Dr Vasil Saroka (瓦夏)

PERSONAL DATA

DOB:	9 August, 1988	**Citizenship:**	Belarusian
Marital Status:	Married		
Languages:	English, Russian, Chinese, Tagalog, Belarusian		
Business address:	University of Rome Tor Vergata, School of Mathematics, Physics and Natural Science, Department of Physics, Via della Ricerca Scientifica 1, 00133, Roma		
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Scopus Author ID:	55900674800 h-index=12; 383 citations; 33 publications		
Researcher ID:	A-4623-2017 h-index=9; 209 citations; 13 publications; 67 verified reviews		
Google Scholar:	h-index =14; i10-index=17; 480 citations; 41 publications		
Twitter:	@SarokaVasil	**GitHub:**	@vasilsaroka
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Research Gate:	https://www.researchgate.net/profile/Vasil-Saroka		
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TBpack Ltd.	https://www.tbpack.co.uk		
Web site:	https://sites.google.com/view/vasilsaroka		
Wolfram Demonstrations	https://demonstrations.wolfram.com/author.html?author=Vasil+Saroka		

EDUCATION

- **19/10/2018** – **Candidate of Sciences** in Theoretical Physics, *B.I. Stepanov Institute of Physics of NASB*, Minsk, Belarus.
- **14/08/2017** – **PhD in Physics**, *University of Exeter*, College of Engineering, Mathematics and Physical Sciences, Exeter, UK.
- **30/06/2012** – M.Sc. in Physics, Belarusian State University, Physics Department, Minsk, Belarus.
- **30/06/2011** – M.Phys. (Engineer-Physicist), *Belarusian State University*, *Physics Department*, Minsk, Belarus.

PROFESSIONAL EXPERIENCE

Employment

01/02/2023 – present	**Marie-Curie Postdoctoral Fellow,** *University of Rome Tor Vergata,* School of Mathematics, Physics and Natural Science, *Department of Physics*, Rome, Italy.
30/07/2021 – present	**Founder and Director**, *TBpack Ltd. (startup)*, London, UK.
28/11/2018 – 28/11/2021	**Postdoctoral Researcher**, *Norwegian University of Science and Technology*, Faculty of Natural Sciences, *Department of Physics*, Trondheim, Norway.
01/02/2018– 20/11/2018	**Researcher**, *Research Institute for Nuclear Problems*, Belarusian State University,

	Minsk, Belarus.
01/04/2014–31/01/2018	**Junior Researcher**, *Research Institute for Nuclear Problems*, Belarusian State University, Minsk, Belarus.
04/08/2014–03/08/2017	**Early Stage Researcher**, *University of Exeter*, College of Engineering, Mathematical and Physical Sciences, Exeter, UK. **[PhD in Exeter]**
01/08/2012–31/03/2014	**Junior Research Assistant**, *Research Institute for Nuclear Problems*, Belarusian State University, Minsk, Belarus.
17/07/2011–31/07/2012	**Engineer**, *Research Institute for Nuclear Problems*, Belarusian State University, Minsk, Belarus.
18/10/2011–01/04/2012	**Math and Physics content developer**, *Private Enterprise «ММ софт-троник»,* Minsk, Belarus. **[Experience outside academia]**
01/02/2010-30/06/2011	**Laboratorian**, *Research Institute for Nuclear Problems*, Belarusian State University, Minsk, Belarus.

