



Dariia Chernomorets

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WORK EXPERIENCE

Internship

CNR-ISTEC, National Research Council of Italy, Institute of Science and Technology for Ceramics [06/2022 – Current]

Address: Via Granarolo 64, 48018 Faenza (Italy) - <https://www.istec.cnr.it/>

City: Faenza

Country: Italy

- Preparation of powder mixtures by ball milling;
- Obtaining Y_2O_3 transparent ceramics by dry pressing followed by cold isostatic pressing (CIP) and vacuum sintering;
- Preparation of samples for SEM analysis and evaluation of microstructure information from SEM images;
- Hands-on experience in polishing ceramics;
- Analysis of obtained results;
- Analysis of literary sources;

Engineer of Department of Complex Crystalline Materials

Institute for Single Crystals of NAS of Ukraine [04/2021 – Current]

Address: Nauky Ave. 60, 61072 Kharkiv (Ukraine) - <http://isc.kharkov.ua/>

City: Kharkiv

Country: Ukraine

- Synthesis of Y_2O_3 -MgO nanopowders by the sol-gel method;
- Preparation of powder mixtures by ball milling;
- Obtaining Y_2O_3 , YAG IR-transparent ceramics by the slip casting method;
- Hands-on experience working with the spectrophotometer;
- Preparation of samples for SEM analysis and evaluation of microstructure information from SEM images;
- Hands-on experience working with the viscometer;
- Hands-on skills in determining the size and electrokinetic potential of colloidal particles using the Zetasizer Nano Series ZS Malvern Instruments.
- Research of rheological properties of slips;
- Analysis of obtained results;
- Analysis of literary sources;
- Presentation at the conferences, writing and submission of scientific articles.

Teaching Assistant as Student Practice

V.N. Karazin Kharkiv National University, Chemistry Faculty. [10/2020 – 11/2020]

City: Kharkiv

Country: Ukraine

- conducting laboratory classes in colloidal chemistry;
- survey and evaluation of students.

Teaching as Student Practice

Kharkiv Gymnasium № 6 [09/2018 - 10/2018]

City: Kharkiv

Country: Ukraine

- giving lessons in chemistry;
- preparation of the lesson plan;
- organization and conduct of extracurricular activities.

EDUCATION AND TRAINING

Internship

CNR-ISTEC, National Research Council of Italy, Institute of Science and Technology for Ceramics [06/2022 – Current]

Address: Via Granarolo 64, 48018 Faenza (Italy)

<https://www.istec.cnr.it/>

The stay was covered by a grant from the JECS Trust.

- Preparation and characterisation of transparent Y_2O_3 ceramics;
- Study of the influence of milling parameters on microstructure and optical properties.

Ph.D. student

Institute for Single Crystals of NAS of Ukraine [11/2021 - Current]

Address: Nauky Ave. 60, 61072 Kharkiv (Ukraine)

<http://isc.kharkov.ua/>

Field(s) of study: Material Sciences

Thesis: Obtaining of yttrium aluminum garnet ceramics by the slip casting method

Master's Degree in Chemistry.

V.N. Karazin Kharkiv National University, Chemistry Faculty. [09/2019 - 05/2021]

Address: Kharkiv (Ukraine)

<http://www.univer.kharkov.ua>

Field(s) of study: Chemistry

Final grade : Diploma with Honours (94/100).

Thesis: Protolytic equilibria of imidazole derivatives in water and in micellar solutions of surfactants.

Bachelor's Degree in Chemistry

V.N. Karazin Kharkiv National University, Chemistry Faculty. [09/2015 - 06/2019]

Address: Kharkiv (Ukraine)

<http://www.univer.kharkov.ua>

Field(s) of study: Chemistry

Final grade : 87/100

Thesis: Specific salt effects in micellar solutions of anionic dimeric surfactant.

LANGUAGE SKILLS

Mother tongue(s): **Ukrainian**

Other language(s):

English

Russian

LISTENING B2 READING B2 WRITING B2

LISTENING C2 READING C2 WRITING C1

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

NETWORKS AND MEMBERSHIPS

I.M. Frantsevich Ukrainian Materials Science Society

[2022 - Current]

European Ceramic Society

[2022 - Current]

HONOURS AND AWARDS

2nd place at the Conference-competition of Scientific Works of Young Scientists of SSI of ISC 2022

State Scientific Institution "Institute for Single Crystals" of NAS of Ukraine [2022]

1st place at the XI Ukrainian scientific conference of students and postgraduates "Karazin Chemical Readings – 2019".

V.N. Karazin Kharkiv National University [04/2019]

PUBLICATIONS: JOURNAL ARTICLES

Optimization of rheological properties of slurries for obtaining IR-transparent Y_2O_3 ceramics

D.G. Chernomorets, O.S. Kryzhanovska, N.A. Safronova, S.V. Parkhomenko, A.G. Doroshenko, I.O. Vorona, R.P. Yavetskiy. Optimization of rheological properties of slurries for obtaining IR-transparent Y_2O_3 ceramics, Functional Materials, 29 (2), 2022, 244-251.

