



# **Artem Babaryk**

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## Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

Artem Babaryk. b 1983. M.Sc.(Cum Laude), 2005, Taras Shevchenko National University of Kyiv. He has obtained his PhD working on complex phosphates of niobium and tantalum (under supervision of Prof. Nikolay Slobodyanik), 2009 at Taras Shevchenko National University of Kyiv. Since 2007, a after 2009 - Research Technician and Junior Research Fellow (competitive basis) at the Department of Chemistry. June–September 2010, guest scientist with a research fellowship at Max Planck Institute of Chemical Physic of Solids. In 2013 he performed short post-doctoral stay at CICECO - Aveiro Institute of Materials, University of Aveiro, under supervision of Dr. Luis Mafra. From 2014 - Research Fellow (appointed by Scientific Selection Committee), and from 2017 - Postdoctoral Reseacher at the Unit of Advanced Porous Materials of IMDEA Energy Institute. Published 22 international publications and peer-reviewed conference contributions listed at the SCI (44% of the first quartile Q1) in the field of chemistry and crystallography of molecular and condensed matter. He has been involved in several international research projects in Spain, Poland, France, Germany and USA (2 as PI, 1 as Co-PI).







## General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

Dr. Artem Babaryk (h = 5) has published a total of 25 scientific articles and peer-reviewed conference proceedings, 16 of them as corresponding author and, 11 those belongs to the first quartile (Q1). In particular, Nano Research (8.18), J. Mater. Chem C (IF 6.64), 2 Inorg. Chem. (IF 4.76), Cryst. Growth Des. (4.09), Dalton Trans. (IF 4.03), 3 CrystEngComm (IF 3.85), During the period 2009-2019 1 Ph.D., 2 M.Sc. and 3 B.Sc. have been succesfully graduated under his co-supervision. He has participated in several national, non-european international conference meetings as main contributing author, national, european and non-european international scientific projects (2 as PI), and european and overseas large-scale collective facilities (ILL, ESRF, DESY, APS) as co-proposer or experiment team member.









## Artem Babaryk

Surname(s): Name: ORCID: ScopusID:

Babaryk Artem 0000-0003-3886-3613 15059849400

#### Previous positions and activities

	Employing entity	Professional category	Start date
1	FUNDACIÓN IMDEA ENERGIA	Post-doctoral Reseacher	16/03/2017
2	Taras Shevchenko National University of Kyiv	Research Fellow	01/10/2014
3	Taras Shevchenko National University of Kyiv	Junior Research Fellow	01/12/2009
4	Taras Shevchenko National University of Kyiv	Research Technician	03/12/2007

- Employing entity: FUNDACIÓN IMDEA 1 **ENERGIA**
- Type of entity: R&D Centre

Department: Material Porosos Avanzados, FUNDACIÓN IMDEA ENERGIA City employing entity: Móstoles (Madrid), Community of Madrid, Spain

Professional category: Post-doctoral Reseacher Educational Management (Yes/No): Yes Start-End date: 16/03/2017 - 31/12/2019 Duration: 2 years - 9 months - 15

Type of contract: Temporary employment contract

Performed tasks: IMDEA Energy Institute, Móstoles (Spain) - planning and performing experimental tasks - characterization of the compounds and materials using analytical instruments - writing scientific publications in peer-reviewed journals and presenting results at scientific meetings application for external funding sources - guiding of B. Sc., M. Sc. and Ph.D. students Field of management activity: Spanish Autonomous Region

days

- **2** Employing entity: Taras Shevchenko National Type of entity: University University of Kyiv Professional category: Research Fellow Start-End date: 01/10/2014 - 06/03/2017
- **3 Employing entity:** Taras Shevchenko National Type of entity: University University of Kyiv Professional category: Junior Research Fellow Start-End date: 01/12/2009 - 30/09/2014
- **4 Employing entity:** Taras Shevchenko National Type of entity: University University of Kyiv Professional category: Research Technician Start-End date: 03/12/2007 - 30/11/2009







