

Curriculum Vitae

Personal details

Fullname : **Maksym Opanasenko, PhD**
Date of Birth : October 28th, 1984
Place of Birth : Chernihiv, Ukraine
Gender : Male
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Marital Status : married, 1 child

Education and academic degree

2006–2011 Ph.D. degree at the L.V. Pisazhevsky Institute of Physical Chemistry of the National Academy of Sciences of Ukraine, Thesis: “Structure and sorption properties of porous polymeric and composite materials obtained by matrix polymerization”, supervisor: Prof. V. G. Il’in, Dr.Sc.
2001–2006 MS degree at Lomonosov Moscow State University; diploma thesis: “Directed synthesis of potential ligands for melatonin receptors”, under the supervision of N. Lozinskaya, Ph.D.

Professional experience

2016– researcher at UniCRE, Litvinov
2016– research assistant at Charles University in Prague, Department of physical and Macromolecular chemistry, Faculty of science
2011– Postdoctoral research at Heyrovsky Institute of Physical Chemistry, Department of Synthesis and Catalysis

Student supervising

2014– supervisor of PhD student Mgr. Valeryia Kasneryk. PhD project „Multifunctional organic-inorganic materials with tunable textural properties“
2016– supervisor of PhD student Mgr. Yong Zhou. PhD project „Design and catalytic application of novel nanostructured materials“

Abroad Internships

- Visiting Associate at St. Andrews University at the School of Chemistry (Great Britain) under the supervision of Prof. Russell Morris, 24.3.-22.05.2014.

Research interests

- development and application of new organic compounds as structure-directing agents for the synthesis of 2- and 3-D zeolites
- top-down synthesis of layered zeolites and their post-synthesis manipulations (ADOR strategy)
- post-synthesis modification of textural and acidic characteristics of zeolites
- heterogeneous catalysis on zeolites, micro-mesoporous materials and metal–organic-frameworks

Publications

40 publications (ResearcherID F-5202-2014, H-index 14)
12 presentations at international conferences
5 keynote lectures

Working experience

Since 2006 I have been working in the area of material chemistry with special focus on the synthesis of mesoporous molecular sieves, organic-inorganic hybrids and modification of their textural properties for application in adsorption. My PhD work was focused on the matrix synthesis and analysis of structural and adsorptive properties of porous polymers. The influence

of monomer nature, structure of the porous matrix, and conditions of polymerization on structure, adsorption properties and chemical nature of the surface of obtained polymers were established.

After my PhD defense in 2011 I've started my post-doctoral stage in Department of Synthesis and Catalysis at J. Heyrovsky Institute of Physical Chemistry under supervision of Prof. J. Cejka. In the period 2013-2015 I've been a co-investigator of the Project "Preparation of Novel Structure-Directing Agents for the Synthesis of Isomorphously Substituted Zeolites" (GP13-17593P), since 2016 – of the Project "Rational design of hierarchical zeolites for the synthesis of fine chemicals" (17-06524Y). Since 2014 I am a supervisor of PhD project (Valeryia Kasneryk) "Multifunctional organic-inorganic materials with tunable textural properties", since 2016 – PhD project (Yong Zhou) "Design and catalytic application of novel nanostructured materials". In 2016 I joined Department of physical and Macromolecular chemistry at Faculty of science of Charles university as research assistant, while continuing my research work at J. Heyrovsky Institute of Physical Chemistry.

