

## LYUBOV M. BURAVTSEVA

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<https://scholar.google.com.ua/citations?user=IioKTjQAAAAJ&hl=ru>



### *Affiliation and address:*

B.Verkin Institute for Low Temperature Physics and Engineering  
of the National Academy of Sciences of Ukraine,  
47 Nauky Ave., 61103 Kharkiv, Ukraine

*Date of birth* : 07.09.1973

*Place of birth*: Eupatoria, Crimea, Ukraine

### *Education:*

1. Kharkiv State University. M.Sc. (Physics; Optics), 1996.
2. B.Verkin Institute for Low Temperature Physics & Engineering, Kharkiv. Postgraduate study (Physics of solid state), 1996-1999.
3. B.Verkin Institute for Low Temperature Physics & Engineering, Kharkiv. Ph.D (Physics of solid state), 2010.

### *Career/Employers:*

B.Verkin Institute for Low Temperature Physics and Engineering, Kharkiv.

1996 - 1999 – Postgraduate student

1999 - 2005 – Engineer

2005 - 2007 – Senior engineer

2007 - 2013 – Junior researcher

2013 - 2017 – Researcher

2017 - till now – Senior researcher

### *Specialization:*

*main field*: spectroscopy of molecular crystals; growth of molecular crystals

### *current research interest:*

Investigation of excited states of molecular crystals of halogen-substituted benzophenones in a wide temperature range; influence of molecules conformation on their optical properties; investigation of amorphous phase of halogen-substituted benzophenones.

### *Publications:*

Number of paper on refereed journals: more than 15

Number of communication to scientific meetings: 15

### *Selected publications:*

1. V.N. Baumer, R.V. Romashkin, M.A. Strzhemechny, A.A. Avdeenko, O.S. Pyshkin, R.I. Zubatyuk, L.M. Buravtseva. *2-Bromobenzophenone*. Acta Crystallographica, **E61**, o1170–o1172 (2005).
2. M.A. Strzhemechny, A.A. Avdeenko, V.V. Eremenko, O.S. Pyshkin, L.M. Buravtseva. *Observation of triplet excimer emission in 2-bromobenzophenone*. Chem. Phys. Lett. **431**, 300-302 (2006).

3. M.A. Strzhemechny, V.N. Baumer, A.A. Avdeenko, O.S. Pyshkin, R.V. Romashkin, L.M. Buravtseva. *Polymorphism of 4-bromobenzophenone*. Acta Crystallographica, **B63**, 296–302 (2007).
4. O.S. Pyshkin, L.M. Buravtseva, V.N. Baumer, R.V. Romashkin, M.A. Strzhemechny, and D.I. Zloba. *Structure and low-temperature time-resolved phosphorescence spectra of crystalline and glassy ortho-bromobenzophenone*. Fiz. Nizk. Temp. **35**, № 7, 739-750 (2009) [Low Temp. Phys. **35**, № 7, 580-588 (2009)].
5. M.A. Strzhemechny, D.I. Zloba, O.S. Pyshkin, L.M. Buravtseva. *Low-temperature phosphorescence and triplet exciton transport in 4-bromobenzophenone polymorphs*. Chem. Phys. Lett. **565**, 61-64 (2013).
6. M.A. Strzhemechny, S.G. Stepanian, D.I. Zloba, L.M. Buravtseva, O.S. Pyshkin, Yu.P. Piryatinski, V.I. Melnik, G.V. Klishevich, L. Adamowicz. *Scenario of temperature-related variation of phosphorescence spectra of ortho-bromobenzophenone crystal*. Chemical Physics **463**, 58-64 (2015).
7. M.A. Strzhemechny, A.I. Krivchikov, A. Jezowski, D.I. Zloba, L.M. Buravtseva, O. Churiukova, Yu.V. Horbatenko. *New thermal conductivity mechanism in triclinic 4-bromobenzophenone crystal*. Chem. Phys. Lett. **647**, 55-58 (2016).
8. D.I. Zloba, O.S. Pyshkin, L.M. Buravtseva, M.A. Strzhemechny. *Phosphorescence of meta-bromobenzophenone crystals over a wide temperature range*. Fiz. Nizk. Temp. **42**, № 3, 304-307 (2016) [Low Temp. Phys. **42**, № 3, 235 (2016)].
9. A. Jezowski, M.A. Strzhemechny, A.I. Krivchikov, N.A. Davydova, D. Szewczyk, S.G. Stepanian, L.M. Buravtseva, and O.O. Romantsova. *Glassy anomalies in the heat capacity of an ordered 2-bromobenzophenone single crystal*. Phys. Rev. B **97**, 201201 (2018).