

Zotero: automatic bibliography within WYSIWYG editors

*Anton Lytvynenko,
Kyiv, Ukraine*

Citation example

...

I shall add a citation after this sentence [1].

...

References

- [1]. V. Bachler, G. Olbrich, F. Neese, K. Wieghardt,
Inorg. Chem. **2002**, *41*, 4179–4193.

“BibTeX-style” bibliography

- Automatic generation of the citation text according to the pattern, e.g.:
 - V. Bachler, G. Olbrich, F. Neese, K. Wieghardt, *Inorg. Chem.* **2002**, *41*, 4179–4193.
or:
- Bachler, V., Olbrich, G., Neese, F. & Wieghardt, K. Theoretical Evidence for the Singlet Diradical Character of Square Planar Nickel Complexes Containing Two o-Semiquinonato Type Ligands. *Inorg. Chem.* **41**, 4179–4193 (2002).
- Automatic reordering and renumbering of the citations due to the order of their first appearance in the text.

Problem:

*how to get the same features in
WYSIWYG Offices?*

Related problems: organizing the collection

- Manual formation of BibTeX items — slow and annoying.
- Scientific journals — usually have an interface to export citation as a single BibTeX reference in text file.
- How about:
 - One-click?
 - Addition by DOI?
 - By PMID?
 - By ISBN?
 - Synchronization?

Zotero

- F/LOSS (AGPL)
- Firefox plugin / Standalone application + Office plugins
- Includes:
 - A set of citation grabbers (by URL, DOI, ISBN, etc.);
 - Organization using: collections, tags, overall search;
 - Synchronization via Zotero's own service.
- Huge library of style definitions via XML-based Citation Style Language (CSL) — and yes, including even 'GOST' massacre
 - <https://www.zotero.org/styles> (one-click installation)
- Intercommunication with BibTeX collections, Mendeley etc.

Zotero: organization of the library

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Article outline Show full outline Abstract Keywords 1. Introduction 2. Experimental 3. Results and discussion Acknowledgments References Figures and tables

Journal of Electroanalytical Chemistry Volume 568, 1 July 2004, Pages 157–165

Catalytic reduction of 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113) by cobalt(I) salen electrogenerated at vitreous carbon cathodes

Jared D. Persinger^a, Jack L. Hayes^b, Lee J. Klein^b, Dennis G. Peters^b, Jonathan A. Karty^b, James P. Reilly^b

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Моя бібліотека

- 2pyInz
- Allgemeine
- CV
- DFT_2pyInz_artricle
- dsser
- Electrochemische dehalog...
- Koordinationspolymere
- Kristallografie
- Magnetochemie
- Patent NT
- Quantum Rechnungen
- Unsere
- Дублікати документів
- Незаповнені документи
- Кошик

Назва Автор

- Catalytic reduction of 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113) by cobalt(I) salen elec... Persinger et al.
- Comparison between heterogeneous and homogeneous electron transfer in p-phenylened... Kapturkiewicz та Jaenicke
- Conversion constants for redox potentials measured versus different reference electrodes I... Pavlishchuk та Addison
- Copper(II) and Nickel(II) Complexes of Dianionic and Tetraanionic Dinucleating Macrocycles Nanda et al.
- Cu(II)-Based MOF Immobilized on Multiwalled Carbon Nanotubes: Synthesis and Applicati... Zhou et al.
- Cyclic voltammetric study of the catalytic behavior of nickel(I) salen electrogenerated at a ... Sweeny та Peters
- Cyclic voltammetry of solid diphenylamine crystals immobilized on an electrode surface a... Inzelt
- Cyclic Voltammetry: Simulation and Analysis of Reaction Mechanisms Gosser
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- Electrocatalytic activity of BasoliteTM F300 metal-organic-framework structures Babu et al.
- Electrochemical activation of freons using electron transfer mediators Koshechko та Pokhodenko
- Electrochemical Analysis of Solids. A Review Grygar et al.
- Electrochemically driven reversible solid state metal exchange processes in polynuclear co... Marken et al.
- Electrochemical studies of organic compounds dissolved in carbon-paste electrodes Schultz та Kuwana
- Electrochemistry and Langmuir trough studies of fullerene C60 and C70 films Jehoulet et al.
- Electrochemistry nanometric patterning of MOF particles: Anisotropic metal electrodeposit... Doménech et al.
- Electrochemistry of Macroyclic Cobalt(III/II) Hexaammines: Electrocatalytic Hydrogen Evolu... Bernhardt та Jones
- Electrochemistry of Metal–Organic Frameworks: A Description from the Voltammetry of ... Doménech et al.

