

## Poster List - Aerogel Seminar 2020

Poster Session - Day 1		Wednesday 16/09/2020	
Poster number	Title	Presenting Author	Affiliation
1	Flexible porous aerogel decorated with Ag nanoparticles as an effective SERS substrate for label-free trace explosives detection	Wei Liu	College of Materials Science and Engineering, Nanjing Tech University
2	Synthesis of Nano-clay/PVA aerogels via freeze drying process in a semi-industrial pilot line and its Life Cycle Analysis	Adrián Esteban-Arranz	University of Castilla La Mancha
3	Hierarchically grown ZnFe <sub>2</sub> O <sub>4</sub> -decorated polyaniline-coupled-graphene nanosheets as a novel electrocatalyst for selective detecting p-nitrophenol	Wei Wei	Jiangsu University
4	Aesthetically Enhanced Aerogels for Window Applications	Ann M. Anderson	Mechanical Engineering Department Union College, Schenectady
5	Monolithic Carbon Spherogels Based on Sustainable Precursors	Ann-Kathrin Koopmann	University of Salzburg
6	Intensification of supercritical drying process	Artem Lebedev	Mendeleev University of Chemical Technology of Russia
7	Absolute Insulation: Silica aerogel, thermal insulation from space research	Brice Fiorentino	Enersens SAS
8	Challenges in the Scaled-up Synthesis of Carbon Aerogel Granulate for Foundry Application	Charlotte Heinrich	Deutsches Zentrum für Luft- und Raumfahrt
9	Research on polymer crosslinking modification of silicon-based aerogels	Chen Chu	Department of Materials Science And Engineering, Nanjing Tech University
10	Preparation and organic solvent adsorption of PTFE fabric reinforced GO/SiO <sub>2</sub> aerogel	Wengqian Yan	Department of Materials Science And Engineering, Nanjing Tech University
11	Study on structure regulation and synergistic adsorption and degradation mechanism of N-doped barium titanate strontium aerogel	Xin Ye	Department of Materials Science And Engineering, Nanjing Tech University
12	Spherical amine grafted silica aerogels for CO <sub>2</sub> capture	Xing Jiang	Department of Materials Science And Engineering, Nanjing Tech University
13	Technical devices and further development for the production of aerogel nonwoven	Daniel Wolters	Aachen University
14	Hydrophobization of resorcinol-formaldehyde gels	Fabian Henn	German Aerospace Center
15	Origin of the springback effect in ambient pressure dried silica aerogels	Fabian Zemke	Technische Universität Berlin
16	Hierarchically organized biomimetic architected porous silk fibroin based anisotropic aerogels for thermal energy management	Hajar Maleki	University of Cologne
17	Experimental investigations on the thermal insulation performance of endothermic opacifier (Al <sub>2</sub> O <sub>3</sub> @Al-Si) doped silica aerogel at large temperature differences	Haoqiang Pang	Xi'an Jiaotong University
18	Structural and mechanical properties of hybrid silica aerogel formed using triethoxy(1-phenylethynyl)silane	Haryeong Choi	Yonsei University, Seoul
19	Density and Viscosity of Supercritical CO <sub>2</sub> -Ethanol Mixtures	Hy Dinh	Department of Mechanical Engineering, Tufts University
20	Effect of diverse environmental conditions on the heat insulation and mechanical properties of nanofibrillated cellulose/polymethylsiloxane aerogel	Pragya Gupta	Indian Institute of Technology Roorkee
21	Advanced Fabrication and multi-properties of rubber aerogels from car tire waste	Quoc Ba Thai	National University of Singapore
22	Research on silicon-based non-oxide high temperature ceramic aerogels	Ren Jian	Department of Materials Science And Engineering, Nanjing Tech University
23	The study on zirconia based compound aerogel with controlling the rate of sol-gel reaction	Hae-Noo-Ree Jung	Yonsei University, Seoul
24	Highly microporous carbon aerogel as sulfur host in lithium-sulfur batteries	Jessica Schettler	Deutsches Zentrum für Luft- und Raumfahrt
25	The highest surface area derived via ambient pressure drying -synthesis and characterization of DMF-modified silica aerogel for thermal insulation	Artur Miros	Institute of Mechanized Construction & Rock Mining, Poland
26	Supercritical CO <sub>2</sub> assisted production of porous TiO <sub>2</sub> -HA composites	Philip Jaeger	Clausthal University of Technology
