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Publications:

**Advanced Wound Care Adhesives with New Functional Properties**
Chiaula, V., Mazurek, P., Nielsen, A. C., Tornøe, J. & Skov, A. L. 2018
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2018

**A thermo-reversible silicone elastomer with remotely controlled self-healing**
Publication: Research - peer-review › Journal article – Annual report year: 2018

**Deeper Insight into the Dielectric Breakdown of Elastomers**
Vaicekauskaite, J., Mazurek, P., Yu, L. & Skov, A. L. 2018
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2018

**Enhancing the electro-mechanical properties of polydimethylsiloxane elastomers through blending with poly(dimethylsiloxane-co-methylphenylsiloxane) copolymers**
Publication: Research - peer-review › Journal article – Annual report year: 2018

**Enhancing the electro-mechanical properties of polydimethylsiloxane elastomers through blending with poly(dimethylsiloxane-co-methylphenylsiloxane) copolymers**
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**Enhancing the electro-mechanical properties of polydimethylsiloxane elastomers through blending with poly(dimethylsiloxane-co-methylphenylsiloxane) copolymers Acknowledgments**
Publication: Research - peer-review › Poster – Annual report year: 2018

**Estimation of phase separation temperatures for polyethersulfone/solvent/non-solvent systems in RTIPS and membrane properties**
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**Glycerol-silicone elastomers as active matrices with controllable release profiles**
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Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Characterization of Polymer Networks by Swelling
Publication: Research › Article in proceedings – Annual report year: 2009

Elongational dynamics of multiarm polystyrene
Publication: Research - peer-review › Journal article – Annual report year: 2009

Linear rheology of cross-linked polypropylene oxide as a pressure sensitive adhesive
Publication: Research - peer-review › Journal article – Annual report year: 2009

New large amplitude oscillatory elongation method applied on elastomeric PDMS networks
Publication: Research › Poster – Annual report year: 2009

Optimization of the synthesis parameters for obtaining PDMS samples suitable for filament stretch rheometer measurements
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Planar Elongation Measurements on Soft Elastomers
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Self-consisting modeling of entangled network strands and dangling ends
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Constitutive equation for polymer networks with phonon fluctuations
Publication: Research - peer-review › Journal article – Annual report year: 2008

Constitutive equation for polymer networks with phonon fluctuations
Elongational Dynamics of Narrow Molar Mass Distribution Linear and Branched Polystyrene Melts
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Measurement of Reversed Extension Flow using the Filament Stretch Rheometer
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Optimering af hudkøbere
Publication: Communication › Journal article – Annual report year: 2008

Physical and chemical properties of dielectric elastomers
Publication: Research - peer-review › Book chapter – Annual report year: 2008

Rheology and Adhesive Performance of Soft Polymeric Networks
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Kinetic investigation of the addition curing vulcanization
Skov, A. L. 2007 ANNUAL TRANSACTIONS OF THE NORDIC RHEOLOGY SOCIETY. Vol. 15
Publication: Research › Article in proceedings – Annual report year: 2007

Dynamic Dilution Effects in Polymeric Networks
Publication: Research - peer-review › Journal article – Annual report year: 2006

Some experimental results for end-linked polydimethylsiloxane network system
Publication: Research - peer-review › Journal article – Annual report year: 2004

Elastic properties of nonstoichiometric reacted PDMS networks
Publication: Research - peer-review › Journal article – Annual report year: 2003

Tailoring Silicone Networks
Publication: Research › Conference abstract in proceedings – Annual report year: 2003

Projects:

Viscoelastic Response of Double Dynamics Polymer Networks under Transient Elongation
Wang, W., Skov, A. L., Hassager, O. & Huang, Q. 01/06/2018 → 31/05/2021
Project: PhD
Coating with inherent sensing functionality based on dielectric elastomers
Krpovic, S., Skov, A. L. & Dam-Johansen, K.
01/02/2018 → 31/01/2021
Project: PhD

Heavy Duty Coatings
01/02/2018 → 31/01/2021
Project: PhD

Structure property relationships in coatings
01/02/2018 → 31/01/2021
Project: PhD

Stretchable conductive elastomers
Shao, J., Daugaard, A. E. & Skov, A. L.
01/01/2018 → 31/12/2020
Project: PhD

Study on self-healing and high-permittivity silicone elastomer/keratin composite materials
Liu, X., Skov, A. L., Nie, Y. & Zhang, S.
01/12/2017 → 30/11/2020
Project: PhD

Functional Polysilazanes for Coating Applications
Kristiansen, T., Skov, A. L., Dam-Johansen, K. & Daugaard, A. E.
01/09/2017 → 31/01/2018
Project: PhD

Advanced wound care adhesives with new functional properties
Chiaula, V., Skov, A. L., Mazurek, P. S., Nielsen, A. C., Tornøe, J. & Tornøe, J.
01/08/2017 → 31/07/2020
Project: PhD

