

Metapodaci

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**(Otvoreni) podaci prikupljeni tokom istraživanja:
prikupljanje, čuvanje, arhiviranje, diseminacija**

Institut tehničkih nauka SANU, 7. februar 2020.

Šta je ovo?

XRD_XRF_MIP

Published: 12 Aug 2019 | **Version 1** | DOI: 10.17632/pnwfrpg2vk.1

Contributor(s): [Marsheal Fisonga](#)

Description of this data

This data contains Mercury Intrusion Porosimetry (MIP), X-ray diffraction (XRD) and X-ray fluorescence (XRF) laboratory results

Experiment data files



MIP.rar

968 KB [Cite](#) [↓](#)



XRD.rar

72 KB [Cite](#) [↓](#)



XRF.rar

23 KB [Cite](#) [↓](#)

Latest version

Version 1

2019-08-12

Published: 2019-08-12

DOI: 10.17632/pnwfrpg2vk.1

Cite this dataset

Fisonga, Marsheal (2019),
"XRD_XRF_MIP", Mendeley
Data, v1

<http://dx.doi.org/10.17632/pnwfrpg2vk.1>

Statistics

Views: **27**

Downloads: **6**

Institutions

Southeast University - Jiulonghu Campus,
University of Zambia School of Mines

Steps to reproduce

This was the data was obtained from laboratory tests

<https://data.mendeley.com/datasets/pnwfrpg2vk/1>

Šta je ovo?

Naslov: loše definisan, nedovoljno precizan	XRD_XRF_MIP
Autor ✓	Marsheal Fisonga
DOI ✓ (dodeljuje se automatski)	10.17632/pnwfrpg2vk.1
Opis/apstrakt: neprecizno i nedovoljno	This data contains Mercury Intrusion Porosimetry (MIP), X-ray diffraction (XRD) and X-ray fluorescence (XRF) laboratory results
Datum: ✓ (dodeljuje se automatski)	2019-08-12
Verzija (dodeljuje se automatski)	Version 1
Format: nije mašinski čitljiv	rar
Napomena (Steps to reproduce): procedure korišćene za dobijanje podataka nisu opisane	This was the data was obtained from laboratory tests
Ključne reči („kategorije“)	X-Ray Diffraction, X-Ray Fluorescence, Microstructural Analysis
Licenca (uslovi pod kojima se sadržaj može koristiti)	CC BY 4.0

Šta nije u redu?

- Naslov ne daje dovoljno informacija
- U metapodacima nije navedeno kada i kako su podaci prikupljeni.
- Nije navedeno s kojim ciljem su prikupljeni (u okviru kog istraživanja).
- Ne znamo da li su podaci objavljeni u nekom radu (nije navedeno).
- Podaci su nejasno i nepotpuno opisani pa ih je teško kontekstualizovati.
- Format nije adekvatan (RAR paketi)

Metapodaci moraju biti detaljni, tako da je već na osnovu informacija koje sadrže jasno o kakvom sadržaju se radi.

Podaci: prvi paket

Sample ID: 007-411
Operator: hyf
Submitter:
File: C:\9500\DATA\590#.SMP

LP Analysis Time: 2019-5-22 9:11:58??
HP Analysis Time: 2019-5-22 9:48:34??
Report Time: 2019-5-22 9:48:34??

Sample Weight: 1.5098 g
Correction Type: None
Show Neg. Int: Yes

CTCB1.pdf	408 195	332 846	2019-05-22 03:23
CTCB1.SMP	8 147	2 100	2019-05-22 01:52
CTCB2.pdf	413 986	327 761	2019-05-22 05:20
CTCB2.SMP	8 151	2 072	2019-05-22 03:43
NSCB2.pdf	409 760	323 925	2019-05-22 07:12
NSCB2.SMP	8 131	2 018	2019-05-22 05:49

Potreban je softver ScrapeMate, koji nije besplatan

ScrapeMate je verovatno korišćen za parsiranje PDF dokumenata sa podacima sa uređaja. Taj podatak nije naveden, a morao bi biti, već u metapodacima.

