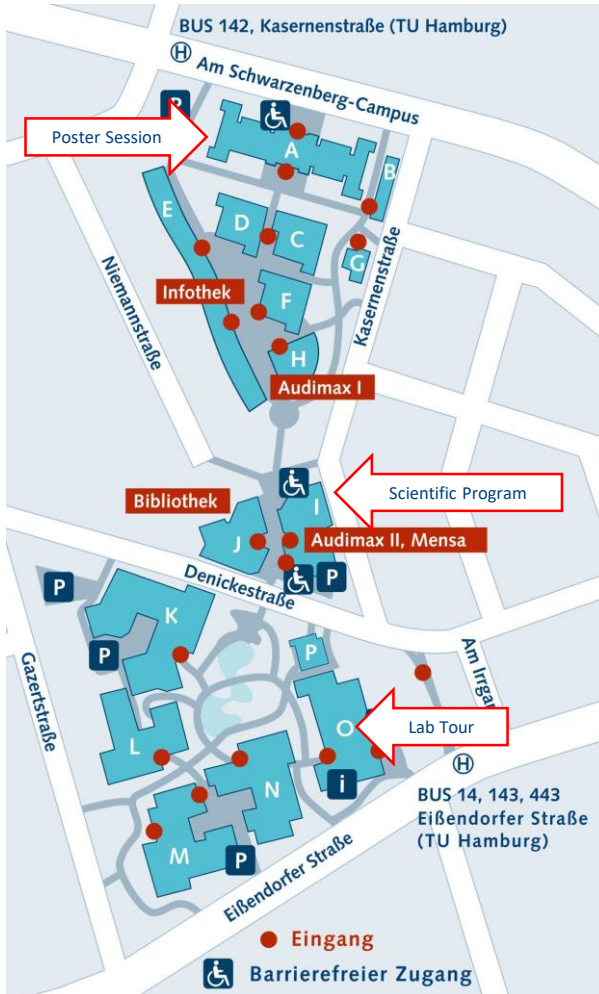
Hamburg, Germany
28. – 30. September 2022

CONFERENCE LOCATION

Hamburg University of Technology

Hamburg, Germany

http://www.aerogel.org/community/seminar_2022/



Registration / Scientific Program / Dinner: Building I
(Denickestraße 22, Hamburg)

Poster Session & Lunch: Building A
(Am Schwarzenberg-Campus 1, Hamburg)

Lab Tour: Building O (Eißendorfer Straße 38, Hamburg)

ORGANIZATION & CONTACT DETAILS

Organization & Chair: Prof. Irina Smirnova

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SCIENTIFIC PROGRAM

DAY 1		Wednesday 28/09/2022
Registration from 7:45		Time (UTC+1) Germany
Opening (Irina Smirnova)		08:30
KeyNote 1: Fundamental understanding and modeling of the fabrication process and properties of aerogels A. Rege, P. Gurikov		08:40-09:20
Moderator: Irina Smirnova		
From solvent exchange to supercritical drying: analyzing mass transfer processes during biopolymer aerogel production using 1-D Raman spectroscopy M. P. Dirauf, P.C. Wagner, A. S. Braeuer		09:20-09:40
Pore size estimation using image segmentation in silica aerogels P. Pandit, M. Heyer, B. Milow, A. Rege		09:40-10:00
Understanding Carbon Nanotube - Silica Aerogel composites from molecular simulation P. Maximiano, P. N. Simões		10:00-10:20
Insights into colloidal aerogel structures from diffusion limited mixed aggregation S. Agrawal, M. Kröger, S. Galmarin		10:20-10:40
Coffee Break 10:40-11:10		
Moderator: Pavel Gurikov		
Metal Aerogels and their Applications A. Eychmüller		11:10-11:30
Bimetallic two-dimensional aerogel: Developing a revolutionary material for flexible electronics P. Khavlyuk, V. Shamraienko, A. Mitrofanov, A. Eychmüller		11:30-11:50
PGM-Nanoparticle-Containing Alumina Aerogels for Three-Way Catalyst Application A. M. Anderson, B. A. Bruno, M. K. Carroll, J. Santos, P. Barry		11:50-12:10
Platinum Loaded Indium Oxide Aerogels for Methanol Steam Reforming L. Thoni, N. Köwitsch, M. Armbrüster, A. Eychmüller		12:10-12:30
MTMS Silylated Silica Ionogels as a Thin Film Electrolyte for LiBs F. Koç, N. Gizli		12:30-12:50
Lunch Break and Poster Viewing 12:50-13:50		