## Education

### **University education**

### 1st and 2nd cycle studies and pre-Bologna degrees

University degree: Higher degree Name of qualification: Master of Science Degree awarding entity: Taras Shevchenko National Type of entity: University University of Kyiv Date of qualification: 24/06/2005

#### **Doctorates**

Doctorate programme: Doctor of Philosophy (Candidate of Sciences)Degree awarding entity: Supreme CertifyingType of entity: State agencyComission of UkraineDate of degree: 27/05/2009

#### Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
Spanish	B1	B1	B1	B1	B1
English	B2	B2	B2	B2	B2

## **Teaching experience**

### Experience supervising doctoral thesis and/or final year projects

Project title: iseño y síntesis de semiconductores opticamente activados en halogenuros de bismuto (III) para aplicaciones en energias sostenibles Type of project: End of course project Co-director of thesis: Artem Babaryk; Patricia Horcajada; David Ávila Brande Entity: Universidad Complutense de Madrid City of entity: Madrid, Community of Madrid, Spain Student: Jorge Muñoz Nieto Identify key words: Materials Date of reading: 13/06/2019

Project title: Diseño y síntesis de semiconductores ópticamente activos basados en halogenuros de bismuto (III) para aplicaciones en energía sostenible
 Type of project: End of course project

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Co-director of thesis: Artem Babaryk; Particia Horcajada; David Ávila Brande Entity: Universidad Complutense de Madrid Type of entity: University City of entity: Madrid, Community of Madrid, Spain Student: Jaime Cuesta Aguirre Date of reading: 21/06/2018

- **3** Project title: Synthesis and semiconducting group of AB2O3[XO4]2 (A = Sr, Ba; B = Nb, Ta; X = P, V) Type of project: End of course project Co-director of thesis: Artem Babaryk; Nikolay Slobodyanik Entity: Taras Shevchenko National University of Kyiv Type of entity: University City of entity: Kyiv, Ukraine Student: Natalia Soloviova Obtained qualification: Master of Sciences Identify key words: Inorganic chemistry Date of reading: 18/06/2015 European doctorate: 22/06/2015 Date of award: 22/06/2015
- 4 Project title: Wide band gap phosphate of Na6TiM7O15(PO4)5 (M =Nb, Ta) composition Type of project: End of course project Co-director of thesis: Nikolay Slobodyanik; Artem Babaryk Entity: Taras shevchenko National University of Kyiv Type of entity: University City of entity: Kyiv, Ukraine Student: Igor Birskii Obtained qualification: Bachelor of Sciences Identify key words: Inorganic chemistry Date of reading: 11/06/2015 European doctorate: 22/06/2015 Date of award: 22/06/2015

5 **Project title:** Tantalum-containing phosphate with structures of monophosphate tungsten bronzes Type of project: End of course project Co-director of thesis: Artem Babaryk; Nikolay Slobodyanik Entity: Taras Shevchenko National University of Kyiv Type of entity: University City of entity: Kyiv, Ukraine Student: Olena Doroshenko Obtained qualification: Master of Sciences Identify key words: Inorganic chemistry Date of reading: 16/05/2012 European doctorate: 25/06/2012 Date of award: 25/06/2012

6 Project title: Synthesis, structure and properties of framework complex oxides of niobium and tantalum Type of project: Doctoral thesis **Co-director of thesis:** Nikolay Slobodyanik; Artem Babaryk Entity: Taras Shevchenko National University of Kyiv City of entity: Kyiv, Ukraine Student: levgen Odynets Obtained qualification: doctor of Philosophy (Candidate of Sciences) Identify key words: Inorganic chemistry Date of reading: 20/10/2011