Інформація Примітки Теги Пов'язані

Тип документу: Стаття з журналу

Назва: Catalytic reduction of 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113) by cobalt(I) salen electrogenerated at vitreous carbon cathodes

Автор: Persinger, Jared D.

Автор: Hayes, Jack L.

Автор: Klein, Lee J.

Автор: Peters, Dennis G.

Автор: Karty, Jonathan A.

Автор: Reilly, James P.

Анотація: Cyclic voltammetry, controlled potential

Grabbing citations

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Анотація: Cyclic voltammetry, controlled potential

Citation styles

Fragment of definition of citations in Journal of American Chemical Society

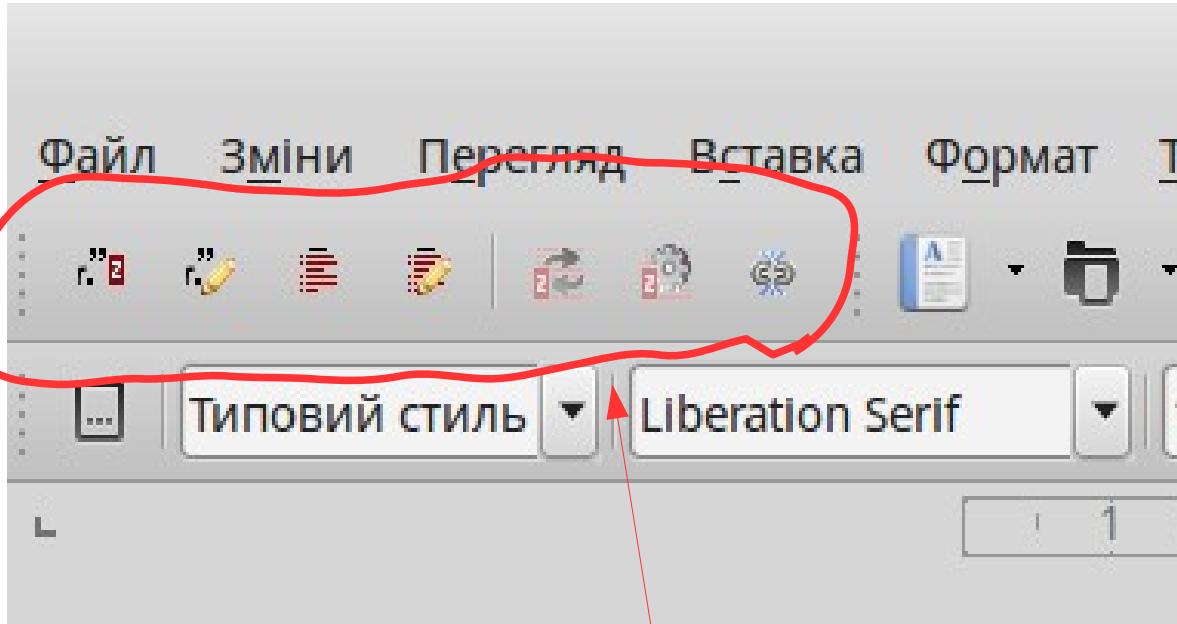
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    <text macro="publisher"/>
    <text macro="full-issued" suffix=","/>
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    <group delimiter=". ">
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      <text variable="genre"/>
    </group>
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    <text macro="issued"/>
    <text macro="volume"/>
    <text macro="pages"/>
  </group>
</else-if>