Session 1:
Modelling &
Simulation

Session 2:
Aerogels for
Electro-
chemistry and
Catalysts

Moderator: Wim Malfait			
Closed-loop Recyclable Aerogels From Renewable Bioresource C. Wang, Ž. Tomović		13:50-14:10	Session 3: Aerogel & Sustainability
Plastic packaging waste for reinforcement of silica aerogels R. Pinho, A. C.Fonseca, L. Durães		14:10-14:30	
Sustainable Tannin Gels as Metal and Dye Adsorbent for Environmental Applications A. Koopmann, C. R. Ehgartner, N. Hüsing		14:30-14:50	
Scaled-up Process, Morphology Control and Multi-Properties of Aerogels from Various Wastes X. Y. Goh, R. H. Ong, C. J. Goh, W. S. Teo, X. Deng, H. M. Duong		14:50-15:10	
Recoverable Hydrophobic Aerogels for Water Remediation E. G. Sutherland, P. E. Rose, A. Corrias		15:10-15:30	
1) New aerogels address urgent sustainability challenges M. Fricke, D. Weinrich, R. Subrahmanyam	2) ALF – Aerogel Launch Factory B. Milow, I. Grabbe, P. Vöpel	15:30-15:50	
Coffee Break		15:50-16:20	
Poster Speed Presentations (a 90 sec, 1 Slide Poster 1-32)		16:20-17:05	Poster Session-1
Poster Session		17:10-19:00	
Conference Dinner (TUHH Mensa, incl. in registration fee)		19:00-22:00	
End of Day 1			

Registration from 7:45		Time (UTC+1) Germany
Organisational announcements (Irina Smirnova)		08:30
KeyNote 2: Polymer Aerogels: Advanced Porous Materials for Extreme Environments S. Vivod		08:40-09:20
Moderator: Steven Steiner III		
Polyimide-Silica Aerogel-in-aerogel Nanocomposites – Thermo-mechanical Optimization and Spatial Functional Design T. Wu, Z. Kantor, G. Siqueira, Z. Zeng, E. Filimonova, M. Li, D. Sivaraman, A. Bonnin, Z. Mazrouei-Sebdani, G. Nyström, M. M. Koebel, W. J. Malfait, S. Zhao		09:20-09:40
Strategies for Preparing Hydrophobic and High-Strength Polymer Aerogels: Polyureas and Polyimides M. C. Buckwalter*, J. S. Griffin, R. T. Nelson, A. T. Tran, O. Shehadi, K. Asamoah-Addo, S. A. Steiner III		09:40-10:00
Continuous, Roll-to-Roll Manufacturing of High-Strength Polymer Aerogels via Ambient-Pressure Freeze Drying: Commercial Production Has Now Begun! S. A. Steiner III, J. S. Griffin, M. C. Buckwalter*, R. T. Nelson, O. Shehadi, K. P. Asamoah-Addo, A. T. Tran, J. C. Schultz, M. Schneider		10:00-10:20
Multifunctional Thin-Film Composite Polyimide Aerogels with Enhanced Mechanical Flexibility and Controllable Dielectric Properties O. A. Tafreshi, S. Ghaffari-Mosanenzadeh, Z. Saadatnia, C. B. Park, H. E. Naguib		10:20-10:40
Coffee Break 10:40-11:10		
Moderator: Carlos García-González		
From solution to aerogel: study of chitosan coagulation kinetics C. Chartier, C. Pradille, S. Buwalda, H. V. D. Berghe, B. Nottelet, T. Budtova		11:10-11:30
Polyurea-Crosslinked Alginate Aerogels: A New Class of Materials with Diverse Applications P. Paraskevopoulou		11:30-11:50
Starch aerogels and xerogels: exceptional absorption of theophylline and its release kinetics, F. Zou , T. Budtova		11:50-12:10
Cellulose Ether Aerogels for Thermal Insulation Ö. P. Konuk, Z. Ü. Demir, C. Erkey		12:10-12:30
From oral delivery to tissue engineering applications: chitosan aerogels case study M. Pantić, Ž. Knez, Z. Novak		12:30-12:50
Hydrophobic whey protein-based aerogels E. Efraimopoulou, P. Paraskevopoulou, P. Gurikov		12:50-13:10