European doctorate: 20/01/2012 Date of award: 20/01/2012

## Scientific and technological experience

## Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

1 Name of the project: Materiales, Dispositivos y Tecnologías para el Desarrollo de la Industria Fotovoltaica Entity where project took place: FUNDACIÓN IMDEA ENERGIA City of entity: Móstoles, Madrid, Community of Madrid, Spain Name principal investigator (PI, Co-PI....): Antonio Martí Vega; Ignacio Antón Hernández; Carlos Algora del Valle; Luis Navarte Fernández; Enrique San Andés Serrano; Jose María Ripalda Cobián; Isabel Rodríguez Fernández; Ignacio Tobías Galicia; Artem Babaryk Start-End date: 01/01/2019 - 31/12/2022 Total amount: 943.850 €

2 Name of the project: Design of Lead-Free Halide Perovskite-Based Nanocomposites For Solar Energy Conversion And Optical Applications Entity where project took place: FUNDACIÓN IMDEA ENERGIA City of entity: Mostoles, Community of Madrid, Spain Nº of researchers: 1 Start-End date: 16/03/2017 - 29/12/2017 Total amount: 33.065,38 €

**3 Name of the project:** Materiales funcionales: diseño, síntesis y caracterizacion de solidos con interes estrategico

Geographical area: National Degree of contribution: Researcher Entity where project took place: University of Type of entity: University Oviedo City of entity: Oviedo, Principality of Asturias, Spain Name principal investigator (PI, Co-PI....): Santiago Garcia-Granda; Jose Ruben Garcia Meñendez N° of researchers: 23 Start-End date: 01/01/2014 - 31/01/2017 Total amount: 332.626,53 €

Name of the project: Patterns of Inorganic Oxides and Salts Based on Oxoanions
 Entity where project took place: Taras Shevchenko Type of entity: University National University of Kyiv
 City of entity: Kyiv, Ukraine
 N° of researchers: 4
 Funding entity or bodies:
 The International Centre for Diffraction Data
 Type of entity: R&D Centre
 City funding entity: Newtown Square, United States of America

Start-End date: 01/10/2014 - 30/09/2015 Total amount: 4.700 €







5 Name of the project: Complex Inorganic Salts Based on Tetrahedrally-coordinated Oxoanions Entity where project took place: Taras Shevchenko Type of entity: University National University of Kyiv City of entity: Kyiv, Ukraine Name principal investigator (PI, Co-PI....): Artem Babaryk Nº of researchers: 4 Funding entity or bodies: The International Centre for Diffraction Data Type of entity: R&D Centre City funding entity: Newtown Square, United States of America

Start-End date: 01/04/2012 - 31/03/2013 Total amount: 880 €

## Scientific and technological activities

## Scientific production

Publications, scientific and technical documents

- Rim Jaballi; Dhieb Atoui; Wassim Maalej; Artem Babaryk; Patricia Horcajada; Ridha Ben Salem; Zakaria Elaoud. A new mononuclear nickel complex with 5,5'-dimethyl-2,2'-bipyridine: Synthesis, structural investigation and catalytic properties. Journal of Molecular Structure. 1219, pp. 128572. Elsevier B.V., 05/11/2020. Type of production: Scientific paper Format: Journal Corresponding author: No
- 2 Pablo Salcedo-Abraira; Sérgio Vilela; Artem Babaryk; María Cabrero-Antonino; Pedro Gregorio; Fabrice Salles; Sergio Navalón; Hermenegildo García; Patricia Horcajada. Nickel phosphonate MOF as efficient water splitting photocatalyst. Nano Research. 14, pp. 450 - 457. Springer Nature Switzerland AG, 21/09/2020. Type of production: Scientific paper Format: Journal Corresponding author: Yes
- **3** Artem Babaryk; Mohamed Haouas; Olena Khaynakova; Erik Elkaïm; Patricia Horcajada. Bis-3,5-Diamino-1,2,4-Triazolyl-1,2,4,5-Tetrazine: From Insensitive High Energy Density Materials to Small Molecule Organic Semiconductors. Crystal Growth & Design. 20 - 10, pp. 6510 - 6518. American Chemical Society, 25/08/2020. Type of production: Scientific paper