Summary Report

Penetrometer parameters

Penetrometer: 5 Bulb, 1.131 Stem, Solid
Pen. Constant: 22.285 $\mu\text{L}/\text{pF}$ Pen. Weight: 60.9296 g
Stem Volume: 1.1310 mL Max. Head Pressure: 4.4500 psia
Pen. Volume: 6.6675 mL Assembly Weight: 136.2688 g

Hg Parameters

Adv. Contact Angle: 130.000 degrees Rec. Contact Angle: 130.000 degrees
Hg Surface Tension: 485.000 dynes/cm Hg Density: 13.5335 g/mL

User Parameters

Param 1: N/A Param 2: N/A Param 3: N/A

Low Pressure:

Evacuation Pressure: 90 μmHg
Evacuation Time: 5 mins
Mercury Filling Pressure: 0.53 psia
Equilibration Time: 5 secs

High Pressure:

Equilibration Time: 5 secs

No Blank Correction

(From Pressure 0.10 to 33000.00 psia)

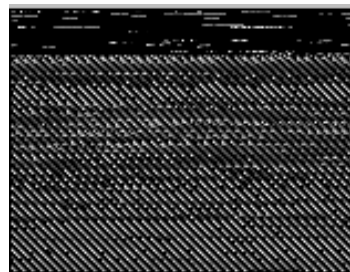
Intrusion Data Summary

Total Intrusion Volume = 0.3252 mL/g
Total Pore Area = 20.244 m^2/g
Median Pore Diameter (Volume) = 208.2 nm
Median Pore Diameter (Area) = 21.6 nm
Average Pore Diameter (4V/A) = 64.3 nm
Bulk Density at 0.53 psia = 1.2455 g/mL
Apparent (skeletal) Density = 2.0933 g/mL
Porosity = 40.5001 %
Stem Volume Used = 45 %

Podaci: drugi paket

Bentonite.raw	18 762	6 186	2019-05-19 01:29
Bentonite.txt	56 006	13 229	2019-05-19 02:16
CTCB1.raw	18 762	4 627	2019-05-19 01:15
CTCB1.txt	55 615	13 004	2019-05-19 02:16
CTCB2.raw	18 762	4 723	2019-05-19 02:12
CTCB2.txt	55 652	12 967	2019-05-19 02:16
KAKOSA-CT.raw	18 762	4 880	2019-05-19 01:58
KAKOSA-CT.txt	55 660	13 236	2019-05-19 02:16

Formati su otvoreni, ali i dalje nigde ne piše šta je ovo.



pan-CT-S90-BS	
2.0	4828
2.02	4828
2.04	4828
2.06	4688
2.08	4545
2.1	4410
2.12	4339
2.14	4297
2.16	4191
2.18	4143
2.2	4121
2.22	4028
2.24	3910
2.26	3833
2.28	3696
2.3	3580
2.32	3567
2.34	3538
2.36	3455

Podaci: treći paket

Bentonite.xls	21 504	4 429	2019-05-27 02:57
Kakosa-CT.xls	23 040	4 712	2019-05-27 02:57
Nanjing Silt.xls	37 888	9 742	2019-06-03 15:57
OPC-52.5N.xls	22 016	4 397	2019-05-27 02:57

xls nije otvoren format. Bolje bi bilo da su podaci sačuvani u csv formatu.

SOUTHEAST UNIVERSITY - CN

2019/5/27 16:53:36
 Calculated by UniQuant
 Thermo Fisher Scientific

BENTO -

PFX-9950714 Rh LIF200 LIF220 Ge111 AX03
 Method : X_UQ
 Kappa List : AnySample
 Shapes & : Teflon
 Calculated as : Oxides
 Case Number : 0 = All known

Measured on : 2019/5/27 15:57:07
 X-ray Path: : Vacuum
 Film Type : None
 Collimator : 29 mm
 Viewed = 29.00 mm
 Viewed Area = 660.52 mm
 Viewed Mass = ##### mg

Reporting Level > 10 ppm and wt% > Est.Err.

Sample Height = 25.00 mm

Compound	Wt%	Est.Error
SiO2	47.25	.34
Al2O3	33.97	.29
K2O	2.95	.09
Fe2O3	1.39	.06
MgO	.401	.020
TiO2	.230	.012
SO3	.121	.0060
Na2O	.0867	.0043
P2O5	.0477	.0024
Rb2O	.0297	.0015
CaO	.0213	.0011
MnO	.0122	.0006
ZrO2	.0061	.0008
Ga2O3	.0056	.0004
PbO	.0046	.0009
Y2O3	.0036	.0010

Element	Wt %	Est.Error
Si	22.09	.16
Al	17.98	.15
K	2.45	.07
Fe	.974	.04
Mg	.242	.012
Ti	.138	.0069
Sx	.0483	.0024
Na	.0643	.0032
Px	.0208	.0010
Rb	.0272	.0014
Ca	.0153	.0008
Mn	.0094	.0005
Zr	.0045	.0006
Ga	.0041	.0003
Pb	.0042	.0009
Y	.0028	.0008

Šta je ovo?