International research visits

- **02/07/2018-02/08/2018** – *MBN Research Center*: project "Multiscale modeling of carbon nanostructures with MBN Explorer and MBN Studio 3.0", supervisor Prof. Andrey V. Solov'yov; [funded by EU H2020 RISE PEARL, (H2020-690991)].
- **24/04/2018-24/05/2018** – *University of Rome Tor Vergata*: project "Optical properties of finite-length chevron-type graphene nannoribbons", supervisor Prof. Olivia Pulci; [funded by EU H2020 RISE COEXAN (H2020-644076)].
- **21/04/2017-30/04/2017** – *University of Iceland*: project "Brightening of the excitonic ground state in carbon nanotubes in the strong light-matter coupling regime", supervisor Prof. Ivan Shelykh; [funded by EU FP7 ITN NOTEDEV (FP7-607521)].
- **30/03/2015-03/04/2015** – *University of Picardy Jules Verne*: project "Optical properties of silicene and bilayer graphene nanoclusters", supervisor Prof. Igor Lukyanchuk; [funded by EU FP7 ITN NOTEDEV (FP7-607521)].
- **02/06/2014-30/06/2014** – *University of Namur*: project "Electromagnetic properties of graphene", supervisor Prof. Philippe Lambin; [funded by EU FP7 project FAEMCAR (FP7-318617)].
- **01/10/2013-30/11/2013** – *Emanuel Institute of Biochemical Physics*, Russian Academy of Science: project "Modelling of the structure and properties of asymmetrical edge-corrugated graphene nanoribbons", supervisor Prof. Leonid Chernozatonskii chernol-43(at)mail.ru; [funded by Russian Foundation for Basic Research grant "РФФИ № 13-02-90919"].
- **01/08/2011-30/09/2011** – *University of Southampton*, School of Physics and Astronomy, *Laboratory for Hybrid Optoelectronics:* project "Engineering nonlinearities in organic semiconductor microcavities", supervisor: Prof. Pavlos Lagoudakis pavlos.lagoudakis(at)soton.ac.uk; [funded by IAESTE UK].

Research funding

- **01/02/2023-31/01/2025** – *European Research Executive Agency,* "Terahertz excitons in monolithically integrated carbon nanostructures", TeraExc-101065500-HORIZON-MSCA-2021-PF-01, (EUR 188,590) **[role:ER]**
- **01/02/2014-31/12/2014** – *Grant of the Ministry of Education of The Republic of Belarus* "Electromagnetic wave retardation in system of two graphene nanoribbons", 02-12/2014, (BYR 40,000,000) **[role:PI]**
- **01/02/2014-31/12/2014** – *Belarusian State University Fellowship* "The influence of width vector direction on electronic properties of edge-modified zigzag-shaped graphene nanoribbons", 01/02/2014-31/12/2014, (BYR 1,900,000) **[role:PI]**

- **01/10/2013-30/11/2013** – *Russian Foundation for Basic Research*, "Modelling of the structure and properties of asymmetrical edge-corrugated graphene nanoribbons", "мол_ин_нр" РФФИ № 13-02-90919, (RUR 140,000)**[role:PI]**

Professional memberships

- **01/01/2021** – American Physical Society, Membership Type: Early Career.
- **01/01/2021** – American Chemical Society, Membership Type: Regular Member.

Teaching

- **03/2021-05/2021** – Norwegian University of Science and Technology, Department of Physics, Trondheim, Norway: – **Lecturer assistant in Nanophysics** (Reading tasks: 1) single-electron charge pump; 2) quantum Hall effect in graphene)
- **10/02/2020-11/02/2020** – Norwegian University of Science and Technology, Department of Physics, Trondheim, Norway: – **Lecturer in Nanophysics** (Quantum Hall effect).
- **01/02/2013-31/05/2013** – Belarusian State University, Physics Department, Minsk, Belarus: – **Labs in Nuclear Physics**.

Supervision of master and doctoral students

- **21/11/2018-18/09/2020** – De La Salle University, College of Science, Physics Department, Manila, Philippines:– **PhD Thesis: Renebeth B. Payod** "Alignment of absorption resonances of single-walled carbon nanotubes and graphene nanoribbons", co-adviser with Prof. Gil Nonato C. Santos.
- **03/12/2018-15/05/2019** – Norwegian University of Science and Technology, Faculty of Natural Sciences, Department of Physics, Trondheim, Norway: – **Master Thesis: Ola Neilsen Estensen**, co-supervision with Prof. J. Danon.
- **01/06/2015-01/06/2017** – University of Exeter, College of Engineering, Mathematical and Physical Sciences, Exeter, UK: – **Master Thesis: Robert Keens**, co-supervision with Prof. M.E. Portnoi.