Corresponding author: Yes

Format: Journal

- 4 Artem Babaryk; Oscar Contreras Almengor; María Cabrero-Antonio; Sergio Navalón; Hermenegildo García; Patricia Horcajada. A Semiconducting Bi2O2(C4O4) Coordination Polymer Showing a Photoelectric Response. Inorganic Chemistry. 59 - 6, pp. 3406 - 3416. American Chemical Society, 20/02/2020. Type of production: Scientific paper Format: Journal Corresponding author: Yes
- 5 levgen Odynets; Sergiy Khainakov; Santiago Garcia-Granda; Roman Gumeniuk; Matthias Zschornak; Natalia Soloviova; Mykola Slobodyanik; Patricia Horcajada; Artem Babaryk. The crystal structure of visible light absorbing piezoelectric semiconductor SrNb2V2O11 revisited: High-resolution X-ray diffraction, vibrational spectroscopy and computational study. Journal of Materials Chemistry C. 7 - 18, pp. 5497 - 5505. Royal Society of Chemistry, 18/04/2019.







Type of production: Scientific paper Corresponding author: Yes Format: Journal

6 Sérgio Vilela; Artem Babaryk; Rim Jaballi; Fabrice Salles; Marta Mosquera; Zakaria Elaoud; Stijn Van Cleuvenbergen; Thierry Verbiest; Patricia Horcajada. A Nonlinear Optically Active Bismuth–Camphorate Coordination Polymer. European Journal of Inorganic Chemistry. 2018 - 20-21, pp. 2437 - 2443. WILEY?VCH Verlag GmbH & Co. KGaA, 16/04/2018.
 Type of production: Scientific paper Format: Journal

Type of production: Scientific paper Corresponding author: No

Robert Paria Sena; Artem Babaryk; Sergei Khainakov; Santiago Garcia-Granda; Nikolay Slobodyanik; Gustav Van Tendeloo; Artem Abakumov; Joke Hadermann. A pseudo-tetragonal tungsten bronze superstructure: A combined solution of the crystal structure of K6.4(Nb,Ta)36.3O94 with advanced transmission electron microscopy and neutron diffraction. Dalton Transactions. 45 - 3, pp. 973 - 979. The Royal Chemical Society, 2016.
 Type of production: Scientific paper Format: Journal
 Corresponding author: Yes

8 Mariana Sardo; Sergio Santos; Artem Babaryk; Concepción Lopez; Ibon Alkorta; Jose Elguero; Rosa Claramunt; Luis Mafra. Diazole-based powdered cocrystal featuring a helical hydrogenbonded network: Structure determination from PXRD, solid-state NMR and computer modeling. Solid State Nuclear Magnetic Resonance. 65, pp. 49 - 63. Elsevier B.V., 2015.
 Type of production: Scientific paper Format: Journal

Type of production: Scientific paper Corresponding author: Yes

**9** Artem Babaryk; levgen Odynets; Sergei Khainakov; Santiago Garcia-Granda; Nikolay Slobodyanik. Polyanionic identity of Ca2Zn2(V3O10)(VO4) photocatalyst manifested by X-ray powder diffraction and periodic boundary density functional theory calculations. CrystEngComm. 17 - 40, pp. 7772 - 7777. The Royal Chemical Society, 2015.

Type of production: Scientific paper Corresponding author: No Format: Journal

Jolanta Jaciubek-Rosi?ska; Aleksander Kufelnicki; Stefania Tomyn; Artem Babaryk; Jan Jaszczak; Cecylia Wardak; Matti Haukka; Igor Fritsky. Synthesis, solid state and solution studies of zinc(II) complexes with 2-hydroxyiminopropanoic acid (HPA). Polyhedron. 95 - 27, pp. 40 - 44. Elsevier B.V., 2015.
 Type of production: Scientific paper Format: Journal

Corresponding author: Yes

Artem Babaryk; levgen Odynets; Sergei Khainakov; Nikolay Slobodyanik. Synthesis and X-ray powder diffraction data of Ba2.64Ta11.25O30.81. Powder Diffraction. 29 - 4, pp. 385 - 388. Cambridge University Press, 2014.
 Type of production: Scientific paper Format: Journal Corresponding author: No

