



Technische  
Universität  
Braunschweig

Universitätsbibliothek  
Braunschweig



# LeoPARD

Institutional Repository

Lennard Golsch, May 18, 2022

# Motivation

- *Good scientific practice* requires that researchers archive their data for at least ten years
- Responsible handling creates *transparency* and helps to improve the *traceability* and *verifiability* of research
- Journals increasingly require the publication of linked research data as a requirement for final publication



# General

- Platform<sup>1</sup> for publishing or archiving research data
  - Extension of the publication server of the TU Braunschweig
  - **MODS Institutional Repository**<sup>2</sup> (MIR) as software
- Official launch in August 2020
  - 26 research datasets are published
- Continuous development of new functionalities/features (WIP)

powered by  
**<MyCoRe/>**

---

<sup>1</sup><https://leopard.tu-braunschweig.de>

<sup>2</sup><https://www.mycore.de/mir>

# Interfaces/Features

- Authentication/submission via *Single Sign On* (SSO)
- Data upload via a web formular, REST or provide an S3 bucket
- Assignment of a *DOI* as a *persistent identifier*
- Restricted datasets / access via access keys or link (without account)
- CodeMeta<sup>3</sup> as first subject-specific metadata standard

---

<sup>3</sup><https://codemeta.github.io/>

# Work in Progress

- Possibility to contact authors in the long term
- Data import/synchronization from other platforms (e.g. *Cloud-Storage*<sup>4</sup>)
- More subject-specific metadata standards



---

<sup>4</sup><https://cloudstorage.tu-braunschweig.de>

# Example

The screenshot displays a research data record on the University Library Braunschweig website. The record is titled "Size-Dependent Electroluminescence and Current-Voltage Measurements of Blue InGaN/GaN micro-LEDs Down to the Submicron Scale" by Stefan Wolter and Hendrik Spende. It includes a description of the data, a list of files (a ZIP file and a README file), and a citation section. The citation style is set to "DIN 1505-2 (author-date, Deutsch) - stand". The access statistics show 17 downloads and 17 abstract views.

Technische Universität Braunschweig

University Library Braunschweig

Start Search Collections Publish

Research Data / Size-Dependent Electroluminescence and Current-Voltage Measurements of...

Der Wald zwischen Harz und Aller in der Frühen Neuzeit (1550-1... 22 of 26

BER green roof Eddy-Covariance data

Research Data Wed Mar 24 2022 CC BY 4.0 Published

## Size-Dependent Electroluminescence and Current-Voltage Measurements of Blue InGaN/GaN micro-LEDs Down to the Submicron Scale

Stefan Wolter; Hendrik Spende

Besides high-power light-emitting diodes with dimensions in the range of mm, micro-LEDs are increasingly gaining interest today, motivated by the future applications of micro-LEDs in augmented reality displays or for nanometrology and sensor technology. A key aspect of this miniaturization is the influence of the structure size, more precisely the surface region, on the electrical and optical properties of micro-LEDs, as the surface-to-volume ratio increases drastically with decreasing size. With this in mind, this data set was generated to investigate the effect of size on the electro-optical properties. The data set contains current-voltage (IV) and electroluminescence read more »

Files

File Name	Date	Size
Size-dependent_EL_and_IV_measurements.zip	2023-03-24	56.59 MB
Size_Dep_EL_IV_readme.txt	2023-03-24	15.91 kB

Category

Date Created: 14.02.2020 - 01.09.2020  
Date Issued: 24.03.2021  
DOI: 10.24355/ubbs.o84-202103240746-0

Cite

+ add to list Actions

Citation style:  
DIN 1505-2 (author-date, Deutsch) - stand

Wolter, Stefan/Spende, Hendrik (2021): Size-Dependent Electroluminescence and Current-Voltage Measurements of Blue InGaN/GaN micro-LEDs Down to the Submicron Scale. Online unter: [https://publikationsserver.tu-braunschweig.de/receive/jbbbs\\_mods\\_00069424](https://publikationsserver.tu-braunschweig.de/receive/jbbbs_mods_00069424)

10.24355/ubbs.o84-202103240746-0  
copy citation link

Access Statistic

Total:  
Downloads: 17  
Abstractviews: 17

Feedback

# Contact

[l.golsch@tu-braunschweig.de](mailto:l.golsch@tu-braunschweig.de)

[forschungsdaten@tu-braunschweig.de](mailto:forschungsdaten@tu-braunschweig.de)