CURRICULUM VITAE

Balabanov Anton

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Education:

2017 – B. Sc.	V.N. Karazin Kharkiv National University, Kharkiv, Ukraine (Physics and Astronomy).
2019 – M. Sc.	V.N. Karazin Kharkiv National University, Kharkiv, Ukraine (Physics and Astronomy).

Career/Employment:

2019	Engineer	Institute for Single Crystals NASU, Kharkiv, Ukraine
2019 - at present	Postgraduate	Institute for Single Crystals NASU, Kharkiv, Ukraine

Main field of activity and current research interest:
Materials Science, Crystal Formation, Optical Ceramics, Nanotechnologies

Honors, Awards, Fellowships, Membership of Professional Societies:
Grant of the National Academy of Sciences of Ukraine for Young Scientists (2020); Graduate Student Member of the IEEE (2021); Member of the Ukrainian Materials Science Society named after I.M. Frantsevich (2021).

Publications and patents:
6 Original Articles; Scopus *h*-index: **3**
Web of Science Researcher ID AAJ-4269-2021;
https://publons.com/researcher/4336148/anton-balabanov/publications/
https://www.scopus.com/authid/detail.uri?authorId=57208723059
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https://www.researchgate.net/profile/Anton_Balabanov

Selected Publications:

1. O.S. Kryzhanovska, V.N. Baumer, S.V. Parkhomenko, A.G. Doroshenko, R.P. Yavetskiy, **A.E. Balabanov**, A.V. Tolmachev, S.N. Skorik, Jiang Li, A. Kuncser, Formation peculiarities and optical properties of highly-doped $(Y_{0.86}La_{0.09}Yb_{0.05})_2O_3$ transparent ceramics // Ceramics International 45 (2019) 16005-16010. https://doi.org/10.1016/j.ceramint.2019.05.111. **Q1**.
2. O.S. Kryzhanovska, N.A. Safronova, **A.E. Balabanov**, R.P. Yavetskiy, M.V. Dobrotvorskaya, Jiang Li, S. Petrushenko, A.V. Tolmachev, N.A. Matveevskaya, E.N. Shulichenko, V.Yu. Mayorov, D. Sofronov, Y_2O_3–MgO highly-sinterable nanopowders for transparent

composite ceramics // Functional Materials 26 (2019) 829-837. http://doi.org/10.15407/fm26.04.829. **Q3**.

3. Vorona, **A. Balabanov**, M. Dobrotvorska, R. Yavetskiy, O. Kryzhanovska, L. Kravchenko, S. Parkhomenko, P. Mateychenko, V. Baumer, I. Matolínová. Effect of MgO doping on the structure and optical properties of YAG transparent ceramics // Journal of the European Ceramic Society 40 (2020) 861-866. https://doi.org/10.1016/j.jeurceramsoc.2019.10.048. **Q1**.
4. N.A. Safronova, O.S. Kryzhanovska, M.V. Dobrotvorska, **A.E. Balabanov**, A.V. Tolmachev, R.P. Yavetskiy, S.V. Parkhomenko, R. Brodskii, V.N. Baumer, D.Yu. Kosyanov, O.O. Shichalin, E.K. Papynov, Jiang Li, Influence of sintering temperature on structural and optical properties of Y_2O_3–MgO composite SPS ceramics // Ceramics International 46 (2020) 6537–6543. https://doi.org/10.1016/j.ceramint.2019.11.137. **Q1**.
5. R.P. Yavetskiy, **A.E. Balabanov**, S.V. Parkhomenko, O.S. Kryzhanovska, A.G. Doroshenko, P.V. Mateychenko, A.V. Tolmachev, Jiang Li, Nan Jiang, L. Gheorghe, M. Enculescu, Effect of starting materials and sintering temperature on microstructure and optical properties of Y_2O_3:Yb^{3+} 5 at.% transparent ceramics // Journal of Advanced Ceramics 10 (2020) 49-61. https://doi.org/10.1007/s40145-020-0416-3. **Q2**.
6. N.A. Safronova, R.P. Yavetskiy, O.S. Kryzhanovska, M.V. Dobrotvorska, **A.E. Balabanov**, I.O. Vorona, A.V. Tolmachev, V.N. Baumer, I. Matolínová, D.Yu. Kosyanov, O.O. Shichalin, E.K. Papynov, S. Hau, C. Gheorghe, A novel IR-transparent Ho^{3+}:Y_2O_3–MgO nanocomposite ceramics for potential laser applications // Ceramics International 47 (2021) 1399-1406. https://doi.org/10.1016/j.ceramint.2020.08.263. **Q1**.