Session 4:
Aerogels from
Synthetic
Polymers

Session 5:
Aerogels from
Bio-polymers

Lunch Break and Poster Viewing 13:10-14:10

Moderator: Volkmar Steinhagen

3D-printing of aerogels for biomedical applications C. A. García-González, A. Iglesias-Mejuto		14:10-14:30
3D printing nanofibrillated cellulose hybrids with anisotropic properties Y. Nagel, S. Zhao, G. De Freitas Siqueira, M. Lattuada, G. Nyström, W. J. Malfait		14:30-14:50
3D Printing additive-free, gelled nano inks for the rational design of functional aerogels of complex geometry M. Rebber, M. Trommler, H. Sannemüller, M. Jaruszewski, S. König, M. Fröba, D. Koziej		14:50-15:10
Molding Aerogels in Liquids G. Bar, L. Amar, M. Marszewski, A. Bolker, A. Dashti, L. Pilon		15:10-15:30
Metal oxide aerogels directly formed in supercritical CO ₂ using metal carbonyls as precursors I.V. Elmanovich, V.V. Zefirov, M.O. Gallyamov		15:30-15:50
1) Aerobel: manufacturer of innovative insulation technologies via vertical integration S. De Pooter	2) Production of spherical aerogels using compressed CO ₂ N. Mölders, M. Renner, E. Weidner, D. Hintemann, A. Sengespeick, C. Dworatzky, M. Sanner	15:50-16:10

Session 6:
Shaping of
Aerogels

Coffee Break 16:10-16:40

Poster Speed Presentations (a 90 sec, 1 Slide Poster 33-64)	16:40-17:25
Poster Session	17:30-19:00

Poster
Session-2

Free Time/Hamburg visit

End of Day 2

Registration from 7:45		Time (UTC+1) Germany
Organisational announcements (Irina Smirnova)		08:30
Moderator: Stephanie Vivod		
Some comments on the effect of skeletal features on the properties of aerogels A. Rege, L. Ratke, S. Aney, B. Milow		08:30-08:50
Structural Investigations of AuNi-Aerogels J. Kresse, M. Georgi, N. Weiß, R. Hübner, A. Eychmüller		08:50-09:10
Water-based synthesis of polyimide and polyamic acid aerogel monoliths and beads, and their conversion to isomorphous carbons N. Leventis		09:10-09:30
Aerogel density, mechanical properties and thermal conductivity: a closer look at silica and cellulose aerogels D. Sivaraman, S. Iswar, S. Zhao, G. Galmarini, G. Siqueira, G. Nyström, M. Lattuada & W.J. Malfait		09:30-09:50
Setting a direction - Hybride Hydrogels of Porous Organosilicate Nanoparticles and Thermoresponsive pNIPAM for the active directional transport of fluids D. Kollofrath, Y. Krysiak, S. Polarz		09:50-10:10
Coffee Break 10:10-10:30		
Moderator: Zoran Novak		
Universal and versatile polymer coating strategy to aerogelate various nanocrystal building blocks I. Morales, F. Lübkemann, C. Wesemann, N. C. Bigall		10:30-10:50
Coating Strategies for Biopolymer Aerogels B. Schroeter, I. Jung, P. Gurikov, S. Heinrich, I. Smirnova		10:50-11:10
Chemical approaches towards monolithic hydrophobic aerogels and xerogels F. Henn, T. Anklam, R. Tannert		11:10-11:30
Carbon Spherogel Monoliths - Black, Green, Hybrid and Beyond M. Salihovic, A.-K. Koopmann, N. Hüsing, M. S. Elsaesser		11:30-11:50
1) A study on the thermal insulating properties of inorganic-based paint with aerogel powders from various manufacturers H.-H. Park, Y. Kim, T. Kim	2) Handling aspects for aerogels using supercritical drying processes A. Mohs, V. Steinhagen	11:50-12:10