<https://doi.org/10.15407/fm29.02.244>

PUBLICATIONS: ABSTRACTS IN BOOKS OF ABSTRACTS

Complex Shaped Composite Ceramics by Slip Casting: The Case of Y_2O_3 –MgO

D.G. Cheronomorets, O.S. Kryzhanovska, N.A. Safronova et al. // The 8th Shaping Conference, 14-16 September 2022: abstr. - Dubendorf, 2022. To be published.

Optimization of Rheological Properties of High Solid Loading Suspensions For Obtaining Y_2O_3 IR-Transparent Ceramics

D.G. Chernomorets, O.S. Kryzhanovska, N.A. Safronova et al. // VIII TH International Samsonov Conference «Materials Science of Refractory Compounds. MSRC-2022», 24-27 May 2022: abst. - Kyiv, 2022. - p. 9.

https://umrs.org.ua/activities/conferences/msrc-2022/boa_2022/

Effect of Green Body Annealing on Optical Properties of Y_2O_3 Ceramics

A. Balabanov, R. Yavetskiy, D. Chernomorets et al. // International Young Scientists Conference on Materials Science and Surface Engineering, 7-9 September 2021: abstr. - Lviv, p. 50. ISBN 978-966-02-9671-8.

https://www.ipm.lviv.ua/msse2021/files/Proceedings_MSSE2021.pdf

Ukrainian-English translated. Evolution of the structural-phase state of Y_2O_3 –MgO nanopowder.

A. Balabanov, I. Vorona, **D. Chernomorets** et al. // III Ukrainian Young Scientists Conference «Modern Materials Science. Materials and Technologies. MMSMT-2021», 25-28 October 2021: abstr. – Kyiv, 2021. – p. 2.

<https://www.imp.kiev.ua/mmsmt/wp-content/uploads/2021/10/MATEPIAJI-III-BCEYKPAIHCBKOI-KOHΦEPEHЦII.pdf>

CONFERENCES AND SEMINARS

The 8th Shaping Conference

[Dubendorf, Switzerland, 14/09/2022 – 16/09/2022]

Abstract: **Complex Shaped Composite Ceramics by Slip Casting: The Case of Y_2O_3 –MgO** / D.G. Chernomorets, O.S. Kryzhanovska, N.A. Safronova et al.

VIIITH International Samsonov Conference "Materials Science of Refractory Compounds. MSRC-2022"

[Kyiv, Ukraine, 24/05/2022 – 27/05/2022]

Abstract: Optimization of Rheological Properties of High Solid Loading Suspensions For Obtaining Y_2O_3 IR-Transparent Ceramics / **D.G. Chernomorets**, O.S. Kryzhanovska, N.A. Safronova et al.

III Ukrainian Young Scientists Conference "Modern Materials Science. Materials and Technologies. MMSMT-2021"

[Kyiv, Ukraine, 25/10/2021 – 28/10/2021]

Abstract "Evolution of the structural-phase state of Y_2O_3 –MgO nanopowder" / A. Balabanov, I. Vorona, **D. Chernomorets** et al.

International Young Scientists Conference on Materials Science and Surface Engineering

[Lviv, Ukraine, 07/09/2021 – 09/09/2021]

Abstract: Effect of Green Body Annealing on Optical Properties of Y_2O_3 Ceramics / A. Balabanov, R. Yavetskiy, **D. Chernomorets** et al.

XI Ukrainian scientific conference of students and postgraduates "Karazin Chemical Readings – 2019"

[Kharkiv, Ukraine. 22/04/2019 – 24/04/2019]

Abstract: Specific salt effects in micellar solutions of anionic dimeric surfactant / **D.G. Chernomorets**, N.O. Vodolazka.

Section: Physical Chemistry.

First-degree diploma.

Conference-competition of Scientific Works of Young Scientists of SSI of ISC 2022

[Kharkiv, Ukraine. 08/02/2022 – 10/02/2022]

DIGITAL SKILLS

My Digital Skills

Microsoft Office (Excel PowerPoint Word) - advanced level / OriginPro (Intermediate) / Google tools (Gmail Drive Google forms etc) / Knowledge of communication platforms (Skype, Zoom)

COMMUNICATION AND INTERPERSONAL SKILLS

Experienced at giving speeches and presentations to large audiences.
Good conversation skills with people of different ages and cultures.

Team work: have worked in research teams.

ORGANIZATION AND LEADERSHIP SKILLS

Skills of organization and planning of working hours;

Student representative [2021-2022];

The leader of the team at the Intellectual Games tournament "What? Where? When?" [2012-2015];

The leader of the team at the Ukrainian Tournament of the Young Biologists [2014].

Aware of the criminal penalties in the case of false declarations, I declare that what is stated in this curriculum vitae corresponds to the truth.

Faenza, 9 September 2022

Dariia Chernomorets

