

Plan Overview

A Data Management Plan created using DMPTool

Title: Inexpensive aerogel panes for window retrofit

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Inexpensive aerogel panes for window retrofit

Data types and sources

The sections in the template outline are based on Suggested Elements of a DMP (see Links tab) provided by DOE, but DMPs are not required to follow this template. Consult the funding solicitation for guidance about when and how to submit a DMP. For the data types and sources suggested element, a brief, high-level description of the data to be generated or used through the course of the proposed research and which of these are considered digital research data necessary to validate the research findings may be included.

The data generated during the project will be preserved in form of laboratory notebooks for the synthetic part. Materials characterization will generate data via dedicated software. This data will be backed up on a quarterly basis and exported in text format whenever possible to facilitate data access even in case the dedicated software were not any more available.

Content and format

A statement of plans for data and metadata content and format including, where applicable, a description of documentation plans, annotation of relevant software, and the rationale for the selection of appropriate standards. (Existing, accepted community standards should be used where possible. Where community standards are missing or inadequate, the DMP could propose alternate strategies that facilitate sharing, and should advise the sponsoring program of any need to develop or generalize standards.)

The data will be saved when possible in text format to avoid compatibility issues with later versions of software. Data will be backed up on google drive. Google is registered with the US-EU Safe Harbor agreement, which helps ensure that our data protection compliance meets European Union standards for educational institutions, VCU's contract with Google allows for secure cloud storage and automatic backup, storage of most data types, encrypted browser sessions, and control of permissions for all files in Google Drive. (further information on setting up Google Drive folders can be found here: <http://guides.library.vcu.edu/data/GoogleDrive>)

Sharing and preservation

A description of the plans for data sharing and preservation.

We deposit our publications/data in VCU Scholars Compass, the institutional repository for Virginia

Commonwealth University. It uses Digital Commons software, powered by bepress, to host, share and disseminate the intellectual output of VCU's academic and research communities to a global audience. Scholars Compass supports a multi-tiered disaster recovery plan for all of its contents, full-text indexing in major search engines for maximized discoverability of content, and ongoing support through bepress and VCU Libraries. Investigators can consult with the VCU Libraries to facilitate the ingestion of publications/data into Scholars Compass and to ensure that appropriate descriptive metadata standards are in place for all datasets and their supplementary materials. The publications/datasets will be held in Scholars Compass for long-term preservation with unique, persistent URLs.

Protection

A statement of plans, where appropriate and necessary, to protect confidentiality, personal privacy, Personally Identifiable Information, and U.S. national, homeland, and economic security; recognize proprietary interests, business confidential information, and intellectual property rights; and avoid significant negative impact on innovation, and U.S. competitiveness.

The research will not cover patients, human and animal subjects. Confidential data generated by the research will be disclosed to VCU's Office of Technology Transfer and dealt with in accordance with DOE's guidelines regarding proprietary information.

Rationale

A discussion of the rationale or justification for the proposed data management plan including, for example, the potential impact of the data within the immediate field and in other fields, and any broader societal impact.

Data will be archived on Google Drive. Publications will be deposited on Scholar Compass.

Software & Codes

For office and program specific guidance, refer to the Requirements and Guidance from DOE Sponsoring Offices webpage. (See the Link in the Links tab above).

Laboratory books will be digitized and archived on Google Drive.

Data generated by materials characterization techniques will be backed up every 3 months and

stored on Google drive as well.