- Ganna Senchyk; Andrey Lysenko; Artem Babaryk; Eduard Rusanov; Harald Krautscheid; Patrícia Neves; Anabela Valente; Isabel Gonçalves; Karl Krämer; Shi-Xia Liu; Silvio Decurtins; Konstantin Domasevitch. Triazolyl-based copper-molybdate hybrids: From composition space diagram to magnetism and catalytic performance. Inorganic Chemistry. 53 19, pp. 10112 10121. The American Chemical Society, 2014.
   Type of production: Scientific paper Format: Journal Corresponding author: No
- **13** Artem Babaryk; levgen Odynets; Sergei Khainakov; Nikolay Slodobyanik; Santiago Garcia-Granda. A wide band gap semiconductor synthesized in molybdate flux medium. CrystEngComm. 15 27, pp. 5539 5544. The Royal Chemical Society, 2013.

Type of production: Scientific paper

Format: Journal







#### Corresponding author: No

14 Artem Babaryk; Aleksandra Kozachkova; Nataliya Tsaryk; Anatoli Dudko; Vasyl Pekhnyo. Binary salt of a palladium(II) complex with (phosphono-methyl)phosphonic (medronic) acid comprising handbell-like [Pd{-CH2(PO3)2}]3 units. Acta Crystallographica Section C: Crystal Structure Communications. 68 - 9, pp. m242 - m245. IUCr, 2012.

Type of production: Scientific paper Corresponding author: No Format: Journal

**15** Artem Babaryk; levgen Odynets; Nikolay Slobodyanik; Vyacheslav Baumer; Sergei Khainakov. Structure-driven mixed-site borate-phosphate K5Ta8BP4O34: Synthesis, structural, spectroscopic and theoretical study. CrystEngComm. 14 - 15, pp. 5071 - 5077. 2012.

Type of production: Scientific paper Corresponding author: No Format: Journal

16 levgen Odynets; Artem Babaryk; Vyacheslav Baumer; Nikolay Slobodyanik; Oleg Shishkin. Synthetic, structural, and spectroscopic investigations of K3Nb8O21-type complex oxides K3MTa7O21 (M = Ti, Zr). Zeitschrift fur Anorganische und Allgemeine Chemie. 637 - 11, pp. 1511 - 1515. Wiley-VCH Verlag GmbH & Co. KGaA, 2011.
 Type of production: Scientific paper Format: Journal Corresponding author: No

- Artem Babaryk; Volodymyr Bon; Igor Zatovsky; Nikolay Slobodyanik; Vasyl Pekhnyo. Reinvestigation of KMg1/3Nb2/3OPO4. Acta Crystallographica Section E: Structure Reports Online. 66 3, pp. i15 i16. IUCr, 2010.
   Type of production: Scientific paper Format: Journal Corresponding author: No
- **18** Nataliya Strutynska; Vyacheslav Baumer; Igor Zatovsky; Artem Babaryk; Nikolay Slobodyanik. The triple pyrophosphate Cs3CaFe(P2O7)2. Acta Crystallographica Section C: Crystal Structure Communications. 66 4, pp. i39 i41. IUCr, 2010.

Type of production: Scientific paper Corresponding author: No Format: Journal

Artem Babaryk; Igor Zatovsky; Nikolay Slobodyanik; Ivan Ogorodnyk. Synthesis, structure and magnetic characterization of a new phosphate K1.84Fe1.42Nb0.58(PO4)3 with the langbeinite- type structure. Zeitschrift fur Naturforschung - Section B Journal of Chemical Sciences. 63 - 3, pp. 345 - 348. Walter de Gruyter, 2008.
 Type of production: Scientific paper Format: Journal

Corresponding author: Yes

20 Artem Babaryk; Igor Zatovsky; Vyacheslav Baumer; Nikolay Slobodyanik; Pavlo Nagorny; Oleg Shishkin. Novel KTP-like complex phosphates KMII 0.33Nb0.67PO5 (MII-Mn, Co). Journal of Solid State Chemistry. 180 - 7, pp. 1990 - 1997. Elsevier B.V., 2007.

