***Explanatory note for the CV author***

*Fields marked with "\*" are mandatory for all project participants.*

*Other fields are filled in only if you personally have relevant experience, otherwise, these fields are left blank or marked as “none/absent”.*

*The provided information should not exceed the limits indicated in the relevant fields (for example, "no more than 5 positions in the last 10 years") - excessive information will not be taken into account.*

*Full and accurate information is provided in the order (or - in the sequence) as suggested in the corresponding field, clearly indicating the source/method of its verification (DOI/ISBN index, link to the official website, scanned copy of the document, etc.); information that cannot be verified will not be taken into account.*

*Scanned copies of documents are attached as separate pages after the main text of the CV.*

*Titles of publications, topics of reports, names of events or projects, institutions or organizations outside of Ukraine are submitted in the original language.*

*In the "Additional information" field, you can indicate those types of scientific activities that are not included in the proposed rubrics, but you consider them significant for assessing the level of your qualifications and experience for the implementation of the submitted research/development project.*

*Providing inaccurate information will result in the project being withdrawn from the competition.*

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|  |  | |  | |
| CURRICULUM VITAE  Olikh Oleg Yaroslavovych  date of birth\*5 June 1974  citizenship\* Ukraine | | | |
| Contact information\* | | *64/13, Volodymyrska Street, Kyiv, 01033*  *0445213363*  *olegolikh@knu.ua*  *https://gen.phys.univ.kiev.ua/280-olikh/* | |
| Personal profiles in scientometric databases\* | | *https://orcid.org/0000-0003-0633-5429*  *https://www.scopus.com/authid/detail.uri?authorId=6506623724*  *https://publons.com/researcher/4762206/oleg-olikh/*  *https://scholar.google.com.ua/citations?user=9M07CQ0AAAAJ&hl=ua* | |
| Education\* | | *Taras Shevchenko Kyiv University, Faculty of Physics, 1991-1996, Solid State Physics, ЛТ ВЕ№001760* | |
| Degree\* | | *doctor of physical and mathematical sciences, solid state physics, 18.12.2018, Taras Shevchenko National University of Kyiv, ДД №008094* | |
| Academic status\* | | *professor of the General Physics Department, 23.12.2022, АП №004651* | |
| Professional work experience\*  *(for the last 10 years)* | | *01.07.2021 – present, professor at the general physics department, physics faculty, Taras Shevchenko National University of Kyiv, Kyiv (Ukraine)*  *25.11.2002 – 30.06.2021, associate professor at the general physics department, physics faculty, Taras Shevchenko National University of Kyiv, Kyiv (Ukraine)* | |
| Main research activity | | | |
| Management of collective research projects (which received funding on a competitive basis from outside the main place of work)  *(no more than 5 positions in the last 10 years)* | | *Development of physical principles of acoustically controlled modification and machine-oriented characterization of silicon solar cells", Taras Shevchenko Kyiv National University, 2020-2021, 4, grant of the* [*National Research Foundation of Ukraine*](https://nrfu.org.ua/en/) *(registration number 2020.02/0036)* | |
| Participation in collective research projects  *(no more than 5 positions in the last 10 years)* | |  | |
| Individual research projects (which received funding on a competitive basis from a third party)  *(no more than 5 positions in the last 10 years)* | |  | |
| Main scientific achievements | | | |