<https://data.mendeley.com/datasets/3pzfyd2cbc/1>

opj je idealan primer neadekvatnog formata: nije otvoren i mašinski čitljiv, ne postoji besplatan softver koji otvara datoteke u ovom formatu; nije ga moguće otvoriti ni uz pomoć starije verzije Origina .

			File folder
Electrical conductivity.opj	39,092	14,748	OPJ File
EPR.opj	156,625	63,377	OPJ File
Fracture toughness.opj	38,949	13,767	OPJ File
FTIR.opj	752,330	329,130	OPJ File
Hardness.opj	37,734	12,628	OPJ File
TGA.opj	265,774	67,221	OPJ File
Thermal conductivity.opj	37,817	14,113	OPJ File
Thermal resistances and Junction temperatures.opj	60,390	17,683	OPJ File
XRD and Raman.opj	840,238	368,275	OPJ File

Data for: Enhanced electrical and thermal conductivities of 3D-SiC(rGO, Gx) PDCs based on polycarbosilane-vinyltriethoxysilane-graphene oxide (PCS-VTES-GO) precursor containing graphene fillers

Published: 8 Nov 2019 | Version 1 | DOI: 10.17632/3pzfyd2cbc.1

Contributor(s): Rongqian Yao

Description of this data

This file includes the original data of FTIR spectra, XRD spectra, Raman spectra, EPR spectra, TGA curves, hardness, fracture toughness, electrical conductivity, thermal conductivity, thermal resistances and junction temperatures of 3D-SiC(rGO, Gx) PDCs.

Experiment data files



Research Data.zip

.zip nije mašinski čitljiv

882 KB



Associated article

This data is associated with the following publication:

Enhanced electrical and thermal conductivities of 3D-SiC(rGO, G x) PDCs based on polycarbosilane-vinyltriethoxysilane-graphene oxide (PCS-VTES-GO) precursor containing graphene fillers



Published in:

Ceramics International

Latest version

Version 1

2019-11-08

Published: 2019-11-08

Podaci su povezani sa publikacijom

Metapodaci nisu dovoljno kvalitetni!

Binary black-hole surrogate waveform catalog

Scott E. Field; Chad R. Galley; Jan S. Hesthaven; Jason Kaye; Manuel Tiglio; Jonathan Blackman; Béla Szilágyi; Mark A. Scheel; Daniel A. Hemberger; Patricia Schmidt; Rory Smith; Christian D. Ott; Michael Boyle; Lawrence E. Kidder; Harald P. Pfeiffer; Vijay Varma

This repository contains all publicly available numerical relativity surrogate data for waveforms produced by the [Spectral Einstein Code](#). The base method for building surrogate models can be found in [Field et al., PRX 4, 031006 \(2014\)](#).

Several numerical relativity surrogate models are currently available in this catalog:


• Current models


1. NRSur7dq4.h5 — This is a surrogate model for binary black hole mergers with generic spins and mass ratios up to 4. A paper describing it can be found at [Varma et al., arxiv:1905.09300](#). It is evaluated with the gwsurrogate Python package, which can be found on [PyPI](#). Instructions for evaluating this surrogate can be found at [this example IPython code](#).
2. NRHybSur3dq8.h5 — This is a surrogate model for binary black hole systems with generic mass ratios but restricted to nonprecessing spins. Before constructing the surrogate, the NR waveforms are hybridized with post-Newtonian waveforms to include the early inspiral. Therefore this model covers the full stellar mass range for ground-based detectors. A paper describing it can be found at [Varma et al., PRD 99, 064045 \(2019\)](#). It is evaluated with the gwsurrogate Python package, which can be found on [PyPI](#). Instructions for evaluating this surrogate can be found in [this example IPython code](#).
3. NRSur7dq4Remnant — This is a surrogate model for mass, spin, and recoil kick velocity of the remnant BH left behind in generically precessing binary black hole mergers, with mass ratios up to 4. A paper describing it can be found at [Varma et al., arxiv:1905.09300](#). It is evaluated with the surfinBH Python package, which can be found on [PyPI](#). Installation instructions and an ipython help notebook can be found in the same link.