Enclosure – list of publications:

- 1) M. V. Opanasenko, Zh. V. Chernenko and V. G. Il'in, *Theor. Exp. Chem.* 44 (2008) 380. **IF = 0.6**
- 2) M. V. Opanasenko, N. D. Lysenko, A. V. Shvets, and V. G. Il'in, *Theor. Exp. Chem.* 45 (2009) 362. **IF = 0.6**
- 3) M. V. Opanasenko, A. V. Shvets, V. G. Il'in, *Nanosys. Nanomater. Nanotech.* 7 (2009) 661.
- 4) N. D. Lysenko, M. V. Opanasenko, P. S. Yaremov, A. V. Shvets and V. G. Il'in, *Theor. Exp. Chem.* 46 (2010) 51. **IF = 0.6**
- 5) M. V. Shamzhy, O. V. Shvets, M. V. Opanasenko, P. S. Yaremov, L. G. Sarkisyan, P. Chlubná, A. Zukal, V. R. Marthala, M. Hartmann, J. Čejka, *J. Mater. Chem.* 22 (2012) 15793. **IF = 6.6**
- 6) M. Opanasenko, A. Dhakshinamoorthy, M. Shamzhy, P. Nachtigall, M. Horáček, H. Garcia, J. Čejka, *Catal. Sci. Tech.* 3 (2013) 500. **IF = 5.3**
- 7) M. Opanasenko, M. Shamzhy and J. Čejka, *Catal.Today* 204 (2013) 94. **IF = 3.9**
- 8) M. Shamzhy, O. V. Shvets, M. V. Opanasenko, D. Procházková, P. Nachtigall and J. Čejka, *Adv. Por. Mater.* 1 (2013) 103.
- 9) M. Opanasenko, M. Shamzhy and J. Čejka, *ChemCatChem* 4 (2013), 1024. **IF = 4.7**
- 10) M. V. Shamzhy, O. V. Shvets, M. V. Opanasenko, L. Kurfiřtova, and J. Čejka, *ChemCatChem* 5 (2013) 1891. **IF = 4.7**
- 11) M. V. Shamzhy, M. V. Opanasenko, O. V. Shvets and J. Čejka, *Front. Chem.* 1 (2013) 11. doi: 10.3389/fchem.2013.00011
- 12) A. Dhakshinamoorthy, M. Opanasenko, J. Čejka, and H. Garcia, *Adv. Synth. Catal.* 355 (2013) 247. **IF = 6.5**
- 13) M. Opanasenko, A. Dhakshinamoorthy, J. Čejka, H. Garcia, *ChemCatChem* 5 (2013) 1553. **IF = 4.7**
- 14) M. Opanasenko, A. Dhakshinamoorthy, J.-S. Chang, H. Garcia, and J. Čejka, *ChemSusChem* 6 (2013) 865. **IF = 7.1**
- 15) A. Dhakshinamoorthy, M. Opanasenko, J. Čejka, and H. Garcia, *Catal. Sci. Technol.* 3 (2013) 2509. **IF = 5.3**

