

Open Access Publishing

Doctoral Orientation
Days, June 2022

Katri Seitsonen

Information Specialist

Open Science and ACRIS

Aalto University Research Services



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Why publish Open Access?



1. Comply with:

- ✓ **Aalto University Open Science and Research Policy**

 - *“Aalto University aims to publish all publication types according to open access principles”*

- ✓ **Your funder**

 - *Plan S applies to AoF and Horizon Europe projects in funding calls 2021* →
 - *Always check and discuss with your PI/supervising professor*

2. Boost and increase:


- ✓ **Most studies show that open research is used and cited more than non-OA research [1]**

- ✓ **Collaboration with stakeholders and benefit for the society**

How to publish Open Access?



Gold OA:
Publish in fully OA journal

- ✓ Immediate OA
- ✓ Article Processing Charges (APC) may apply
 - ✓ Aalto's transformative agreements with publishers may cover the APC fees
 - ✓ Plan S : 

Hybrid OA:
Publish OA in subscription-based journal

- ✓ Immediate OA
- ✓ Article Processing Charges (APC) apply
 - ✓ Aalto's transformative agreements with publishers may cover the APC fees
 - ✓ Plan S: only transformative agreements/journals are supported

Green OA:
Self-archiving the final accepted manuscript of your peer-reviewed article

- ✓ Embargos may apply
 - ✓ Free-of-charge
 - ✓ The final accepted manuscript (FAM) of your article parallel published through ACRIS
- ✓ Plan S : no embargos, CC BY license

Plan S: Journal Checker Tool


Open Access terminology

Gold OA - Open Access journals

- Journals whose entire scholarly content is published open access
- No subscription fees for readers/institutions
- Publication fees/APC fees for authors
- Anyone has access to scholarly articles, despite their location or institution
- **Example:**
 - <https://doi.org/10.1038/s41598-022-09613-y>



Machine learning model from a Spanish cohort for prediction of SARS-COV-2 mortality risk and critical patients

[Alejandro Reina Reina](#) , [José M. Barrera](#), [Bernardo Valdivieso](#), [María-Eugenia Gas](#), [Alejandro Maté](#) & [Juan C. Trujillo](#)

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Open access funding and payment

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- **Open access fees/APC fees for authors**
 - OA articles can be accessed by anyone
- **Examples:**
 - <https://doi.org/10.1212/WNL.0000000000200001> (\$39)
 - <https://doi.org/10.1212/WNL.0000000000200005> (OA)

Limbic-Predominant Age-Related TDP-43 Encephalopathy

Medical and Pathologic Factors Associated With Comorbid Hippocampal Sclerosis


Kathryn M. Gauthreaux, Merilee A. Teylan, Yuriko Katsumata, Charles Mock, Jessica E. Culhane, Yen-Chi Chen, Kwun C.G. Chan, David W. Fardo,  Adam J. Dugan,  Matthew D. Cykowski, Gregory A. Jicha, Walter A. Kukull, Peter T. Nelson

First published February 4, 2022, DOI: <https://doi.org/10.1212/WNL.0000000000200001>

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-  Methods
-  Results

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Impact of Small Vessel Disease Progression on Long-term Cognitive and Functional Changes After Stroke

Una Clancy, Stephen D.J. Makin, Caroline A. Hutchison, Vera Cvorovic, Francesca M. Chappell, Maria del C. Valdés Hernández, Eleni Sakka, Fergus P. O'Connell, Joanna M. Wardlaw

First published February 7, 2022, DOI: <https://doi.org/10.1212/WNL.0000000000200005>

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Abstract



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Fault-Tolerant Operation Strategy for Reliability Improvement of a Switched-Capacitor Multilevel Inverter

Publisher: IEEE

Cite This

PDF

Mohammadjavad Hassani ; Erfan Azimi ; Aryorad Khodaparast ; Jafar Adabi ; Edris ... All Authors

102 Full Text Views

Fault-Tolerant Operation Strategy for Reliability Improvement of a Switched-Capacitor Multi-Level Inverter

Mohammadjavad Hassani, Erfan Azimi, Aryorad Khodaparast, Jafar Adabi, Edris Pouresmaeil

Renewable Energies for Power Systems, Department of Electrical Engineering and Automation

Research output: Contribution to journal > Article > Scientific > peer-review

Overview Fingerprint

Abstract

the necessity of using several circuit components in Multi-Level Inverters jeopardizes the reliability of operation. Hence, the aim of this research is to propose a novel single-phase fault-tolerant topology based on the Switched-Capacitor concept to ensure the robustness of the converter in the occurrence of a fault. The proposed single source converter steps up the input voltage seven times with a simple control strategy. Fault Tolerance of the converter is achieved by considering multiple fault cases and providing several redundant switching schemes concerning the type and location of failure. Each switching scheme is designed in a way to ensure the ability to tolerate both single and multiple open and short circuit switch failure, achieving self-balance of the capacitors voltages and the same amount of voltage levels and amplitude in the output. Experimental analysis is carried out, and the results confirm the viability of the proposed inverter under normal and post fault operating mode.