• Older models

1. SpEC_q1_10_NoSpin_nu5thDegPoly_exlude_2_0.h5 — A surrogate model for binary black hole mergers with non-spinning black holes. This is described in [Blackman et al., PRL 115, 121102 \(2015\)](#). It is evaluated with the gwsurrogate python package, which can be found on [PyPI](#). Instructions for evaluating this surrogate can be found in tutorials included with the gwsurrogate package and in [this example IPython code](#).
2. NRSur4d2s_FDROM_grid12.h5 and NRSur4d2s_TDROM_grid12.h5 — These are fast frequency-domain and time-domain (respectively) surrogate models for binary black hole mergers where the black holes may be spinning, but the spins are restricted to a parameter subspace which includes some but not all precessing configurations. NRSur4d2s_FDROM_grid12.h5 is the NRSur4d2s_FDROM model described in [Blackman et al., PRD 95, 104023, \(2017\)](#), and NRSur4d2s_TDROM_grid12.h5 is built from the underlying (slower) NRSur4d2s time-domain model in the same way but without the FFTs. These surrogates are also evaluated using

- [Detaljan opis](#)
- [Set podataka je uredno povezan sa publikacijama u kojima je korišćen](#)
- [Različite verzije su uredno povezane](#)

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11,487  downloads

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Publication date:

September 16, 2019

DOI:

[DOI: 10.5281/zenodo.3455886](https://doi.org/10.5281/zenodo.3455886)

Related identifiers:

Supplement to
[10.1103/PhysRevX.4.031006](https://doi.org/10.1103/PhysRevX.4.031006)
[10.1103/PhysRevLett.115.121102](https://doi.org/10.1103/PhysRevLett.115.121102)
[10.1103/PhysRevD.95.104023](https://doi.org/10.1103/PhysRevD.95.104023)
[10.1103/PhysRevD.96.024058](https://doi.org/10.1103/PhysRevD.96.024058)
[arXiv:1809.09125](https://arxiv.org/abs/1809.09125)
[10.1103/PhysRevD.99.064045](https://doi.org/10.1103/PhysRevD.99.064045)
[arXiv:1905.09300](https://arxiv.org/abs/1905.09300)

Communities:

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3. NRSur7dq2.h5 — This is a surrogate model for binary black hole mergers with generic spins. A paper describing it can be found at [Blackman et al., PRD 96, 024058 \(2017\)](#). This surrogate is evaluated through a standalone python package contained in NRSur7dq2.tar.gz, which has simple installation instructions in its README file. A tutorial can be found for evaluating this surrogate in [this example IPython code](#).

These surrogate models useful in your own research please cite the Field et al., PRX (2014) paper as well as the paper describing the specific numerical relativity surrogate model, if available (e.g., the Blackman et al. 2015 paper naming binary black hole coalescences).

Using surrogate models outside of the ranges they were trained upon may give inaccurate results. Please use caution when extrapolating.

Surrogate data available here for non-spinning binary black holes produced in Blackman et al. 2015 contains the mode. However, this mode was not used in the paper. While this surrogate can predict a (2,0) mode, current efficiency simulations may not yet be able to accumulate (non-oscillatory) Christodoulou memory circularly. The surrogate (2,0) mode is founded upon basis SpEC waveforms that have been hybridized with leading r post-Newtonian waveforms. Therefore, the (2,0) mode can be included in the mode's output but should be used with caution. Currently, the default option to evaluate this surrogate (using GWSurrogate) is to exclude all m=0 es.

0 GB)

Name	Size	
GWSurrogate_example.html	297.1 KB	Download
md5ab3c4c8fc58113e451d24f6aa232b8985		
NRHybSur3dq8.h5	212.9 MB	Download
md5b42cd5771497b1db3da14f1e4ee0cccd		
NRHybSur3dq8.html	458.8 KB	Download
md5434410a5bdf8d8df6cea5f03ed3e87eac		
NRSur4d2s_FDROM_grid12.h5	9.9 GB	Download
md5ec88f594c3bba76e1198afc01ee18611		
NRSur4d2s_TDROM_grid12.h5	9.4 GB	Download
md544fb833b6b3a0269c788df181df64		