Session 7:
Characteri-
zation of
Aerogels

Session 8:
Modification
of Aerogels

Lunch Break (Sandwich) and Poster Viewing 12:10 - 13:10

Moderator: Irina Smirnova

Improvement of pore properties by the addition of acetonitrile in sodium silicate-based aerogel Y. Kim, H.-H. Park	13:10-13:30
Yttria/Ytterbia Stabilized Zirconia Aerogels and Their Thermal Stabilities H. Guo, J. Stokes, C. Klein, N. Olson, E. J. Young-dohe, F. Hurwitz	13:30-13:50
Mesoporous aerogel constructs for air and oil filtration A. Kulkarni, A. Agrawal, P. Gotad, S. C. Jana,	13:50-14:10
Macro-mesoporous polylactic acid foam-pectin aerogel hybrid monoliths: synthesis, physical properties, and biomedical applications G. Horvat, M. Pantić, D. Cör, Ž. Knez, Z. Novak	14:10-14:30
Ex situ sky: notional atmospheres made of silica aerogel I. Michaloudis	14:30-14:50
Poster Prize and Closing	14:50-15:00

Session 9:
Tailor-made
Aerogels

End of Day 3/Possibility to visit TUHH Labs

COST Action: WG4

17:00 Hybrid

POSTERS

- P01 **Moisture-indicating cellulose aerogels for multiple atmospheric water harvesting cycles driven by solar energy.**
J. Sun, B. An, K. Zhang, M. Xu, Z. Wu, C. Ma, W. Li, S. Liu
-
- P02 **Polyimide aerogel fibers for thermal insulation application.**
M. Li, T Wu, S. Zhao, J. Dong, X. Zhao, Q. Zhang
-
- P03 **On the deformation behavior of cellulose aerogel reinforced polymers.**
M. Schestakow, A. Rege, L. Ratke
-
- P04 **Laplace Pressure water intrusion studies in superhydrophobic silica aerogels.**
A. Venkateswara Rao, G. M. Rajonk
-
- P05 **Synthesis & Characterization of Micro- and Meso-porous Spherical Carbon Aerogel Particles by Emulsion-Gelation Method.**
S. M. K. Mohamed, C. Heinrich, B. Milow
-
- P06 **Microstructural and mechanical properties of cellulose aerogels.**
S. Aney, M. Schestakow, B. Milow, A. Rege
-
- P07 **Chitosan-based aerogel adsorbents for the removal of priority pollutants.**
J. P. Vareda, M. Braga-Gomes, D. Murtinho, A. J. M. Valente, L. Durães
-
- P08 **Electrical conductivity of monolithic and powdered carbon aerogels and their composites.**
J. Schettler, M. Schwan, D. Platzer, B. Milow
-
- P09 **Wood-based cryogels as adsorbents for pharmaceutical pollutants.**
M. B. Agustin, M. Lehtonen, M. Kemell, P. Lahtinen, K. S. Mikkonen
-
- P10 **Kinetic studies on aerogel formation, ageing and ambient pressure drying using an analytical tool box.**
C. Heinrich, R. Tannert, O. Greyz, O. Peters, S. M. K. Mohamed, B. Ignatzi, B. Milow
-
- P11 **Metal Aerogels for Bifunctional Electrocatalysts.**
C. Wang, M. Georgi, A. Eychmüller
-
- P12 **Hydrophobic Organic Aerogels and Xerogels Based on a Phloroglucinol Ether.**
T. Anklam, R. Tannert
-
- P13 **Multi-layered laminated aerogel blankets for military and civilian applications.**
D. Jin Suh, C.-J. Yoo, J.-W. Choi, J. Myeong Ha, and Y. S. Cho
-
- P14 **Advantages of automation and online monitoring of physical conditions during hot super-critical drying of aerogels.**
G. Lazovski, M. Tzadka, R. Sokolovsky, C. Libov, G. Bar, R.Gvishi
-
- P15 **Optically Transparent Silica Aerogels.**
G. Lazovski, C. Libov, R. Gvishi, G. Reichenauer, C. Scherdel