| Published scientific works\*  *(no more than 10 positions in the last 10 years)* | | *Olikh O., Lozitsky O., Zavhorodnii O. «Estimation for iron contamination in Si solar cell by ideality factor: Deep neural network approach», Progress in Photovoltaics: Research and Applications, 2022, vol.30, is.6, p. 648-660;*  *https://doi.org/10.1002/pip.3539*  *Q1*  *Olikh O., Lytvyn P. «Defect engineering using microwave processing in SiC and GaAs», Semiconductor Science and Technology, 2022, vol.37, is.7, 075006,*  *https://doi.org/10.1088/1361-6641/ac6f17*  *Q2*  *Olikh O., Kostylyov V., Vlasiuk V., Korkishko R., Chupryna R. «Intensification of iron–boron complex association in silicon solar cells under acoustic wave action», Journal of Materials Science: Materials in Electronics, 2022, vol.33, is.13, P. 13133-13142,*  *https://doi.org/10.1007/s10854-022-08252-3*  *Q2*  *Olikh O., Kostylyov V., Vlasiuk V., Korkishko R., Olikh Ya., Chupryna R. «Features of FeB pair light-induced dissociation and repair in silicon n+-p-p+ structures under ultrasound loading», Journal of Applied Physics, 2021, vol.130, is.23, 235703;*  *https://doi.org/10.1063/5.0073135*  *Q2*  *Gorb A.M., Korotchenkov O.A., Olikh O.Ya., Podolian A.O., Chupryna R.G. «Inﬂuence of γ-irradiation and ultrasound treatment on current mechanism in Au-SiO2-Si structure», Solid State Electronics, 2020, vol.165, 107712;*  *https://doi.org/10.1016/j.sse.2019.107712*  *Q2*  *Olikh O.Ya. «Relationship between the ideality factor and the iron concentration in silicon solar cells»,* [*Superlattices and Microstructures*](https://www.sciencedirect.com/science/journal/07496036)*, 2019, vol.136, 106309;*  *https://doi.org/10.1016/j.spmi.2019.106309*  *Q2*  *Olikh O.Ya. «Acoustically driven degradation in single crystalline silicon solar cell»,* [*Superlattices and Microstructures*](https://www.sciencedirect.com/science/journal/07496036)*, 2018, vol.117, p. 173-188;*  *https://doi.org/10.1016/j.spmi.2018.03.027*  *Q2*  *Olikh O.Ya., Voytenko K.V. «On the mechanism of ultrasonic loading effect in silicon-based Schottky diodes»,* [*Ultrasonics*](http://www.sciencedirect.com/science/journal/0041624X)*, 2016, vol.66, p. 1-3;*  *https://doi.org/10.1016/j.ultras.2015.12.001*  *Q1*  *Olikh O.Ya. «Review and test of methods for determination of the Schottky diode parameters», Journal of Applied Physics, 2015, vol.118, is.2, 024502;*  *https://doi.org/10.1063/1.4926420*  *Q2*  *Olikh O.Ya. «Reversible influence of ultrasound on γ-irradiated Mo/n-Si Schottky barrier structure»,* [*Ultrasonics*](http://www.sciencedirect.com/science/journal/0041624X)*, 2015, vol.56, p. 545-550;*  *https://doi.org/10.1016/j.ultras.2014.10.008*  *Q1* | |
| Other significant scientific achievements  *(no more than 5 positions in the last 10 years)* | |  | |
| Teaching activity | | | |
| The main author's educational courses at Higher Education Institutions (developed on the basis of own research)  *(no more than 5 positions in the last 10 years)* | |  | |
| The main author's methodical developments (textbooks, manuals, methodical materials, educational programs for higher education)  *(no more than 5 positions in the last 10 years)* | | *Olikh O.Ya. "Defect research methods", Vinnytsia: "Nilan-LTD" LLC, 2020, 60 p. ISBN 978-966-924-841-1 https://gen.phys.univ.kiev.ua/wp-content/uploads/2022/09/Metodi-doslidzhennya-defektiv-A5.pdf*  *Olikh O.Ya. "Defects in semiconductor and dielectric crystals", Vinnytsia: FOP Korzun D.Yu., 2015, 152 p. https://gen.phys.univ.kiev.ua/wp-content/uploads/2022/09/Olih-Defekti-A5.pdf*  *Olikh O.Ya. "Modern computer technologies. Principles of building computer networks", Kyiv: VOC "Kyiv University", 2015, 479 p. ISBN 978-966-439-740-4 https://gen.phys.univ.kiev.ua/wp-content/uploads/2022/09/Fz5\_Olikh\_s-ISBN-190815.pdf*  *Borovy M.O., Olikh O.Ya., Tsaregradska T.L., Ovsienko I.V., Podolyan A.O., Kozachenko V.V. "General physics for chemists. Tasks collection. Part 3. Optics, elements of quantum mechanics, atomic and nuclear physics", Vinnytsia: "TVORY", 2022, 188 p. ISBN 978-617-552-055-0 https://gen.phys.univ.kiev.ua/wp-content/uploads/2022/10/Opt\_Qm\_At\_Yad\_2022\_02\_\_\_\_22.pdf*  *Borovy M.O., Olikh O.Ya., Ovsienko I.V., Tsaregradska T.L., Kozachenko V.V., Podolyan A.O., Isaev M.V., Dubyk K.V. "General physics for chemists. Tasks collection. Part 2. Electricity and magnetism", Vinnytsia: LLC "CREATIONS", 2019, 164 p. ISBN 978-966-949-195-4 https://gen.phys.univ.kiev.ua/wp-content/uploads/2020/11/ElecMagFinal.pdf* | |