Dobar primer

Versions

Version 11	
10.5281/zenodo.3455886	Sep 16, 2019
Version 10	Jul 24, 2019
10.5281/zenodo.3348115	
Version 9	May 3, 2019
10.5281/zenodo.2669459	
Version 8	Sep 24, 2018
10.5281/zenodo.2549618	
Version 7	Sep 24, 2018
10.5281/zenodo.1435751	
View all 11 versions	

Cite all versions? You can cite all versions by using the DOI [10.5281/zenodo.1215752](https://doi.org/10.5281/zenodo.1215752). This DOI represents all versions, and will always resolve to the latest one. [Read more.](#)

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Scott E. Field, Chad R. Galley, Jan S. Hesthaven, Jason Kaye, Manuel Tiglio, Jonathan Blackman, ... Vijay Varma. (2019). Binary black-hole surrogate waveform catalog [Data set]. Zenodo. <http://doi.org/10.5281/zenodo.3455886>

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Metadata

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Search

Home
Introduction
Research Data & Dataset
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Data Management & Metadata
Dataset Metadata Checklist
Dataset Metadata Checklist
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Basic Metadata Fields
Controlled Vocabularies and Thesauri
Data Curation
Technical, Rights and Preservation Metadata
Metadata Harvesting
Digital Repositories
Data Repositories

Dataset Metadata Checklist

Metadata and documentation are different things: Documentation is meant to be read by humans; some metadata is designed more for machine processing than human readability. However metadata can be taken as a type of documentation. Create and generate metadata for your research data and datasets in your research lifecycle to preserve the data in the long run.

- 1. Consider what information is needed for the data to be read and interpreted in the future.**
- 2. Understand your funder requirements for data documentation and metadata.** Funder requirements for NSF, GBMF, IMLS, NEH, NIH and NOAA can be found at https://dmptool.org/public_templates.
- 3. Consult available metadata standards in your field.** You may refer to [Common Metadata Standards](#) and [Domain Specific Metadata Standards](#) for details.
- 4. Describe data and datasets created in your research lifecycle, and use software programs and tools to assist in data documentation.** Assign or capture administrative, descriptive, technical, structural and preservation metadata for the data. Some potential information to document:

- **Descriptive metadata**
 - Name of creator of data set
 - Name of author of document
 - Title of document
 - File name
 - Location of file
 - Size of file
- **Structural metadata**
 - File relationships (e.g. child, parent)
- **Technical metadata**
 - Format (e.g. text, SPSS, Stata, Excel, tiff, mpeg, 3D, Java, FITS, CIF)
 - Compression or encoding algorithms
 - Encryption and decryption keys
 - Software (including release number) used to create or update the data
 - Hardware on which the data were created
 - Operating systems in which the data were created
 - Application software in which the data were created

Preporuke

- **Administrative metadata**
 - Information about data creation (e.g. date)
 - Information about subsequent updates, transformation, versioning, summarization
 - Descriptions of migration and replication
 - Information about other events that have affected the files
- **Preservation metadata**
 - File format (e.g. .txt, .pdf, .doc, .rtf, .xls, .xml, .spv, .jpg, .fits)
 - Significant properties
 - Technical environment
 - Fixity information

- 5. Adopt a thesauri in your field or compile a data dictionary for your dataset.**
- 6. Obtain persistent identifiers (e.g. doi) for datasets if possible to ensure data can be found in the future.**

For your full data management plan, please refer to [Digital Curation centre's Checklist for a Data Management Plan](#).

(Source: DMPTool: <https://dmp.cdlib.org/>; Digital Curation: A How-To-Do-It Manual; Digital Curation Centre: <http://www.dcc.ac.uk/>)

Standardi za metapodatke

- <http://www.dcc.ac.uk/resources/subject-areas/general-research-data>
- <http://www.dcc.ac.uk/resources/metadata-standards>
- <https://guides.ucf.edu/metadata/domMetaStandards>
- <https://rdamsc.dcc.ac.uk/>

