

Curriculum Vitae

Bondar Ivan

Citizenship: Ukraine

Born: 1992, May, 29, place of birth: Kharkiv, Ukraine

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Scientific degree:

2019 **Dr.rer.nat.** - Ph.D. degree in phisics and mathematics (solid state physics)
Thesis: "Effect of the crystal structure inhomogeneities on electronic properties of
a hexagonal modification of niobium dichalcogenide and graphene"
Institute for Low Temperature Physics and Engineering (ILTPE), Kharkiv,
Ukraine (www.ilt.kharkov.ua)

Employment history:

2014 - present **Junior Scientist** at the Department of magnetic and elastic properties of solids,
Institute for Low Temperature Physics and Engineering (ILTPE), Kharkiv,
Ukraine (www.ilt.kharkov.ua)

Education:

2014 - 2017 **PhD student** in the *Institute for Low Temperature Physics and Engineering*
(ILTPE), Kharkiv, Ukraine

2014 **M.S. in Physics**, V. N. Karazin Kharkiv National University, *Ukraine*

2013 **B.S. in Physics**, V. N. Karazin Kharkiv National University, *Ukraine*

2009 - 2014 student of the *V. N. Karazin Kharkiv National University*, Kharkiv, Ukraine
(www.univer.kharkov.ua, the participant of Bologna Process)

Publications:

1. Effect of step-edge on spectral properties and planar stability of metallic bigraphene / Eremenko V.V, Sirenko V.A., Gospodarev I.A., Syrkin E.S. , Feodosyev S.B., **Bondar I.S.**, Saxena S.S., Feher A., Minakova K.A. // *ΦHT.* – 2016. T.42, №2. – C. 134-141 [Low Temp.Phys. - 2016. T42, №2. – C.99].

2. Anisotropic behavior and inhomogeneity of atomic local densities of states in graphene with vacancy groups / Eremenko V., Sirenko V, Gospodarev I, Syrkin E., Feodosyev S., **Bondar I.**, Minakova K. // *Journal of Science: Advanced Materials and Devices.* – 2016. V.1, №1. – P. 1-7.

3. Роль акустических фононов в отрицательном тепловом расширении слоистых структур и нанотрубок на их основе / Еременко В.В., Сиренко А.Ф., Сиренко В.А., Долбин А.В., Господарев И.А., Сыркин Е.С., Феодосьев С.Б. , **Бондарь И.С.**, Минакова К.А. // ФНТ. – 2016. Т.42, №5. – С. 513-525.

4. The phonon mediated anomalies of thermal expansion in transition-metal compounds and emergent nanostructures / Eremenko V., Sirenko V, Dolbin A., Feodosyev S., Gospodarev I., Syrkin E., **Bondar I.**, Minakova K. //Solid State Phenomena. – 2017. V.257, №1. – P. 81-85.

5. Электронные и фононные состояния, локализованные вблизи границы графена / В.В. Еременко, В.А. Сиренко, И.А. Господарев, Е.С. Сыркин, С.Б. Феодосьев, **И.С. Бондарь**, А. Feher, К.А. Минакова // ФНТ. – 2017. Т.43, №11. – С. 1657-1668.

6. Комби-криостат для рентгеновского дифрактометра / **И.С. Бондарь**, В.И. Пинегин, В.В. Рябовол, В.А. Сиренко, В.В. Еременко // ФНТ. – 2017. Т.43, №12. – С. 1796.

7. Peculiar Features of Vibrations Propagation and Localization in Graphene Nanostructures / S. Feodosyev, I. Gospodarev, E. Syrkin [et al.] // - 2021 IEEE 2nd KhPI Week on Advanced Technology. – 2021. – P. 676-680. DOI: [10.1109/KhPIWeek53812.2021.9570040](https://doi.org/10.1109/KhPIWeek53812.2021.9570040)

8. Vibrational Characteristics of Graphene Nanostructures: Stability, Low-Dimensional Peculiarities and Peculiarities of Phonon Expansion and Localization / S.B. Feodosyev, V.A. Sirenko, I.A. Gospodarev [et al.] // - IEEE KhPI Week on Advanced Technology. – 2020. – P. 482-487.

CONFERENCES AND WORKSHOPS ATTENDED

- Международная научная конференция “Физические явления в твердых телах” (Харьков, Украина, 1-4 декабря 2015 года);
- VII International Conference for Young Scientists «Low Temperature Physics». (Kharkov, Ukraine, 6-10 June 2016);
- 20th Int. Conf, on Solid Compounds of Transition Elements (Spain, Zaragoza, 2016);
- VII Українська наукова конференція з фізики напівпровідників (Україна, Дніпро, 2016)
- VIII International Conference for Young Scientists «Low Temperature Physics». (Kharkov, Ukraine, 29 May – 2 June 2017).
- 28th International Conference on Low Temperature Physics (Gothenburg, Sweden, 9-16 August 2017)
- Международная научная конференция “Физические явления в твердых телах” (Харьков, Украина, 2-5 декабря 2017 года)

- 2020 IEEE KhPI Week on Advanced Technology (Kharkiv, Ukraine, 5 – 10 October 2020)
- IEEE 2nd KhPI Week on Advanced Technology (Kharkiv, Ukraine, 13 – 17 September 2021)
- X International Conference of Young Scientists “Low Temperature Physics” (Kharkiv, Ukraine, 3 – 7 June 2019)
- CM & LTP 2020 (Kharkiv, Ukraine, 8 – 14 June 2020).