- 16) M. Kubů, M. Opanasenko, M. Shamzy, *Catal.Today* 227 (2014) 26. **IF = 3.9**
- 17) M. Opanasenko, W. O. Parker Jr., M. Shamzhy, E. Montanari, M. Bellettato, M. Mazur, R. Millini, J. Čejka, *J. Am. Chem. Soc.* 136 (2014) 2511. **IF = 13.0**
- 18) M. V. Opanasenko, M. V. Shamzhy, Ch. Jo, R. Ryoo, J. Čejka, *ChemCatChem* 6 (2014), 1919. **IF = 4.7**
- 19) . M. Shamzhy, M. Mazur, M. Opanasenko, W. J. Roth, J. Čejka, *Dalton Trans.* 43 (2014) 10548. **IF = 4.2**
- 20) M. Almáši, V. Zeleňák, M. Opanasenko, J. Čejka, *Dalton Trans.* 43 (2014) 3730. **IF = 4.2**
- 21) M. Shamzhy, M. Opanasenko, Y. Tian, K. Konysheva, O. Shvets, P. Nachtigall, R. E. Morris and Jiří Čejka, *Chem. Mater.* 26 (2014) 5789. **IF = 9.4**
- 22) P. S. Wheatley, P. Chlubná-Eliášová, H. Greer, W. Zhou, V. Seymour, D. M. Dawson, S. E. Ashbrook, A. B. Pinar, L. B. McCusker, M. Opanasenko, J. Čejka, R. E. Morris, *Angew. Chem. Int. Ed.* 53 (2014) 13210. **IF = 11.7**
- 23) M. Opanasenko, P. Štěpnička, J. Čejka, *RSC Adv.* 4 (2014) 65137. **IF = 3.3**
- 24) M. Almáši, V. Zeleňák, M. Opanasenko, I. Císařová, *Catal. Tod.* 243 (2015) 184. **IF = 3.9**
- 25) M. Opanasenko. *Catal. Tod.* 243 (2015) 2. **IF = 3.9**
- 26) M. Kubů, M. Opanasenko, D. Vitvarová. *Catal. Tod.* 243 (2015) 46. **IF = 3.9**
- 27) A. Zukal, M. Opanasenko, M. Rubeš, P. Nachtigall, J. Jagiello, *Catal. Tod* 243 (2015) 69. **IF = 3.9**
- 28) M. V. Shamzhy, M. V. Opanasenko, H. Garcia and J. Čejka, *Micropor. Mesopor. Mater.* 202 (2015) 297. **IF = 3.5**
- 29) M. Opanasenko, E. Montanari, M. Shamzhy, *ChemPlusChem* 80 (2015) 599. **IF = 3.2**
- 30) M. Shamzhy, M. Opanasenko, F. S. de O. Ramos, L. Brabec, M. Horáček, Marta Navarro-Rojas, R.E. Morris, H. Pastore, J. Čejka, *Catal. Sci. Technol.* 5 (2015) 2973. **IF = 5.3**
- 31) J.-Ch. Kim, R. Ryoo, M. V. Opanasenko, M. V. Shamzhy, J. Čejka, *ACS Catal.* 5 (2015) 2596. **IF = 9.3**
- 32) P. Eliášová, M. Opanasenko¹, P. Wheatley, M. Shamzhy, M. Mazur, P. Nachtigall, W.J. Roth, R. E. Morris, Jiří Čejka, *Chem. Soc. Rev.* (2015) 7177. **IF = 34.1**
- 33) M. V. Shamzhy, C. Ochoa-Hernández, V. I. Kasneryk, M. V. Opanasenko, M. Mazur. *Catal. Today* 277 (2016) 37. **IF = 3.9**

- 34) V. I. Kasneryk, M. V. Shamzhy, M. V. Opanasenko, and J. Čejka. *J. Energy Chem.* 25 (2016) 318. **IF = 2.3**
- 35) M. Opanasenko, M. Shamzhy, F. Yu, W. Zhou, R. E. Morris and J. Čejka. *Chem. Sci.* 7 (2016) 3589. **IF = 9.1**
- 36) C. Palomino Cabello, G. Gómez-Pozuelo, P. Nachtigall, J. Čejka, M. Opanasenko. *ChemPlusChem* 81 (2016) 828. **IF = 3.2**
- 37) J. Jagiello, M. Sterling, P. Eliášová, M. Opanasenko, A. Zukal, R.E. Morris, M. Navaro, A. Mayoral, P. Crivelli, R. Warringham, S. Mitchell, J. Pérez-Ramírez, J. Čejka. *Phys. Chem. Chem. Phys.* 18 (2016) 15269. **IF = 4.4**
- 38) M. V. Opanasenko, W. J. Roth, J. Čejka. *Catal. Sci. Tech.* 6 (2016) 2467. **IF = 5.3**
- 39) M. V. Shamzhy, P. Eliášová, D. Vítvarová, M. V. Opanasenko, D. S. Firth, R. E. Morris. *Chem. Eur. J.* (2016) DOI: 10.1002/chem.201603434 **IF = 5.8**
- 40) V. Kasneryk, M. Shamzhy, M. Opanasenko, S. A. Morris, S. Russell, A. Mayoral, J. Čejka, R. E. Morris. Expansion of the ADOR strategy for the synthesis of new zeolites: The synthesis of IPC-12 from zeolite UOV. *Angew. Chem. Int. Ed.* 10.1002/anie.201700590 **IF = 11.7**