CURRICULUM VITAE

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Education:

1980 – M. Sc.	Urals State University, Sverdlovsk, USSR (Physics)
1990 – Ph. D.	Institute for Single Crystals, Kharkov, USSR (Solid-State Physics)
2006	Diploma of Senior Researcher (Solid-State Physics), Institute for Single Crystals NASU, Kharkiv

Career/Employment:

1980-1982	Junior Researcher	Institute of Metals Physics of Urals Department of USSR Academy of Sciences, Sverdlovsk, USSR
1983-1993	Scientific Researcher	Physics-Technical Department of Kharkov State University, Kharkov, Ukraine
1993 till now	Senior Researcher	Institute for Single Crystals NASU, Kharkiv, Ukraine

Main field of activity and current research interest:
Investigations of Surface Composition and Electron Structure of Functional Materials with X-ray Photoelectron Spectroscopy; Optical Ceramics, Nanotechnologies.

Honors, Awards, Fellowships, Membership of Professional Societies:
IWISE (International Women in Science and Engineering) fellow.

Publications and patents:
97 Original Articles, 1 Patent; Scopus *h*-index: **9**
https://www.researchgate.net/profile/Mariya-Dobrotvorskaya/scores
https://www.scopus.com/authid/detail.uri?authorId=57212091837

Selected recent publications:

1. O.O. Matvienko, Yu.N. Savin, O.S. Kryzhanovska, O.M. Vovk, **M.V. Dobrotvorska**, N.V. Pogorelova, V.V. Vashchenko. Dispersion and aggregation of quantum dotes in polymer-inorganic hybrid films // Thin Solid Films 531 (2013) 226-230. **2019IF: 2.030.** https://doi.org/10.1016/j.tsf.2013.03.046. **Q2.**
2. E.I. Rogacheva, A.V. Budnik, M.V. Dobrotvorskaya, A.G. Fedorov, S.I. Krivonogov, P.V. Mateychenko, O.N. Nashchekina, A.Yu. Sipatov. Growth and structure of thermally evaporated Bi_2Te_3 thin films // Thin Solid Films 612 (2016) 128-134. **2019IF: 2.030** https://doi.org/10.1016/j.tsf.2016.05.046. **Q2**.
3. R.P. Yavetskiy, M.V. Dobrotvorskaya, A.G. Doroshenko, A.V. Tolmachev, I.A. Petrusha, V.Z. Turkevich, R. Tomala, D. Hreniak, W. Strek, V.N. Baumer, Fabrication and luminescent properties of $(Y_{0.99}Eu_{0.01})_2O_3$ transparent nanostructured ceramics // Optical Materials 78 (2018) 285-291. **2019IF: 2.776**. https://doi.org/10.1016/j.optmat.2018.02.034. **Q2**.

4. I.O. Vorona, R.P. Yavetskiy, **M.V. Dobrotvorskaya**, A.G. Doroshenko, S.V. Parkhomenko, A.V. Tolmachev, D.Yu. Kosyanov, L. Gheorghe, C. Gheorghe, S. Hau, M. Enculescu. 1532 nm sensitized luminescence and up-conversion in Yb,Er:YAG transparent ceramics // Optical Materials 77C (2018) 221-225. **2019IF: 2.776.** https://doi.org/10.1016/j.optmat.2018.01.038. **Q2**.
5. 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. **2019IF: 3.830**. https://doi.org/10.1016/j.ceramint.2019.11.137, **Q1**.
6. N.A. Safronova, R.P. Yavetskiy, O.S. Kryzhanovska, S.V. Parkhomenko, A.G. Doroshenko, **M.V. Dobrotvorska**, A.V. Tolmachev, R. Boulesteix, A. Maître, T. Zorenko, Yu. Zorenko, Fabrication and VUV luminescence of $Lu_2O_3:Eu^{3+}$ (5 at.%) nanopowders and transparent ceramics, Optical Materials 101 (2020) 109730. **2019IF: 2.776**. https://doi.org/10.1016/j.optmat.2020.109730. **Q2**.
7. I.O. Vorona, A.E. Balabanov, **M.V. Dobrotvorska**, R.P. Yavetskiy, O.S. Kryzhanovska, L.Y. Kravchenko, S.V. Parkhomenko, P.V. Mateychenko, V.N. 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) pp. 861-866. **2019IF: 4.495**. – https://doi.org/10.1016/j.jeurceramsoc.2019.10.048. **Q1**.
8. 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. Matolínova, 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. **2019IF: 3.830**. https://doi.org/10.1016/j.ceramint.2020.08.263, **Q1**.
9. D.Yu. Kosyanov, A.A. Vornovskikh, A.M. Zakharenko, E.A. Gridasova, R.P. Yavetskiy, **M.V. Dobrotvorskaya**, A.V. Tolmachev, O.O. Shichalin, E.K. Papynov, A.Yu. Ustinov, V.G. Kuryavy, A.A. Leonov, S.A. Tikhonov. Influence of sintering parameters on transparency of reactive SPSed Nd^{3+}:YAG ceramics // Optical Materials 112 (2021) 110760. **2019IF: 2.776**. https://doi.org/10.1016/j.optmat.2020.110760. **Q2**.