Development of higher educational courses

- **01/06/2016-01/09/2016** – PHY3062 Methods of Theoretical Physics read by Prof M.E. Portnoi: **Didactic materials** on Transfer Matrix Method for the University of Exeter course.

CERTIFICATES AND AWARDS

- **2021** - Certificate of Appreciation for serving as a reviewer for Journal of Nanophotonics.
- **2018** – Certificate of Appreciation for serving as a reviewer for Journal of Nanophotonics.
- **2017** – Certificate of Appreciation for serving as a reviewer for Journal of Nanophotonics.
- **2017** – LTHE Stage 1, University of Exeter Learning and Teaching in Higher Education Programme
- **2016** – **Best Poster Award** at Nanostructures for Photonics International Summer School and Workshop, Saint Petersburg, Russia, 27 June - 02 July.

CONFERENCES

Talks:

1. **1-5/03/2023** *The XIII MIFP March Meeting*, Castel Gandolfo, Italy. "Topology, 1D metal and pitchfork bifurcation in dissipationless quantum transport"/ V.A. Saroka, F. Kong, C.A. Downing, R.B. Payod, L. Bogani.
2. **21/09/2020** *Wolfram Virtual Conference Russia 2020*, online webinar. "TBpack-Carbon: Nanophysics for everyone in Mathematica package/TBpack-Carbon: Нанофизика для всех в пакете Математика" \ V. A. Saroka. Video available at https://www.wolfram.com/broadcast/video.php?v=3148

3. **27-30/10/2019** *Graphene & Co Annual Meeting 2019*, Bad Herrenalb, Germany. "Aligning optical resonances of armchair carbon nanotubes and zigzag graphene nanoribbons"/ V.A. Saroka, R.B. Payod, D. Grassano, O. Pulci.
4. **17/09/2019** *Wolfram Virtual Conference Russia 2019*, online webinar. "Exploring nanostructures with the tight-binding method in *Mathematica*/ Исследование наноструктур методом сильной связи в системе *Mathematica*" \ V. A. Saroka. Video available at https://www.wolfram.com/broadcast/video.php?v=2732
5. **28-29/11/2018** *NTNU Nano Symposium 2018*, Trondheim, Norway. "A hidden correlation between peaks in absorption spectra of zigzag graphene nanoribbons and armchair carbon nanotubes"/ V. A. Saroka, M. V. Shuba, M. E. Portnoi.
6. **18-22/06/2018** *26th International Symposium "Nanostructures: Physics and Technology"*, Minsk, Belarus. "Absorption in finite-length chevron-type graphene nanoribbons"/ V. A. Saroka, H. Abdelsalam, V.A. Demin, D. Grassano, S.A. Kuten, A.L. Pushkarchuk, O. Pulci.
7. **04-06/12/2017** *International conference and exhibition "Nanotech Middle East 2017"*, Dubai, United Arab Emirates. "A hidden correlation between absorption spectra of graphene nanoribbons and carbon nanotubes"/ V. A. Saroka, M. V. Shuba and M. E. Portnoi.
8. **21-24/09/2016** *International workshop "Novel Terahertz Devices"*, Prague, Czech Republic. "Terahertz Transitions in Quasi-metallic Graphene Nanoribbons" / V. A. Saroka, R. R. Hartmann, and M. E. Portnoi.
9. **24-30/07/2016** *International school of solid state physics, Epioptics-14 and Silicene-2*, Erice, Sicily, Italy. "Electro-absorption of silicene and bilayer graphene quantum dots" / V. A. Saroka, H. Abdelsalam, M. H. Talaat, I. Lukyanchuk, M. E. Portnoi, and O. Pulci.
10. **27/06-01/07/2016** *International symposium "Nanostructures: Physics and Technology"*, St Petersburg, Russia. "Terahertz transitions in narrow-gap carbon nanotubes and graphene nanoribbons" / V. A. Saroka, R. R. Hartmann, and M. E. Portnoi.
11. **09-12/09/2015** *International Meeting on Materials for Electronic Applications "IMMEA-2015"*, Marrakech, Morocco. "Terahertz emission from narrow-gap carbon nanotubes and graphene nanoribbons"/ V.A. Saroka, R.R. Hartmann, M.E. Portnoi.
12. **11-14/08/2015** *9th International Nanoscience Student Conference "INASCON 2015",* University of Basel, Basel, Switzerland. "Interband Terahertz Transitions in Narrow-gap Carbon Nanotubes and Graphene Nanoribbons" / V. Saroka, R. Hartmann, M. Portnoi.
13. **19-22/08/2013** *International Nanoscience Student Conference 2013 "INASCON 2013"*, London Center for Nanotechnology, University College London, London, UK. "Band Gap Engineering in Asymmetric edge-Corrugated Graphene Nanoribbons" / V. Saroka, K. Batrakov.
14. **26/08-02/09/2012** *International Summer School for young scientists "NANOTECHNOLOGY: from fundamental research to innovations"*, Institute of Physics NASU, Bukovel, Ukraine. "Surface plasmon retardation in graphene bilayer".