Synthesis and characterization of hydrogels to be used as dielectric elastomers
Vaičiukaitė, J., Skov, A. L. & Yu, L.
15/07/2017 → 14/07/2020
Project: PhD

Antimicrobial Polymers for Catheter Coatings
Andersen, C., Daugaard, A. E., Madsen, N. J. & Skov, A. L.
01/01/2017 → 31/12/2019
Project: PhD

Mechanical and photochemical stabilization of flexible organic solar cells
Ogliani, E., Skov, A. L., Hvilsted, S. & Yu, L.
01/01/2017 → 31/12/2019
Project: PhD

Heat Transfer in dielectric elastomers
Christensen, L. R., Skov, A. L. & Hassager, O.
01/05/2016 → 30/04/2019
Project: PhD
Silicone elastomers with aromatic voltage stabilizers
A Razak, A. H. & Skov, A. L.
01/11/2015 → 01/07/2016
Project

On the correlation between Young’s modulus and melt flow in fiber spinning operations
Wingsstrand, S. L., Hassager, O., Szabo, P., Skov, A. L., Peters, G. W. & van Ruymbeke, E.
15/09/2014 → 13/11/2017
Project: PhD

Enhancement of dielectric permittivity by incorporating PDMS-PEG multiblock copolymers in silicone elastomers
A Razak, A. H., Skov, A. L. & Szabo, P.
01/01/2014 → 30/11/2015
Project

A chemical approach to avoiding electromechanical instabilities in dielectric electroactive polymer films
01/12/2013 → 15/05/2017
Project: PhD

Supramolecular Polymeric Rheology
Shabbir, A., Hassager, O., Skov, A. L., Daugaard, A. E., Creton, C. & Ianniruberto, G.
01/10/2013 → 14/12/2016
Project: PhD

Microcapsules as delivery vehicles
15/09/2013 → 15/03/2017
Project: PhD

Extensional Rheology of Model Polymers
01/04/2013 → 16/06/2016
Project: PhD

Synthesis and Evaluation of Structures Lipids based Polyurethanes for Sensors, Actuators and Generators trough Monte Carlo Simulation
15/01/2013 → 26/05/2016
Project: PhD

Mechanically invisible encapsulations
15/12/2012 → 14/03/2016
Project: PhD

Exploring biochemical process performance limits through topology optimization
01/12/2012 → 16/06/2016
Project: PhD

Novel clay/nanocellulose biocomposite films and coatings in the context of packaging applications
01/10/2012 → 20/09/2016
Project: PhD
A soft and conductive PDMS-PEG block copolymer as a compliant electrode for the dielectric elastomer
A Razak, A. H., Skov, A. L. & Madsen, F. B.
01/08/2012 → 31/03/2016
Project

Monolithic structures and their influence on electromechanical breakdown phenomena
01/08/2012 → 03/08/2015
Project: PhD

Synthesis and development of novel coating components for exterior wood applications based on sustainable resources
01/08/2012 → 22/02/2016
Project: PhD

Development of new materials for dielectric electroactive polymers as actuators and generators
Madsen, F. B., Skov, A. L., Daugaard, A. E., Hvilsted, S., Kill, S., Brook, M. A. & Graz, I. M.
15/08/2011 → 26/11/2014
Project: PhD

Development of stimuli-responsive polymer network
01/08/2011 → 17/12/2014
Project: PhD

Large Scale Processing of dielectric electro active polymers
01/08/2011 → 30/09/2014
Project: PhD

Mechanical characterization methods for dielectric electroactive polymers
01/08/2011 → 26/11/2014
Project: PhD

Loading of micro-cantainers for oral drug delivery
01/02/2011 → 14/05/2014
Project: PhD

New Polymer Architectures for Proton Conducting Fuel Cell Membranes
01/03/2010 → 21/05/2013
Project: PhD

Molecular Rheology of Complex Fluids
Huang, Q., Hassager, O., Rasmussen, H. K., Skov, A. L., Kontogeorgis, G., Ianniruberto, G. & Vlassopoulos, D.
01/02/2010 → 19/04/2013
Project: PhD

Stimuli-Adaptable Materials
01/05/2009 → 21/05/2013
Project: PhD
From Nanostructure to Micro Morphology in Polymers
01/04/2008 → 30/11/2011
Project: PhD

15/07/2007 → 29/09/2010
Project: PhD

Physics of Adhesion
15/11/2006 → 17/03/2010
Project: PhD

Dielektriske elastomer aktuatorer
Skov, A. L., Hassager, O., Sommer-Larsen, P., Keunings, R. & Ndoni, S.
01/08/2001 → 23/08/2004
Project: PhD

Activities:

Material design and processing – hard competition or great synergy?
Skov, A. L. (Lecturer)
19 Sep 2012
Activity: Talks and presentations › Conference presentations