27	New analytical drying system - KEEY	Francisco Ruiz	KEEY Aerogels Industry

Poster Session - Day 2		Thursday 17/09/2020	
Poster number	Title	Presenting Author	Affiliation
28	Book: Handbook of Aerogels. M.A. Aegerter, N. Leventis, M.M. Koebel, S. Steiner III	M.A. Aegerter, N. Leventis, M.M. Koebel, S. Steiner	(Eds.), Springer, 2021
29	Book: The Chemistry and Physics of Aerogels	Lorenz Ratke, Pavel Gurikov	Cambridge University Press, 2021
30	High Strength and High Temperature Resistance TiC Ceramic Aerogel	Jinqiong Tang	Nanjing Tech University
31	Silica-based aerogels/xerogels with nitrogen-containing functional groups for heavy metal adsorption	João P. Vareda	University of Coimbra
32	Sunthru LLC: Fulfilling the Promise of Aerogel Windows	John Costa	Sunthru LLC, Scotia, NY
33	Effect of the microstructure of polypyrrole on the piezoresistivity of flexible CuNWs@PPy aerogels	Jorge Torres	University of Salzburg
34	A promising form-stable phase change material composed of C/SiO <sub>2</sub> aerogel and palmitic acid with large latent heat as short-term thermal insulation	Xiaodong Wu	Nanjing Tech Univeristy
35	Model Development for Carbon Dioxide Supercritical Drying of Aerogel Sheets for Application in Energy Efficient Windows	Joyce An	Massachusetts Institute of Technology
36	Assessing in situ Remediation Efficacy of Advanced Aerogel Adsorbent by Using Model Aquatic Culture of Paramecium caudatum Exposed to Hg(II)	Petra Hermann	University of Debrecen
37	Development, Processing, and Characterization of Flexible Hydrophobic Polyimide Aerogel Thin Films	Justin Griffin	Aerogel Technologies, LLC
38	A design of low-k and stiff silica aerogel for interlayer dielectric in semiconductor device	Keonwook Kang	Yonsei University, Seoul
39	Morphology control of nickel nanoparticles prepared in-situ within silica aerogels produced by novel ambient pressure drying	Lidija Siller	Newcastle University Department of Materials Science And Engineering, Nanjing Tech University
40	Magnetic aerogels for potential targeted anticancer drug delivery and MRI contrast agent	Longjin Huang	TU Dresden
41	Effect of Drying Techniques on Pt/In <sub>2</sub> O <sub>3</sub> Gels for Catalysis	Lukas Thoni	Department of Materials Science And Engineering, Nanjing Tech University
42	Polysaccharide-based nano drug-carrying particle diagnosis and treatment system	Yifan Zhao	University of Coimbra
43	Effect of different aramid fibers as reinforcement of silica-based aerogels for high-temperature thermal insulation materials	Cláudio Almeida	German Aerospace Center
44	The effect of pulverization methods on the microstructure of carbon aerogels	Marina Schwan	Technische Universität Dresden
45	Synthesis and Acidic Post-Treatment of Bimetallic AuCu Aerogels	Maximilian Georgi	
46	In situ epoxy-ring opening polymerization and sol-gel process synthesized hydrophobic TiO <sub>2</sub> -SiO <sub>2</sub> composite aerogels for environmental remediation	Minjae Kim	Yonsei University, Seoul
47	The Effect of Fatty Acid Chain Length on Esterification of Nanocellulose based Aerogels for Oil Spill Clean-Up and its Adsorption Isotherm Study	Monika Chhajed	Indian Institute of Technology, Roorkee
48	Elaboration of cellular automata-based numerical model reflecting condensation kinetics of MTMS-based aerogels	Nina H. Borzęcka	Warsaw University of Technology
49	Towards Rigorous Measurements and Modeling of Supercritical Carbon Dioxide Drying of Aerogels	Hy Dinh	Department of Mechanical Engineering, Tufts University
50	Opacified Fiber Reinforced Silica Aerogels for Three Dimensional Parts	Markus Heyer	German Aerospace Center Department of Materials Science And Engineering, Nanjing Tech University
51	One-pot synthesis of flexible hydrophobic silica-based aerogel: excellent thermal stabilities and durable cyclic mechanical properties	Zhiyang Zhao	Department of Materials Science And Engineering, Nanjing Tech University
52	One-step hydrothermal synthesis of CeO <sub>2</sub> /reduced graphene oxide composite aerogels for low temperature selective catalytic reduction of NOx	Zhu Kunmeng	German Aerospace Center
