

CURRICULUM VITAE



Ratner Maryna

Affiliation and official address:

Senior Scientist, Department of Theory of Condensed Matter,
Institute for Single Crystals NAS of Ukraine
61072 Ukraine, Kharkiv, Nauky Ave. 60.
E-mail: marinaratner2017@gmail.com

Education (*degrees, dates, universities*)

2000 - M.S. Kharkiv State University, Ukraine (Physics)
2003 - Ph. D Institute for Single Crystals NASU (Theoretical Physics)

Career/Employment (*employers, positions and dates*)

1996 - 2000	Engineer	B.Verkin Institute for Low Temperature Physics and Engineering NASU, Kharkiv, Ukraine
2000 - 2003	Research Scientist	Institute for Single Crystals NASU, Kharkiv, Ukraine
2003 - data	Senior Research Scientist	Institute for Single Crystals NASU, Kharkiv, Ukraine

Main field of activity and current research interest

Computer modeling and theoretical investigation of nanoparticle properties, in particular of relaxation of a cluster with intrinsic pore or gas-filled pore.

Honors, Awards, Fellowships, Membership of Professional Societies

Award of President of Ukraine for Young Scientists, 2004, " Investigation of structural, electronic and luminescent processes in scintillation crystals and films and new type development
Award of NASU for Young Scientists and Students for Best Scientific Works. 2003.
"Investigation of scintillation processes in inorganic crystals with the purpose of enhancement their functional characteristics for implementation in high energy physics, radiation monitoring and medicine.

Publications

32 original articles, 23 conference materials,
Scopus *h-index*: 5
<https://www.scopus.com/authid/detail.uri?authorId=7102222525>

Selected recent publications:

1. Yanovsky, V.V.; Kopp, M.I.; **Ratner, M.A.** Evolution of vacancy pores in bounded particles, *Functional Materials*, 2019, 26 (1): 131-151.
<https://doi.org/10.15407/fm26.01.131>
2. **Ratner, M.A.**; Yanovsky, V.V. Peculiarities of pore relaxation in nanoclusters. *Functional Materials*, 2016, 612-617
<https://doi.org/10.15407/fm23.04.427>
3. **M. A. Ratner** A, V. Tur V. V. Yanovsky Particularities of Nanoparticle Reflection from a Barrier *Journal of Computational and Theoretical Nanoscience* 12(4):589-594
DOI: 10.1166/jctn.2015.3771