Index of metadata standards

- [ABCD \(Access to Biological Collection Data\)](#)
 - [ABCDDNA](#)
 - [ABCDEFG \(Access to Biological Collection Databases Extended for Geosciences\)](#)
 - [HISPID \(Herbarium Information Standards and Protocols for Interchange of Data\)](#)
- [AgMES \(Agricultural Metadata Element Set\)](#)
 - [AGRIS Application Profile](#)
- [AVM \(Astronomy Visualization Metadata\)](#)
- [CEDAR Template Model](#)
- [CERIF \(Common European Research Information Format\)](#)
- [CF \(Climate and Forecast\) Metadata Conventions](#)
 - [COARDS Conventions](#)
- [CIF \(Crystallographic Information Framework\)](#)
- [CIM \(Common Information Model\)](#)
- [CSMD \(Core Scientific Metadata Model\)](#)
 - [TIDCC \(Towards an International Data Commons for Crystallography\)](#)
- [Darwin Core](#)
 - [Apple Core](#)
 - [Darwin Core Geospatial Extension](#)
 - [DwC Germplasm](#)
- [Data Package](#)
 - [Tabular Data Package](#)

Materials engineering

Found 3 schemes.



CIF (Crystallographic Information Framework)

A well-established standard file structure for the archiving and distribution of crystallographic information, CIF is in regular use for reporting crystal structure determinations to Acta Crystallographica and other journals.

Sponsored by the International Union of Crystallography, the current standard dates from 1997. As of July 2011, a new version of the CIF standard is under consideration.

CSMD (Core Scientific Metadata Model)

A study-data oriented model, primarily in support of the ICAT data management infrastructure software. The CSMD is designed to support data collected within a large-scale facility's scientific workflow; however the model is also designed to be generic across scientific disciplines.

Sponsored by the Science and Technologies Facilities Council, the latest full specification available is v 4.0, from 2013.

NeXus

NeXus is an international standard for the storage and exchange of neutron, x-ray, and muon experiment data. The structure of NeXus files is extremely flexible, allowing the storage of both simple data sets, such as a single data array and its axes, and highly complex data and their associated metadata, such as measurements on a multi-component instrument or numerical simulations. NeXus is built on top of the container format HDF5,

CIF (Crystallographic Information Framework)

A well-established standard file structure for the archiving and distribution of crystallographic information, CIF is in regular use for reporting crystal structure determinations to Acta Crystallographica and other journals.

Sponsored by the International Union of Crystallography, the current standard dates from 1997. As of July 2011, a new version of the CIF standard is under consideration.

Used in Chemistry Crystallography Materials engineering

Documentation

[View specification](#)

[Visit website](#)

Identifiers

Internal MSC ID `msc:m6`

Tools

• CIF2Cell

A tool to generate the geometrical setup for various electronic structure codes from a CIF file.

• IUCr checkCIF

A tool used to check the integrity and consistency of crystal structure encodings in CIF format.

• Software for CIF

The International Union of Crystallography's list of programs and libraries available for use with CIF files.

PRIMARY CRYSTALLOGRAPHIC DATABASES


These are the major public databases of crystal structure and related data. They are generally maintained by large organisations and are valuable resources for the benefit of science as a whole.

	BCS: Bilbao Crystallographic Server of crystallographic symmetry information
	BMCD: Biological Macromolecule Crystallization Database
	Crystallography Open Database: Open-access database of crystal structures of minerals, excluding biopolymers
	CSD: Cambridge Structural Database of organic and organometallic compounds
	ICSD: Inorganic Crystal Structure Database
	NDB: Nucleic Acid Database
	The Pauling File
	PDB: Protein Data Bank
	PDF: Powder Diffraction File of the International Union of Crystallography



A service of the
International Union of Crystallography

checkCIF reports on the consistency and integrity of crystal structure determinations reported in CIF format.

Please upload your CIF using the form below. 

File name:

No file selected.

Select form of checkCIF report

- HTML
 PDF
 PDF (recommended for CIFs that might take a long time to check)

Select validation type

- Full validation of CIF and structure factors
 Full IUCr publication validation of CIF and structure factors
 Validation of CIF only (no structure factors)

Output Validation Response Form

- Level A alerts only
 Level A and B alerts
 Level A, B and C alerts
 None

<https://www.iucr.org/resources/data/databases>

<http://checkcif.iucr.org/>

<https://www.iucr.org/resources/cif/software>

Zašto „supplementary information“ u časopisima nije optimalno rešenje?