- P16 **Photocatalysts supported on Bacterial Cellulose Aerogels for environmental Applications.**
L. Marchiori, E. Rolim Fonseca, Thais, C. de Almeida da Silva, E. P. F. Neto, S. J.L. Ribeiro
-
- P17 **Surfactant-free synthesis of methyl functionalized silica gels with tuneable micro-structures.**
S. B. Hauser, S. Zhao, C. Hasenfratz, Z. Mazrouei, W. J. Malfait
-
- P18 **Determination of specific surface area of thin aerogel coatings with SAXS.**
C. Scherdel, G. Reichenauer, N. Weiß, N. Gaponik
-
- P19 **Assessing the dust released from commercially relevant inorganic aerogel mats by simulating different occupational exposure scenarios.**
V. Di Battista, C. R.Carrasco, K. Vilsmeier, D. Singh, P. Demokrito, E. Günther, K. Jensen, W. Wohleben
-
- P20 **Unusual Extreme Acoustic Impedance and Sound Transmission Loss Properties of Polyimide Aerogel/Melamine-Formaldehyde Foam Layups: Development of Next-Generation Vibroacoustic Insulation for Rockets.**
K. Asamoah-Addo, J. S. Griffin, S. Vivod, H. Guo, S. Malakooti2, L. Shearer, J. C. Johnston, M. A. Kuczmariski, A. M. McNellis, A. Tran1 and S. A.Steiner III
-
- P21 **Towards Fabrication of Novel PI Aerogels with Superior Moisture Resistance and Flexibility.**
S. Ghaffari-Mosanzadeh, O. A. Tafreshi, N. X. Fang, H. E. Naguib
-
- P22 **Aerogel-lined capillaries for Raman diagnostics in aqueous media.**
A. S. Braeuer, F. Spiske
-
- P23 **Combined Diffusion Limited Cluster Aggregation/Lattice Boltzmann Model for Simulating the Catalytic Behavior of Aerogel Materials.**
A. Cahaly, A. M. Anderson, B. A. Bruno, M. K. Carroll
-
- P24 **Novel Bridged Silica Aerogels with Tunable Properties and Excellent Oil Spill Recovery Performance.**
Z. B. Rejeb, A. Abidli, A. Zaoui, M. Fashandi, H. E. Naguib, C. B. Park
-
- P25 **Harnessing peer-pressure for carbon capture in aerogels.**
D. Momers, Y. Krysiak, S. Polarz
-
- P26 **Long-term performance of monolithic silica aerogel with different hydrophobicities: color rendering and physical properties after accelerated ageing.**
C.V. Fiorini, F. Merli, E. Belloni, M.K. Carroll, A.M. Anderson, C. Buratti
-
- P27 **AeroKinetics: data-driven scale-up of high performance supercritical CO2 drying processes.**
A. Bueno, D. Arigbe, P. Gurikov, I. Smirnova
-
- P28 **SPIROPYRAN-BASED POROUS POLYSILSESQUOXANES WITH ION SENSING PROPERTIES FOR COLORIMETRIC ANALYSIS.**
D. Euchler, N. Hüsing, A. Feinle
-
- P29 **Molecular dynamics simulations of silica aerogels.**
H. Patel, B. Milow, A. Rege