```

Adaptation of the closest style is possible via a visual editor (search of the closest one basing on example is included in the editor):

<http://editor.citationstyles.org/searchByExample/>

Office plugins

Available: Open/Libre Office, M\$ Office>=2003.



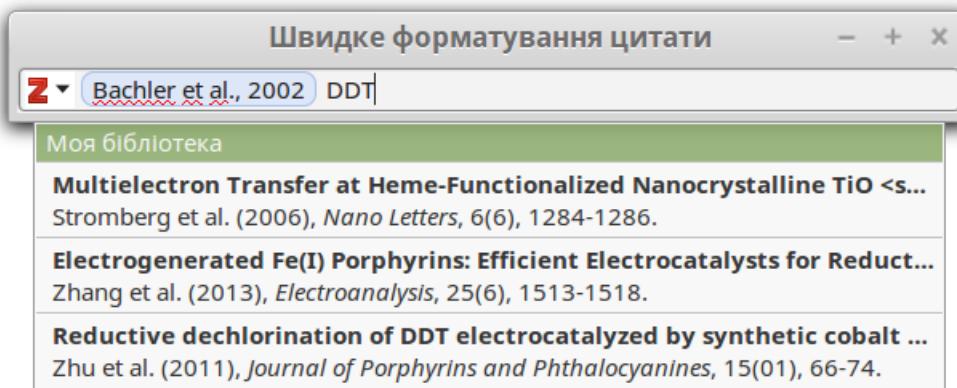
Zotero office plugin adds it's toolbar (main way to access its capabilities)

- Adding citation;
- Edit citation
- Insert bibliography
- Edit bibliography
- Refresh
- Set document preferences
- Remove field codes

Adding citation

“Quick” interface:

I shall add a citation after this sentence {Citation}

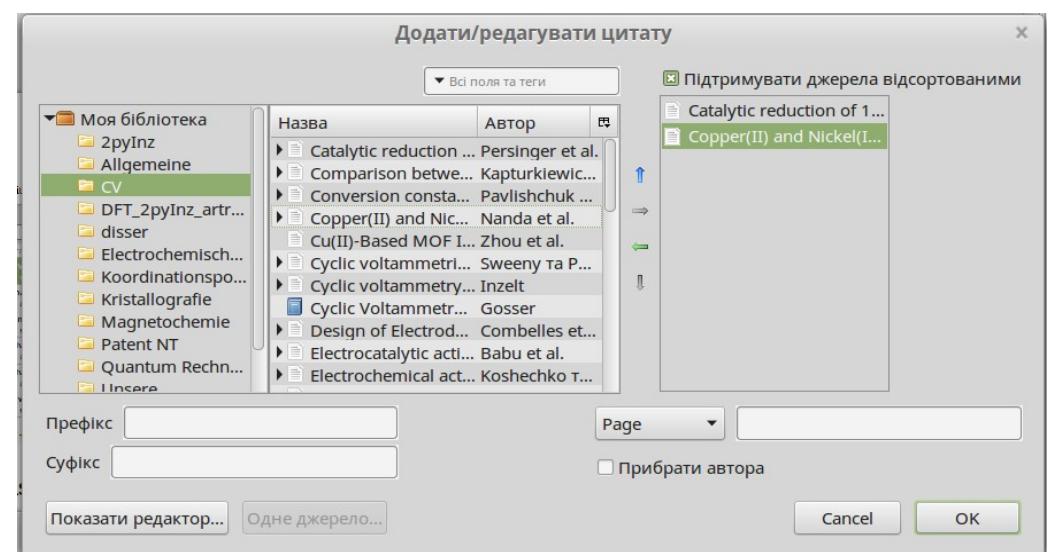
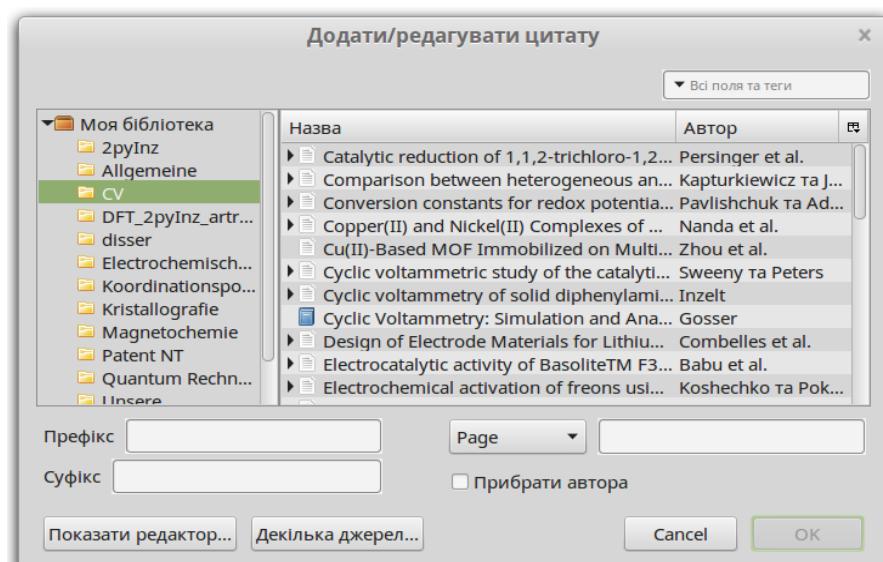


Result:

I shall add a citation after this sentence^[1,2]

- [1] V. Bachler, G. Olbrich, F. Neese, K. Wieghardt, *Inorg. Chem.* **2002**, *41*, 4179–4193.
- [2] W. Zhu, Y. Fang, W. Shen, G. Lu, Y. Zhang, Z. Ou, K. M. Kadish, *J. Porphyr. Phthalocyanines* **2011**, *15*, 66–74.

“Classic” (extended) view:



Document preferences

Are set during first usage of Zotero in the document and may be changed in any time

- A way of citation storage:
 - Reference Marks (OO)/Fields (M\$) — easy copy-paste, no OO/M\$ interchange — *default*.
 - Bookmarks — allow OO/M\$ interchange, but no copy-paste in text.
- Citation style (choose from list of installed)
- Store references in Document or not? (default — yes).

Editing and co-editing

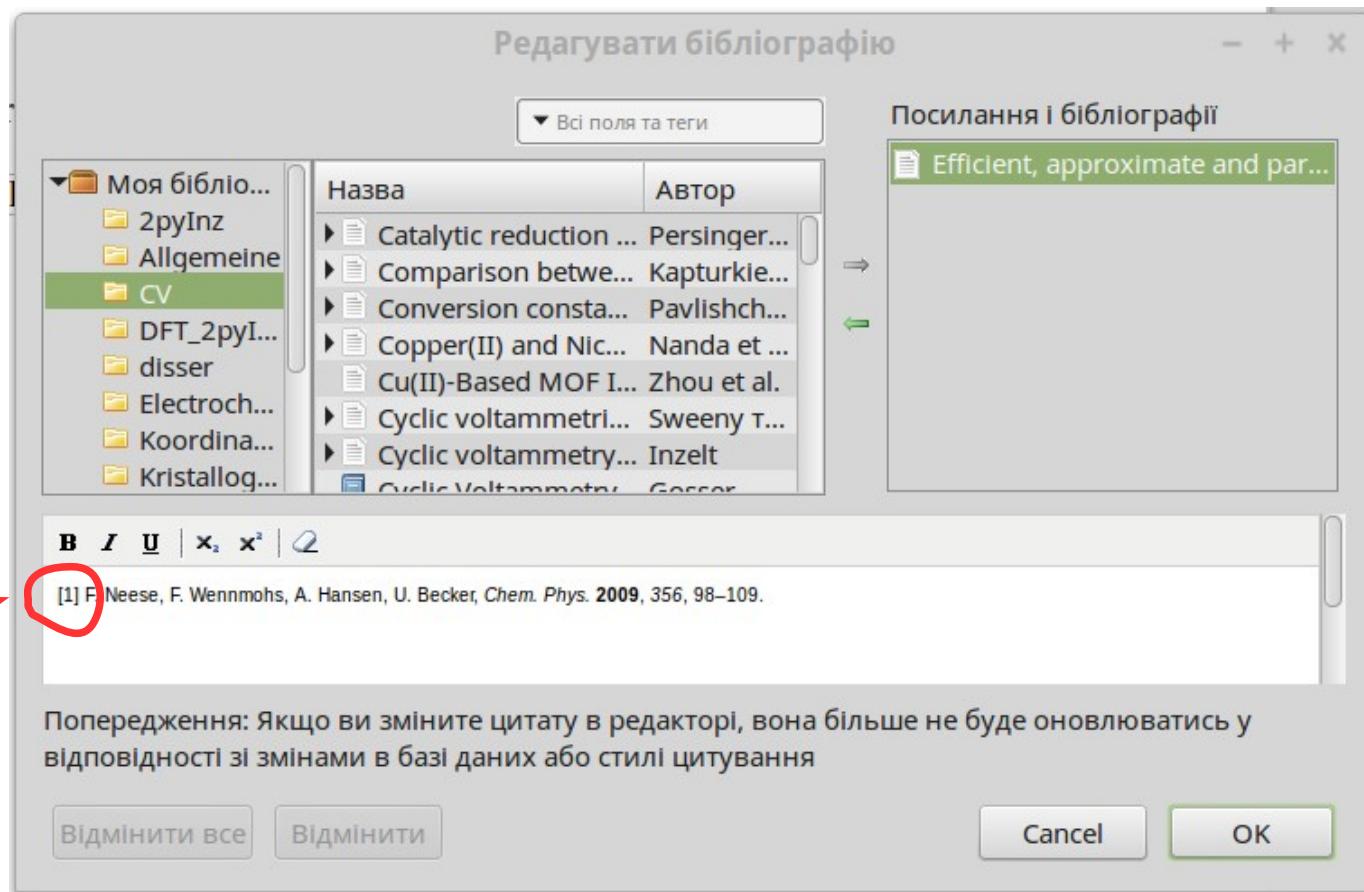
- If citations are in Reference Marks (OO)/Fields (M\$):
 - The citations in text behave as the part of the text (may be copied, cut, deleted, pasted (both within the text or to a new document));
 - The document with Zotero citations may be processed on other computers without Zotero (even on M\$ Office 97 =)), one should just refresh the bibliography after this on the system with Zotero.

Tips and tricks: manual citation editing

- Direct editing is ineffective (changes will be missed after next refresh).
- Direct editing is possible after field code removal.
- Otherwise: internal capabilities.

No automatic update
for edited citations
will be performed by
Zotero.

The number in the
bibliography list
won't be updated
too! (reordering
and renumbering
the in text will be
ok)

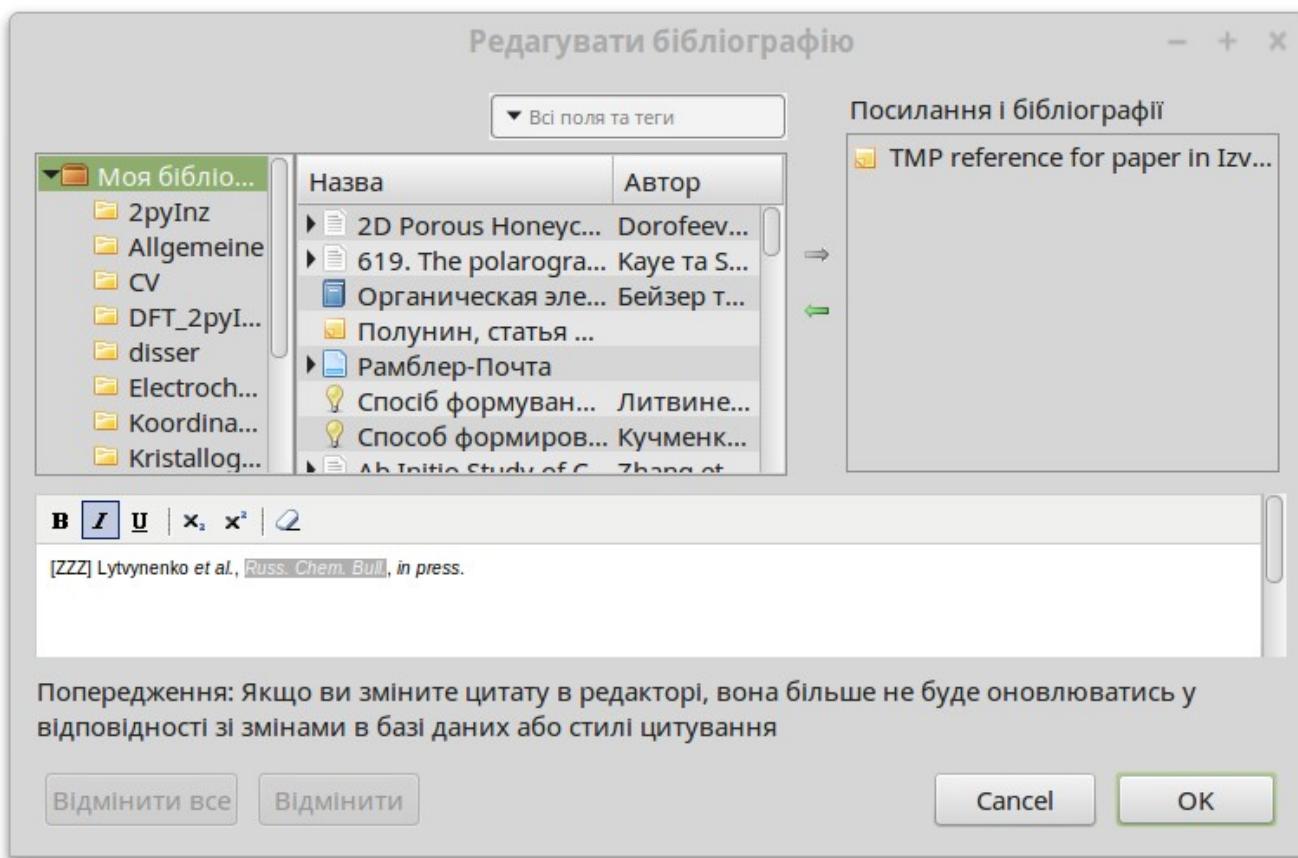