Type of production: Scientific paper Corresponding author: Yes Format: Journal

- Artem Babaryk; Igor Zatovsky; Vyacheslav Baumer; Nikolay Slobodyanik; Konstantin Domasevitch. The complex phosphate K0.92In0.46Nb0.54OPO4: A new -representative of the KTiOPO4 family. Acta Crystallographica Section C: Crystal Structure Communications. 63 11, pp. i105 i108. IUCr, 2007.
   Type of production: Scientific paper Format: Journal Corresponding author: No
- **22** Artem Babaryk; Igor Zatovsky; Vyacheslav Baumer; Nikolay Slobodyanik; Oleg Shishkin. Centrosymmetric aliovalent KTP isomorphs KM0.5 IIINb0.5OPO4 (M = Cr and Fe). Acta Crystallographica Section C: Crystal Structure Communications. 62 11, pp. i91 i93. IUCr, 2006.







Type of production: Scientific paper Corresponding author: No Format: Journal

23 levgen Odynets; Sergei Khainakov; Alla Dikhtiarenko; Artem Babaryk; Nikolay Slobodyanik. Synthesis and photocatalytic properties of U3O8-type complex oxides Ag2M4O11 (M = Nb, Ta). International Conference on Oxide Materials for Electronic Engineering - Fabrication, Properties and Applications, OMEE 2014. pp. 223 - 224. Lviv Polythechnic Publishing, 2014.

Type of production: Book of Conference Proceedings Format: Book Corresponding author: No

24 levgen Odynets; Olena Doroshenko; Artem Babaryk; Nikolay Slobodyanik; Sergei Khainakov; Vyacheslav Baumer. Synthesis and structural investigations of tantalates phosphates in the flux system Na2O-P2O5-Ta2O5-MoO3. International Conference on Oxide Materials for Electronic Engineering, OMEE 2012. pp. 107 - 108. Lviv Polythechnic Publishing, 2012.

Type of production: Book of Conference Proceedings Format: Book

**25** Artem Babaryk; levgen Odynets; Vyacheslav Baumer; Nikolay Slobodyanik; Sergei Khainakov; Stefan Hoffmann. Synthesis and structural relationship of complex tantalum phosphates in the flux system K2O-P2O5-Ta2O5-MoO3. International Conference on Oxide Materials for Electronic Engineering, OMEE 2012. pp. 99 - 100. Lviv Polythechnic Publishing, 2012.

Type of production: Book of Conference Proceedings Format: Book

### Works submitted to national or international conferences

**1 Title of the work:** Robust lead-free one-dimensional bismuth halides as potential absorbers for tandem solar cells

**Name of the conference:** NEXTGEN2019 Next Generation High Efficiency Photovoltaics International School and Workshop

Corresponding author: No City of event: Palma, Balearic Islands, Spain Date of event: 01/10/2019 End date: 04/10/2019 Organising entity: Instituto de Investigación en Energía de Cataluña City organizing entity: Barcelona, Catalonia, Spain Artem Babaryk; Marta Elena González Mosquera; Patricia Horcajada Cortes.

- Title of the work: 3,6-bis-(3,5-dimethyl-pyrazol-1-yl)-1,2,4,5-tetrazine high dielectric molecular semiconductor for excitonic solar cells
   Name of the conference: 7th EuCheMS Chemistry Congress
   Corresponding author: No
   City of event: Liverpool, Merseyside, United Kingdom
   Date of event: 26/08/2018
   End date: 30/09/2018
   Organising entity: Royal Society of Chemistry
   Artem Babaryk; Olena Khaynakova; Patricia Horcajada.
- Title of the work: High resolution X-ray powder diffraction study of Na8Ta21.64V2.36O64: solid state transformation of natrotantite to tetragonal tungsten bronze
   Name of the conference: 2nd European Crystallography School
   Type of participation: 'Participatory poster