1 Citation (Scopus)

44 Downloads (Pure)



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10.1109/TIE.2021.3135623

ELEC_Hassani_etal_Fault-Tolerant_Operation_Strategy_for_Reliability_improvement_IEEE_TIE_2021

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Hassani, Mohammadjavad ; Azimi, Erfan ; Khodaparast, Aryorad ; Adabi, Jafar; Pouresmaeil, Edris

Fault-Tolerant Operation Strategy for Reliability Improvement of a Switched-Capacitor Multi-Level Inverter

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Document Version Peer reviewed version

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Cellulose (2020) 27:7399–7415
<https://doi.org/10.1007/s10570-020-03312-5>



Bibliographical data

ORIGINAL RESEARCH

Journal layout



Swelling and dissolution kinetics of natural and man-made cellulose fibers in solvent power tuned ionic liquid

Feng Chen  · Daisuke Sawada · Michael Hummel · Herbert Sixta ·
Tatiana Budtova 

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Abstract The kinetics of the dissolution and swelling of different cellulose fibers in the ionic liquid 1-ethyl-3-methylimidazolium acetate ([EMIM][OAc]) was studied by varying solvent power and temperature. Natural fiber, flax, and man-made fibers, Cordenka and Lyocell-type (Ioncell) were used with one Ioncell fiber containing lignin and hemicelluloses. Through the addition of water, the solvent power was modified from very good (neat ionic liquid), to moderate (with 5 wt% water) and weak (15 wt% water). The temperature was varied to correlate the

fibers were characterized by chemical composition, crystallinity, molecular weight distribution and dynamic vapor sorption. It was demonstrated that while the rate of fiber dissolution in neat ionic liquid depends on fiber accessibility and solvent viscosity, the water-induced decreased solvent power dominates the general fiber behavior. Flax appeared to be the most “sensitive” to the solvent power due to its hierarchical structure. The fastest dissolution or swelling was recorded for Ioncell and the slowest for Cordenka.

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- Open Science and ACRIS team makes sure we comply with the embargo policy

1 Swelling and Dissolution Kinetics of Natural and Man-
2 Made Cellulose Fibers in Solvent Power Tuned Ionic
3 Liquid

4

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14 **Abstract:** The kinetics of the dissolution and swelling of different cellulose fibers in the ionic liquid
15 1-ethyl-3-methylimidazolium acetate ([EMIM][OAc]) was studied by varying solvent power and
16 temperature. Natural fiber, flax, and man-made fibers, Cordenka and Lyocell-type (Ioncell) were
17 used with one Ioncell fiber containing lignin and hemicelluloses. Through the addition of water, the
18 solvent power was modified from very good (neat ionic liquid), to moderate (with 5 wt.% water) and
19 weak (15 wt.% water). The temperature was varied to correlate the fiber dissolution rate with the
20 solvent viscosity. All fibers were characterized by chemical composition, crystallinity, molecular
21 weight distribution and dynamic vapor sorption. It was demonstrated that while the rate of fiber

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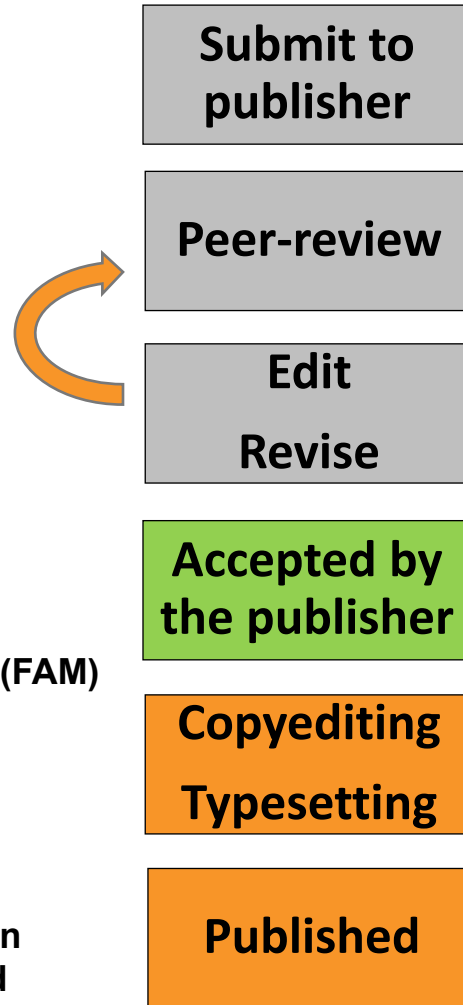
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