53	New findings on CO <sub>2</sub> adsorption on chitosan aerogels	Philipp Niemeyer	German Aerospace Center
54	Analytical Setup for Kinetic investigations of Gel Ageing and Ambient Pressure Drying	René Tannert	German Aerospace Center
55	Hydrophobic silica aerogels using phenyl surface modification by co-precursor method	Rushikesh P. Dhavale	Yonsei University, Seoul

Poster Session - Day 3		Friday 18/09/2020	
Poster number	Title	Presenting Author	Affiliation
56	Mechanically Strong Polymer Aerogels as Acoustic Insulation	Ryan Nelson	Aerogel Technologies, LLC
57	Towards a Synthesis of Resorcinol-Formaldehyde Aerogel Microparticles	Seeni Meera Kamal Mohamed	Deutsches Zentrum für Luft- und Raumfahrt
58	Characterization of polyimide stock shape made from powder	Shima Dayarian	University of Strathclyde
59	Titanium doped graphene/carbon aerogels as cathode materials for lithium sulfur batteries	Shuntian Huang	College of Materials Science and Engineering, Nanjing Tech University
60	Bacterial nanocellulose/MoS <sub>2</sub> hybrid aerogels as bifunctional adsorbent/photocatalyst membranes for in-flow water decontamination	Sidney J.L. Ribeiro	Institute of Chemistry- São Paulo State University- UNESP
61	Preparation and adsorption properties of cellulose aerogel	Sisi Shang	Department of Materials Science And Engineering, Nanjing Tech University
62	Effect in photocatalytic methyl orange dye SnO <sub>2</sub> aerogel / rGO nanocomposites	Taehee Kim	Yonsei University, Seoul
63	Preparation and properties of MoSi <sub>2</sub> -based coatings on carbon fiber reinforced carbon-based aerogel	Tao Dai	Department of Materials Science And Engineering, Nanjing Tech University
64	Silica aerogel composites reinforced with reclaimed fibres obtained from textile industry wastes	Teresa Linhares	University of Coimbra
65	Synthesis of multi-functional porous superhydrophobic trioxybenzene cross-linked silica aerogels with improved textural properties	Wang Qi	Yonsei University, Seoul
66	Facile preparation of B4C/C composite aerogel with high specific surface area and low thermal conductivity	Wei Wang	Department of Materials Science And Engineering, Nanjing Tech University
67	Ambient pressure drying of silica aerogel: spring-back or lack thereof, density and thermal conductivity	Wim Malfait	Swiss Federal Laboratories for Materials Science and Technology, Empa, Switzerland
68	Low cost silica aerogel insulation material	Yang Liu	Nanjing Tech University
69	Cr <sup>3+</sup> doped SrTiO <sub>3</sub> aerogel and the test of photocatalytic property	Yanhan Li	College of Materials Science and Engineering, Nanjing Tech University, Department of Materials Science And Engineering, Nanjing Tech University
70	Graphene-based Aerogel Thermal Management Materials Based on Orientation Freezing Technology	Yi Cui	Yonsei University, Seoul
71	Changes in textural properties of waterglass-based silica aerogel through the addition of DCCA	Younghun Kim	Eindhoven University of Technology
72	Development and characterization of silica aerogel using olivine silica as a sustainable precursor	Yuxuan Chen	Nanjing University of Technology
73	Preparation and properties of functionalized cross-linked polyimide aerogel	Zihao Song	University of Castilla La Mancha
74	Utilization and reusability of Hydroxyethyl Cellulose Alumina based aerogels for the removal of spilled oil	Adrián Esteban-Arranz	National and Kapodistrian University of Athens
75	Metal-Doped Biopolymer-Based Aerogels for Catalytic Applications	Grigorios Raptopoulos	D. Mendeleev University of Chemical Technology of Russia
76	Cellulose aerogel porous nanostructure modelling with Bezier curves	Anton Shamaev	D. Mendeleev University of Chemical Technology of Russia
77	3D printing for alginate aerogel obtainment	Pavel Tsygankov	University of Technology Hamburg
78	Adsorption of organic components from fluid mixtures on functionalized mesoporous materials: Experiment and Simulation	Isabella Jung	Nanjing Tech University
79	Research progress on preparation and application of aerogel film materials	Yiming Liu	