Corresponding author: Yes City of event: Mieres, Principality of Asturias, Spain Date of event: 02/09/2015 End date: 05/09/2015 Organising entity: European Crystallographic Type of entity: Foundation Association City organizing entity: Oviedo, Principality of Asturias, Spain Artem Babaryk; levgene Odinets; Sergei Khainakov; Santiago Garcia-Granda; Nikolay Slobodyanik. pp. 281-- 282. Title of the work: Solution of the crystal structure of the K6.4Nb28.2Ta8.1O94 ("K2Nb8O21") pseudo-tetragonal tungsten bronze superstructure, using advanced transmission electron microscopy Name of the conference: IAMNano 2015-International Workshop on Advanced and In-situ Microscopies of **Functional Nanomaterials and Devices** Type of participation: Participatory - others Corresponding author: No City of event: Hamburg, Hamburg, Germany Date of event: 09/07/2015 End date: 10/07/2015 Organising entity: HZG Geesthacht Type of entity: Innovation and Technology Centres City organizing entity: Hamburg, Hamburg, Germany Robert Paria Sena; Artem Babaryk; Sergei Khainakov; Satiago Garcia-Granda; Nikolay Slobodyanik; Gustaaf Van Tendeloo; Artem Abakumov; Joke Hadermann. pp. 50 - 51. 5 Title of the work: Role of phosphate tetrahedral in the structure expansion complex oxides of titanium and tantalum in the flux medium Name of the conference: International Conference "Crystal Materials'2010" (ICCM'2010) Type of event: Conference Geographical area: Non EU International Type of participation: Participatory - oral communication Corresponding author: Yes City of event: Kharkiv, Spain Date of event: 01/06/2010 End date: 03/06/2010 Organising entity: State Scientific Institution Type of entity: Innovation and Technology Centres "Institute for Single Crystals" of National Academy of Sciences of Ukraine City organizing entity: Kharkiv, Ukraine Artem Babaryk; Eugene Odinets; Vyacheslav Baumer; Nikolay Slobodyanik; Oleg Shishkin. pp. 58 - 58. 6 Title of the work: Melted phosphate-molybdate media for complex oxides synthesis Name of the conference: International Conference "Crystal Materials'2010" (ICCM'2010) Type of participation: Participatory - others City of event: Kharkiv, Ukraine Date of event: 01/06/2010 End date: 03/06/2010 **Organising entity:** State Scientific Institution **Type of entity:** Innovation and Technology Centres "Institute for Single Crystals" of National Academy of Sciences of Ukraine City organizing entity: Kharkiv, Ukraine

Nikolay Slobodyanik; Igor Zatovsky; Artem Babaryk; Kateryna Terebilenko. pp. 58 - 58.