Outline

Highlights

Abstract

Graphical abstract

Keywords

1. Introduction

2. Experimental section


3. Results and discussion

4. Conclusion

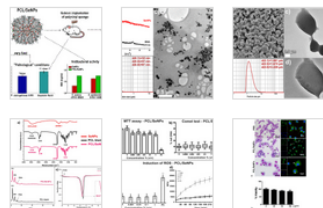
Acknowledgments

Appendix A. Supplementary data

References

Show full outline 

Figures (11)



Show all figures 

Extras (1)

 Supplementary material




Materials Science and Engineering: C

Volume 96, March 2019, Pages 776-789



Poly (ϵ -caprolactone) microspheres for prolonged release of selenium nanoparticles

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Highlights

- Innovative PCL microspheres with incorporated SeNPs were synthesized.
- The degradation and release processes were investigated in five different media.
- The release is triggered in the bacterial environment as well as by foreign body inflammatory reaction to implant.
- PCL/SeNPs can be considered as biocompatible.
- Considerable antibacterial activity against *S. aureus* and *S. epidermidis* was exhibited.

- Dodatni materijal (Supplementary data) je nedostupan
- Prenos prava (na izdavača) odnosi se na članak i njegove sastavne delove. Dodatni materijal ne predstavlja sastavni deo članka.
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Poly (ϵ -caprolactone) microspheres for prolonged release of selenium nanoparticles

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Contents

1. Experimental details for ICP-OES measurements; 1.1. Instrumental and operating conditions; 1.2. Solutions and Reagents; 1.3. Microwave assisted acid digestion; 1.4. Calibration curve

2. Experimental details for biocompatibility investigations of PCL/SeNPs; 2.1. Cell culture; 2.2. Determining cytotoxicity of samples - MTT assay; 2.3. Determination of intracellular reactive oxygen species formation – DCFH-DA assay; 2.4. DNA damage (comet assay)

Figure 1. SEM image of blank PCL microspheres

Figure 2. XRD pattern of commercial PGA used in experiments

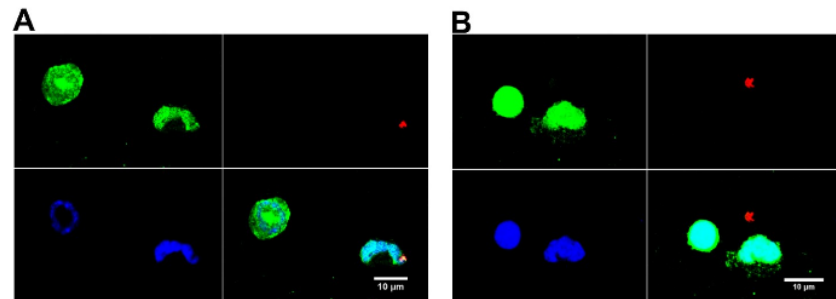


Figure 3. Interaction with PCL/SeNPs *in vivo* by infiltrating cells. PCL/SeNPs (4mg/animal) were injected into sterile polyvinyl sponges implanted subcutaneously. The infiltrating cells were collected from the sponges after 3h and stained to anti-CD45/IgG Alexa 488 (Green) and Syto59 nuclear stain. PCL/SeNPs were detected as brightly scattering particles sized about 1–4 μm after 546nm laser excitation either intracellularly within granulocytes (A) or extracellularly (B). Note that some cells expressed strongly CD45 on the membrane and the cytoplasm, whereas others displayed a weak membrane expression and a strong expression in the granular ER at the nucleus level.

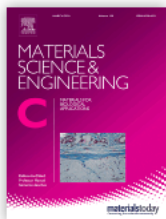
Table 1. Melting temperatures T_m and corresponding enthalpies (heat) of fusion ΔH_f of PCL/SeNPs samples taken at predetermined times from different degradation mediums.

Time intervals (days)	PBS $T_m(^{\circ}\text{C})/\Delta H_f(\text{J/g})$	PBS+lipase $T_m(^{\circ}\text{C})/\Delta H_f(\text{J/g})$	HCl $T_m(^{\circ}\text{C})/\Delta H_f(\text{J/g})$
7	65.0 / 73.52	65.7 / 82.25	65.5 / 80.16
14	65.3 / 76.48	66.0 / 84.76	65.6 / 85.15
21	65.7 / 82.40	66.1 / 89.14	65.6 / 83.38
36	65.5 / 86.34	66.2 / 89.66	65.3 / 86.52
50	66.0 / 86.35	66.2 / 88.73	65.9 / 87.40
108	66.1 / 88.97	66.6 / 94.84	65.8 / 87.70
660	67.1 / 95.55	67.2 / 95.99	67.0 / 95.81

Tabela nije mašinski čitljiva. Da bi podaci bili upotrebljivi, neophodno je parsiranje.

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