- P30 **Structure vs mechanical properties of MTMS-based aerogel.**
B. Nowak, B. Babiarczyk, N. Borzęcka, D. Lewandowski, J. Gac
-
- P31 **Novel acid-catalyzed sol-gel synthesis route to control the crystallinity and phase formation of highly porous TiO₂ aerogels.**
A. Rose, P. Voepel, B. Milow
-
- P32 **MTMS and VTMS-based aerogel synthesis - phase separation and condensation kinetics.**
N. Borzecka, B. Nowak, A. Pisaerk, J. Gac
-
- P33 **Sound Absorption Properties of Silica Aerogel-Epoxy Composites.**
Z. Mazrouei-Sebdani, O. Palacio, A. V. Pansare, M. Barbezat, W. J. Malfait
-
- P34 **Phase transitions in bio-gels: towards structure/properties control of bio-aerogels and of responsive biomaterials.**
L. Gelas, P. Veres, T. Budtova, P. Gurikov
-
- P35 **Combined Diffusion Limited Cluster Aggregation/Lattice Boltzmann Model for Simulating the Catalytic Behavior of Aerogel Materials.**
A. Cahaly, A. M. Anderson, B. A. Bruno, M. K. Carroll
-
- P36 **Improving the properties of flexible hybrid-silica aerogels: addition of pores for a more lightweight material.**
K. Steffens, D. Bialuschewski, B. Milow
-
- P37 **Impact of the anions in the production of monolithic cellulose aerogels.**
D. Costa, B. Gonçalves, K. Ganesan, B. Milow
-
- P38 **Enhancing flexible hybrid silica aerogels: integrating new functionality through addition of different precursors.**
D. Bialuschewski, K. Steffens, E. Okumus, A. Dzierbinski, P. Voepel, B. Milow
-
- P39 **Diamond-doped silica aerogel for solar geoengineering.**
J. Vukajlovic, J. Wang, I. Forbes, L. Siller
-
- P40 **Development of a continuous process for the production of aerogels to increase energy efficiency.**
E. Dicke, I. Smirnova
-
- P41 **A study on the thermal insulating properties of inorganic-based paint with aerogel powders from various manufacturers.**
H.-H. Park, Y. Kim, T. Kim
-
- P42 **Fluorine doped tin oxide aerogel support with Pt nanocomposites hybrid catalyst for enhanced hydrogen evolution.**
T. Kim, H.-H. Park
-
- P43 **Hybrid Silica Aerogels.**
P. Niemeyer, B. Böttcher, B. Milow
-
- P44 **Porous copper and copper hybrid materials derived from sol-gel templates.**
F. Putz, N. Hüsing