Tips and tricks: manual creation

- Same technics — editing of the citations;
- Dummy object should be used as the original citation (e.g. Zotero note).

I shall add a citation after this sentence [1]

[1] n.d.



Tips and tricks: composite citations

Composite citation looks like that^[1]. Sometimes it is useful, until these perverts don't use something like [1a-b,d]...

[1] (a) V. Bachler, G. Olbrich, F. Neese, K. Wieghardt, *Inorg. Chem.* **2002**, 41, 4179–4193. (b) F. Neese, F. Wennmohs, A. Hansen, U. Becker, *Chem. Phys.* **2009**, 356, 98–109. (c) F. Neese, *Wiley Interdiscip. Rev. Comput. Mol. Sci.* **2012**, 2, 73–78. (d) K. Ray, T. Petrenko, K. Wieghardt, F. Neese, *Dalton Trans.* **2007**, 1552.

- Zotero doesn't support composite citations natively, but there is a way:
 - Use Zotero to generate usual citations;
 - Copy them and edit to make a text for your composite citation;
 - Make a “dummy citation” (as previously shown);
 - Replace its text by your composite citation.
 - Enjoy automatic reordering and renumbering by Zotero.

Conclusions and experience

- Zotero is a F/LOSS software that provides easy and highly automatic way to:
 - collect, organize and synchronize your citation database of scientific documents;
 - prepare (provide formatting, numbering and ordering of items) bibliography for your scientific works (“BibTeX-style”);
- Immodest list of results:

- [1] A. S. Lytvynenko, S. V. Kolotilov, M. A. Kiskin, O. Cador, S. Golhen, G. G. Aleksandrov, A. M. Mishura, V. E. Titov, L. Ouahab, I. L. Eremenko, et al., *Inorg. Chem.* **2014**, 53, 4970–4979.
- [2] A. S. Lytvynenko, R. A. Polunin, M. A. Kiskin, A. M. Mishura, V. E. Titov, S. V. Kolotilov, V. M. Novotortsev, I. L. Eremenko, *Theor. Exp. Chem.* **2015**, 51, 54–61.
- [3] A. S. Lytvynenko, M. A. Kiskin, V. N. Dorofeeva, A. M. Mishura, V. E. Titov, S. V. Kolotilov, I. L. Eremenko, V. M. Novotortsev, *J. Solid State Chem.* **2015**, 223, 122–130.
- [4] A. S. Lytvynenko, S. V. Kolotilov, M. A. Kiskin, I. L. Eremenko, V. M. Novotortsev, *Phys. Chem. Chem. Phys.* **2015**, 17, 5594–5605.
- [5] А. С. Литвиненко, А. М. Мишуря, В. Е. Титов, М. А. Кискин, С. Голхен, О. Кадор, С. В. Колотилов, Л. Уаб, И. Л. Еременко, В. М. Новоторцев, *Известия АН сер. хим.* **2015**, 306–317.