| Supervision of scientific works (scientific supervision or consulting of dissertation studies that have been successfully defended)  *(no more than 5 positions in the last 10 years)* | |  | |
| Expert activity | | | |
| Membership in specialized academic councils for dissertation defense  *(no more than 5 positions in the last 10 years)* | | *D 26.001 .23*  *01.04.05 "Optics, laser physics",*  *01.04.07 "Solid State Physics"*  *Shevchenko National University of Kyiv*  *06/20/2023 - 06/20/2026*  *https://scc.knu.ua/storinka-spetsializovanoi-vchenoi-rady?id=3887* | |
| Participation in expert councils (supervisory, advisory, expert or other councils of scientific, educational or research institutions, enterprises, cultural institutions, scientific publishing houses outside the main place of work)  *(no more than 5 positions in the last 10 years)* | |  | |
| Participation in calls commissions (jury) (all-Ukrainian or international calls, Olympiads, tournaments of research projects, scientific papers, etc.)  *(no more than 5 positions in the last 10 years)* | |  | |
| Scientific and expert activities for authorities (scientific and expert conclusions, comments, conclusions, etc. made at the request or order of authorities and self-government bodies, state structures, institutions, etc.)  *(no more than 5 positions in the last 10 years)* | |  | |
| Scientific review of publications and projects\* (number of anonymous reviews of manuscripts of scientific works submitted for publication in international scientific journals over the past 5 years; author reviews of scientific publications published in specialized periodicals)  *(no more than 5 positions in the last 5 years)* | | ***scientific paper review:***  ***modeling of semiconductor systems (Physica B: Condensed Matter, 2023); influence of defects on the electrophysical properties of silicon structures (Radiation Physics and Chemistry, 2018; Jacobs Journal of Materials Science, 2017); characterization of semiconductor barrier structures by current-voltage characteristics (Journal of Applied Physics, 2017; Solid-State Electronics, 2017; Physica B: Condensed Matter, 2016, 2023 Ukrainian Journal of Physics 2023), ultrasonic non-destructive testing (Ultrasonics, 2017);***  *reviewing the report on the implementation of completed scientific and technical work on the development of functional electronics devices (2019)* | |
| Honors and awards | | | |
| Honorary titles and statuses (honored worker of science and technology, academician, doctor honoris causa, etc.) | |  | |
| Laureate of a prize (awards, honors) of the international or national level, awarded on a competitive basis  *(no more than 5 positions in the last 10 years)* | | *I. Puluj Prize of the National Academy of Sciences of Ukraine for the implementation of controlled acoustic field influence on processes of defect reordering in semiconductors and surface barrier structures* | |
| Awards or honors for scientific achievements (from institutions, departments, authorities and local self-government bodies, etc.)  *(no more than 5 positions in the last 10 years)* | |  | |
| Improvement of scientific qualification | | | |
| Membership in independent scientific organizations (non-institutional professional academic associations, societies, unions, unions of researchers, except trade unions)  *(no more than 5 positions in the last 10 years)* | | *member of the Ukrainian Physical Society* | |
| Additional information on other important scientific achievements, qualifications, competences, or types of scientific activity that are significant for the implementation of the submitted research/development project  *(no more than 5 positions in the last 10 years)* | |  | |
| Foreign languages skills\* | | *English, B2, the presence of more than 10 articles published in English in periodicals that are included in the Scopus scientometric database and are not translations from other languages* | |