7 Title of the work: Conductive properties of aliovalent-substituted KTP-analogues KMII0.333Nb0.667OPO4 (MII – Mn, Co, Ni) Name of the conference: International Scientific Workshop Oxide Materials for Electronic Engineering – fabrication, properties and application OMEE-2009 Type of event: Workshop Geographical area: Non EU International Type of participation: 'Participatory - poster Corresponding author: No City of event: Lviv, Ukraine Date of event: 25/06/2009 End date: 26/06/2009 Organising entity: Lviv Polytechnic National Type of entity: University University City organizing entity: Lviv, Ukraine Publication in conference proceedings: Yes Artem Babaryk; Igor Zatovsky; Roman Kuzmin; Nikolay Slobodyanik; Vyacheslav Baumer. pp. 21 - 21. 8 Title of the work: Synthesis and phase formation in the flux system K2O-P2O5-Nb2O5-MoO3 Name of the conference: International Scientific Workshop Oxide Materials for Electronic Engineering – fabrication, properties and application OMEE-2009 Type of event: Workshop Geographical area: Non EU International Type of participation: 'Participatory - poster Corresponding author: Yes City of event: Lviv, Ukraine Date of event: 23/06/2009 End date: 26/06/2009 Organising entity: Lviv Polytechnic National Type of entity: University University City organizing entity: Lviv, Ukraine Publication in conference proceedings: Yes Eugene Odinets; Artem Babaryk; Nikolay Slobodyanik; Vyacheslav Baumer. pp. 51 - 51. (Ukraine): **9** Title of the work: Synthesis and investigation of potassium-niobium phosphates in complex systems K2O-Nb2O5-P2O5-MoO3 and K2O-Nb2O5-P2O5-MoO3-MIIO (MII - Cu, Zn, Cd) Name of the conference: Vth scientific international conference in chemistry "Kiev-Toulouse" Geographical area: Non EU International Type of event: Conference Type of participation: Participatory - others Corresponding author: Yes City of event: Ukraine, Ukraine Date of event: 02/06/2009 End date: 04/06/2009 Organising entity: Taras Shevchenko National Type of entity: University University of Kyiv City organizing entity: Kyiv, Ukraine Publication in conference proceedings: Yes Artem Babaryk; Eugen Odinets; Igor Zatovsky; Nikolay Slobodyanik. pp. 60 - 60. (Ukraine): **10** Title of the work: Applying of multicomponent high temperature media for complex phosphate preparation Name of the conference: Vth scientific international conference in chemistry "Kiev-Toulouse" Type of event: Conference Geographical area: Non EU International Type of participation: Participatory - others Corresponding author: No City of event: Kyiv, Ukraine







Date of event: 31/05/2009 End date: 04/06/2009 Organising entity: Taras Schevchenko National University of Kyiv City organizing entity: Kyiv, Ukraine Publication in conference proceedings: Yes Nikolay Slobodyanik; Igor Zatovsky; Artem Babaryk; Kateryna Terebilenko. pp. 16 - 16. (Ukraine):

### **R&D** management and participation in scientific committees

### Scientific, technical and/or assessment committees

Committee title: Young Scientist Council Geographical area: Non EU International City: Kyiv, Ukraine Affiliation entity: Taras Shevchenko National University of Kyiv City affiliation entity: Kyiv, Ukraine Start-End date: 17/02/2014 - 06/03/2017

Type of entity: University

### Other achievements

### Stays in public or private R&D centres

 1
 Entity: University of Wroclaw
 Type of entity: University

 Faculty, institute or centre: Faculty of Chemistry
 City of entity: Wroclaw, Dolnoslaskie, Poland

 Start-End date: 10/10/2014 - 31/10/2014
 Funding entity: European Commision

 Type of entity: Foundation
 Name of programme: FP7-PEOPLE-2011-IRSES - Marie Curie Action "International Research Staff Exchange Scheme

 Goals of the stay: Guest
 Provable tasks: crystallographic studies of metal complexes with pro-drug chelating ligands

2 Entity: University of Aveiro Type of entity: University Research Institute Faculty, institute or centre: CICECO City of entity: Aveiro, Portugal Primary (UNESCO code): 230691 - Organic chemistry. Instrumental Analysis Start-End date: 11/03/2013 - 04/08/2013 Funding entity: Fundação para a Ciência e a Tecnologia City funding entity: Portugal Name of programme: PTDC/QUI-QUI/10998/2008 Goals of the stay: Contracted Acquired skills developed: Analysis of precise spatial atomic structure by combination of diffraction, spectroscopic and theoretical methods

Entity: Max Planck Institute for Chemical Physics of Type of entity: Foundation Solids
 City of entity: Dresden, Dresden, Germany

GOBIERNO DE ESPAÑA E INNOVACIÓN





Start-End date: 12/06/2010 - 12/2009
Funding entity: Max Planck Society
Name of programme: Fellowship of Max Planck Society
Goals of the stay: Guest
Provable tasks: Synthesis and characterization of new borophosphate materials
Acquired skills developed: high-resolution powder diffraction, thermal analysis of polyoxoanionic compounds