PUBLICATIONS (EXCLUDING SELF CITATIONS)

Articles:

1. **V. A. Saroka**, R. R. Hartmann, and M. E. Portnoi, "Momentum alignment and the optical valley Hall effect in low-dimensional Dirac materials", **JETP** 135, 513 (2022). **(Scopus cited by 0)**
2. H. Abdelsalam, **V. A. Saroka**, M. M. Atta, O. H. Abd-Elkader, N. S. Zaghloul and Q. Zhang, "Tunable sensing and transport properties of doped hexagonal boron nitride quantum dots for efficient gas sensors", **Crystals** 12, 1684 (2022). **(Scopus cited by 0)**
3. M. A. Saad, M. A. S. Sakr, **V. A. Saroka**, and H. Abdelsalam, "Chemically modified covalent organic frameworks for a healthy and sustainable environment: First-principles study", **Chemosphere** 308, 136581 (2022). **(Scopus cited by 0)**
4. H. Abdelsalam, M. M. Atta, **V. A. Saroka**, and Q. Zhang, "Anomalous magnetic and transport properties of laterally connected graphene quantum dots", **J. Mater. Sci.** 57, 14356 (2022). **(Scopus cited by 0)**
5. C. A. Downing and **V. A. Saroka**, "Exceptional points in oligomer chains", **Commun. Phys.** 4, 254 (2021). **(Scopus cited by 2)**
6. H. Abdelsalam, **V. A. Saroka**, M. M. Atta, W. Osman, and Q. Zhang, "Tunable electro-optical properties of doped chiral graphene nanoribbons", **Chem. Phys.** 544, 111116 (2021). **(Scopus cited by 1)**
7. H. Abdelsalam, **V. A. Saroka**, N. H. Teleb, M. Ali, W. Osman, and Q. Zhang, "Electronic and adsorption properties of extended chevron and cove-edged graphene nanoribbons", **Physica E** 126, 114438 (2021). **(Scopus cited by 3)**