- P45 **Optimizing Drying of Hierarchically Organized Porous Silica Monoliths - Comparison of Ambient Pressure and Supercritical Drying.**
R. Kohns and N. Hüsing
-
- P46 **The adsorptive removal of antibiotics and various oil/organic solvents from aqueous solutions by VTMS derived silica aerogels.**
S. S. Çok, F. Koç, N. Gizli
-
- P47 **Magnetic Field Assisted Synthesis of Cobalt and Cobalt Oxide Nanowire Aerogels for Energy Storage Applications.**
R. L. Calabro, M. O. Hatton, F. W. Zhang, A. S. Zammit, V. M. Lucian, R. J. Wilson, E. Nagelli, C. Yi, J. L. Palmer, K. M. Healy, P. H. Chapman, S. F. Bertolucci, J. A. Maurer, F. J. Burpo
-
- P48 **Mixed oxide aerogels with high performance insulating properties for high temperature space application.**
P. Voepel, M. Heyer, B. Esser, A- Gülhan B. Milow
-
- P49 **Phytosterols loading of salmon gelatin aerogels by CO₂-SC impregnation.**
M. Pępczyńska, L. Calvo, A. Cabañas, J. Enrione
-
- P50 **Preparation of Ag loaded chitosan/gelatin aerogels.**
M. Pępczyńska, J. Nuñez, H. K. Ruiz, E. Pérez, L. Calvo, A. Cabañas
-
- P51 **Scale-up of Aerogel Manufacturing Plant for Industrial Production.**
K. Eckert, E. Dicke, I. Smirnova, A. Kahnt, R. Böhm, J. Suchorzewski, M. Thieme
-
- P52 **Resorcinol-formaldehyde xerogels for loop heat pipe applications.**
F. Henn, A.Hesse, D. Lütz, R. Tannert
-
- P53 **Transparent Cellulose Aerogels from Concentrated Salt Solutions.**
B. Schroeter, S. Holst, P. Gurikov, I. Smirnova
-
- P54 **Conversion of Whey Protein Aerogel Particles into Oleogels: Effect of Oil Type on Structural Features.**
S. Plazzotta, I. Jung, B. Schroeter, R. Subrahmanyam, I.Smirnova, S. Calligaris, P. Gurikov and L. Manzocco
-
- P55 **Adsorption of Organic Components from Fluid Mixtures on Cold Plasma Coated Aerogels in Supercritical Fluid Chromatography: Experiment and Simulation.**
I. Jung, B. Schroeter, P. Gurikov, I. Smirnova
-
- P56 **Plant-proteins aerogels as functional food ingredients: proof of concept in the preparation of low saturated fat spreads**
L. De Berardinis, S. Plazzotta, S. Calligaris, L. Manzocco
-
- P57 **Natural grown Aerogels from Fruits, Vegetables and Mushrooms: Processing and Characterization.**
L. Gibowsky, B. Schroeter, G. Liese, J. Husung, R. Subrahmanyam, I. Smirnova
-
- P58 **Is the structure of biopolymer aerogels uniform?**
A. Hajnal, P. Gurikov

- P59 **Biopolymer-derived carbon aerogels as catalyst support for hydrogen generation cathodes (CarboCAT).**
P.S. Pein, Dr. rer. nat. B. Schroeter, Prof. Dr.-Ing. I. Smirnova, Prof. Dr.-Ing-C. Erkey
-
- P60 **Polyphenolic loaded gelatine-based aerogel: Processing-structure-property relationship.**
H. Gupta, S. McNeil, S. Ranford, M. P. Staiger
-
- P61 **lignin coated alginate aerogel particles.**
R. Altarabeen, B. Schroeter, I. Smirnova
-
- P62 **Doubly cross-linked aerogel reinforced by polyvinylpyrrolidone.**
K. Hoon Min, B. Seok Kim, Y. Qian, S. Eun Shim
-
- P63 **Novel approach for stiff aerogel fabrication.**
B. Seok Kim, K. Hoon Min, Y. Qian, S. Eun Shim
-
- P64 **Hyaluronic acid aerogels via freeze-thaw induced gelation.**
L. Legay, C. Pradille, S. Buwalda, T. Budtova

PARTICIPANTS

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Adam	Dzierbinski	German Aerospace Center
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Dennis	Kollofrath	Leibniz University Hannover
Diogo Manuel	Costa	German Aerospace Center
Dominique	Mooock	Interbran Labs GmbH
Dong Jin	Suh	Korea Institute of Science and Technology
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Emine	YAPICI	Omer Lutfu Ozgul Industrial Chemicals Import-Export & Trade Company
Erik	Dicke	Hamburg University of Technology
Esmanur	KILIÇ	Ege University
Fabian	Henn	German Aerospace Center
Fabian	Zemke	Technical University of Berlin
Fatoş	Koç	Ege University
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