8. R. B. Payod, D. Grassano, G. N. C. Santos, D. I. Levshov, O. Pulci, and **V. A. Saroka**, "2N+4-rule and an atlas of bulk optical resonances of zigzag graphene nanoribbons", **Nat. Commun.** 11, 82 (2020). **(Scopus cited by 11)**
9. V. A. Demin, A. A. Artyukh, **V. A. Saroka**, and L. A. Chernozatonskii, "Study of a new type of crimped-shape nanotubes cut from bilayer graphene with the Moiré angle Θ = 27.8°", **JETP Lett.** 111, 397 (2020). **Editorial Pick** **(Scopus cited by 0)**
10. H. Abdelsalam, W. O. Younis, **V. A. Saroka**, N. H. Teleb, S. Yunoki, and Q. Zhang, "Interaction of hydrated metals with chemically modified hexagonal boron nitride quantum dots: wastewater treatment and water splitting", **Phys. Chem. Chem. Phys.** 22, 2566 (2020). **(Scopus cited by 12)**
11. R. B. Payod and **V. A. Saroka**, "Ab initio study of absorption resonance correlations between nanotubes and nanoribbons of graphene and hexagonal boron nitride", **Semiconductors** 53, 1929 (2019). **(Scopus cited by 2)**
12. R. R. Hartmann, **V. A. Saroka**, M. E. Portnoi, "Interband transitions in narrow-gap carbon nanotubes and graphene nanoribbons", **J. Appl. Phys.** 125, 151607 (2019). **Editorial Pick** **(Scopus cited by 13)**
13. H. Abdelsalam, **V. A. Saroka**, W. O. Younis, "Edge functionalization of finite graphene nanoribbon superlattices", **Superlattices Microstruct.** 129, 54 (2019). **(Scopus cited by 2)**
14. V. A. Shahnazaryan, **V. A. Saroka**, I. A. Shelykh, W. L. Barnes, M. E. Portnoi, "Strong light-matter coupling in carbon nanotubes as a route to exciton brightening", **ACS Photonics** 6, 904 (2019). **(Scopus cited by 21)**
15. H. Abdelsalam, **V. A. Saroka**, M. Ali, N. H. Teleb, H. Elhaes, M. A. Ibrahim, "Stability and electronic properties of edge functionalized silicene quantum dots: A first principles study", **Physica E** 108, 339 (2019). **(Scopus cited by 32)**
16. H. Abdelsalam, **V. A. Saroka**, and W. O. Younis, "Phosphorene quantum dot electronic properties and gas sensing", **Physica E** 107, 105 (2019). **(Scopus cited by 11)**
17. **V. A. Saroka**, H. Abdelsalam, V. A. Demin, D. Grassano, S. A. Kuten, A. L. Pushkarchuk, and O. Pulci, "Absorption in finite-length chevron-type graphene nanoribbons", **Semiconductors** 52, 1890 (2018). **(Scopus cited by 3)**
18. H. Abdelsalam, **V. A. Saroka**, I. Lukyanchuk, and M. E. Portnoi, "Multilayer phosphorene quantum dots in an electric field: Energy levels and optical absorption", **J. Appl. Phys.** 124, 124303 (2018). **(Scopus cited by 7)**
19. **V. A. Saroka**, A. L. Pushkarchuk, S. A. Kuten, and M. E. Portnoi, "Hidden correlation between absorption peaks in achiral carbon nanotubes and nanoribbons", **J. Saudi Chem. Soc.** 22, 985 (2018). **(Scopus cited by 4)**
20. T. P. Collier, **V. A. Saroka**, and M. E. Portnoi, "Tuning terahertz transitions in a double-gated quantum ring", **Phys. Rev. B** 96, 235430 (2017). **(Scopus cited by 7)**
21. **V. A. Saroka**, I. Luckyanchuk, M. E. Portnoi and H. Abdelsalam,"Electro-optical properties of phoshorene quantum dots", **Phys. Rev. B** 96, 085436 (2017). **(Scopus cited by 31)**
22. **V. A. Saroka**, M. V. Shuba and M. E. Portnoi, "Optical selection rules of zigzag graphene nanoribbons", **Phys. Rev. B** 95, 155438 (2017). **(Scopus cited by 23)**
23. **V. A. Saroka** and K. G. Batrakov, "Zigzag-shaped superlattices on the basis of graphene nanoribbons: structure and electronic properties", **Russ. Phys. J.** 59(5), 633 (2016). **(Scopus cited by 3)**
24. H. Abdelsalam, M. H. Talaat, I. Lukyanchuk, M. E. Portnoi, and **V. A. Saroka**, "Electro-absorption of silicene and bilayer graphene quantum dots", **J. Appl. Phys.** 120, 014304 (2016). **(Scopus cited by 16)**
25. **V. A. Saroka**, K. G. Batrakov, V. A. Demin, and L. A. Chernozatonskii, "Band gaps in jagged and straight graphene nanoribbons tunable by an external electric field", **J. Phys.: Condens. Matter** 27, 145305 (2015). **(Scopus cited by 12)**
26. **V. A. Saroka**, K. G. Batrakov, and L. A. Chernozatonskii, "Edge-modified zigzag-shaped graphene nanoribbons: Structure and electronic properties", **Phys. Solid State** 56, 2135 (2014). **(Scopus cited by 7)**
27. Konstantin G. Batrakov, **Vasily A. Saroka**, Sergey A. Maksimenko, Christian Thomsen, "Plasmon polariton deceleration in graphene structures", **J. Nanophoton.** 6, 061719 (2012). **(Scopus cited by 15)**

Book chapters:

1. T.P.Collier, **V.A.Saroka**, C.A.Downing, A.M.Alexeev, R.R.Hartmann, and M.E.Portnoi (2019) Terahertz Applications of Non-Simply-Connected and Helical Nanostructures. In: A.Maffucci and S.A.Maksimenko (eds) Fundamental and Applied Nano-Electromagnetics II, NATO Science for Peace and Security Series B: Physics and Biophysics. Springer, Dordrecht. Chapter 11, pp. 201-214. **(Scopus cited by 1)**

2. **V.A. Saroka**, R.R. Hartmann, M.E. Portnoi (2019) Interband transitions in narrow-gap carbon nanotubes and graphene nanoribbons. In: A. Maffucci, S.A. Maksimenko, Yu. Svirko (eds) Carbon-Based Nanoelectromagnetics. Nanophotonics Series. Elsevier, Amsterdam. Chapter 4, pp. 99-117. **(Scopus cited by 2)**
3. K. Batrakov, **V. Saroka** (2013) Surface Plasmon Retardation in Graphene Bilayer. In: Fesenko O., Yatsenko L., Brodin M. (eds) Nanomaterials Imaging Techniques, Surface Studies, and Applications. Springer Proceedings in Physics, vol 146. Springer, New York, NY. Chapter 9, pp. 103-115. **(Scopus cited by 1)**

Proceedings and others:

1. A. Maffucci, S. A. Maksimenko, M. E. Portnoi, **V. A. Saroka**, and G. Y. Slepyan, "A Graphene THz Detector based on Plasmon Resonances and Interband Transitions", 2021 XXXIVth General Assembly and Scientific Symposium of the International Union of Radio Science, URSI GASS 2021, Rome, Italy, 28 August - 4 September 2021 / – , IEEE, 2021. pp. 1–3. **(Scopus cited by 0)**
2. **V. A. Saroka**, R. R. Hartmann, and M. E. Portnoi, "Terahertz transitions in narrow-gap carbon nanotubes and graphene nanoribbons", J. Phys. Conf. Ser. 1092, 012121 (2018). **(Scopus cited by 0)**
3. **V. A. Saroka**, R. R. Hartmann, and M. E. Portnoi, "Terahertz transitions in carbon nanotubes and graphene nanoribbons", Proceedings of the 2017 19th International Conference on Electromagnetics in Advanced Applications, ICEAA 2017, Verona, Italy, 11-15 September, 2017 / – , IEEE, 2017. pp. 1178–1181. **(Scopus cited by 0)**
4. M. E. Portnoi, **V. A. Saroka**, R. R. Hartmann, and O. V. Kibis, "Terahertz Applications of Carbon Nanotubes and Graphene Nanoribbons", Proceedings of IEEE Computer Society Annual Symposium on VLSI, ISVLSI 2015, Montpellier, France, 8-10 July, 2015 / Editor: L. O'Conner. –Los Alamitors, IEEE Computer Society CPS, 2015. pp. 456–459. **(Scopus cited by 4)**

Proceedings and others not idexed in scopus:

1. **V.A. Saroka**, H. Abdelsalam, V.A. Demin, S.A. Kuten, and A.L. Pushkarchuk / Absorption in finite-length chevron-type graphene nanoribbons // Proceedings of 26th International Symposium Nanostructures: Physics and Technology, Minsk, Belarus, June 18 – 22, 2018 / Editors: M. Sudenkova, K. Pipa, O. Kochkurova. — St Petersburg, Academic University Publishing, 2018. — P.41–42.
2. **V.A. Saroka** / Analytical solutions for energies and wave functions of two coupled quantum rings in tight-binding model // Actual Problems of Radiophysics. Proceedings of the VII International Conference "APR–2017", Tomsk, Russia, September 18–22, 2017 / — London: Red Square Scientific, 2018. — P.5–9.
3. **V. A. Saroka**, R. R. Hartmann, and M. E. Portnoi / Terahertz transitions in narrow-gap carbon nanotubes and graphene nanoribbons // Physics, Chemistry and Applications of Nanostructures. Reviews and Short Notes to Nanomeeting-2017. International Conference on Physics, Chemistry and Application of Nanostructures "Nanomeeting-2017", Minsk, Belarus, 30 May – 2 June, 2017 / Editors: V.E. Borisenko, S.V. Gaponenko, V.S. Gurin, C.H. Kam. — Singapore, World Scientific, 2017. — P.176-179.
4. T. P. Collier, **V. A. Saroka**, and M. E. Portnoi / Tuning THz transitions in quantum ring with two gates // Physics, Chemistry and Applications of Nanostructures. Reviews and Short Notes to Nanomeeting-2017. International Conference on Physics, Chemistry and Application of Nanostructures "Nanomeeting-2017", Minsk, Belarus, 30 May – 2 June 2017 / Editors: V.E. Borisenko, S.V. Gaponenko, V.S. Gurin, C.H. Kam. — Singapore, World Scientific, 2017. — P.172-175.
5. **V.A. Saroka**, R.R. Hartman and M.E. Portnoi / Terahertz transitions in narrow-gap carbon nanotubes and graphene nanoribbons // Proceedings of 24th International Symposium Nanostructures: Physics and Technology, St Petersburg, Russia, June 27 – July 1, 2016 / Editor: E. Kholmogorova. — St Petersburg, Academic University Publishing, 2016. — P.205–206.
6. **V. A. Saroka**, K.G. Batrakov / Dirac electrons of graphene nanoribbons tunable by transverse electric field // Physics, Chemistry and Application of Nanostructures: Reviews and Short Notes, Proceedings of International Conference Nanomeeting – 2015, Minsk, Belarus, 26 – 29 May 2015 / Editors: V.E. Borisenko, S.V. Gaponenko, V.S. Gurin, C.H. Kam. — Singapore, World Scientific, 2015. –P.240-243.
7. **V. Saroka** / Reduction of plasmon-polariton phase velocity in a double-layer graphene // Physics, Chemistry and Applications of Nanostructures: Reviews and Short Notes, Proceedings of International Conference Nanomeeting – 2013, Minsk, Belarus, 28 – 31 May 2013 / Editors: V.E. Borisenko, S.V. Gaponenko, V.S. Gurin, C.H. Kam. — Singapore, World Scientific, 2013. — P.218-221.