Seznam publikací a jiných výsledků vědecké práce

Mariya Shamzhy Ph.D.

Recenzované články v mezinárodních časopisech (cizojazyčné)*[1] (WOS 25.03.2022)

1. R. Barakov, N. Shcherban, O. Petrov, J. Lang, **M. Shamzhy**, M. Opanasenko, J. Čejka. MWW-type zeolite nanostructures for a one-pot three-component Prins–Friedel–Crafts reaction. Inorg. Chem. Front., 2022, 9(6) 1244-1257 https://doi.org/10.1039/D1QI01497H **IF = 6.5**

2. T. Soták, Z. Magyarová, **M. Shamzhy**, M. Kubů, K. Gołąbek, J. Čejka, M. Hronec. Gas-phase etherification of cyclopentanol to cyclopentyl methyl ether catalyzed by zeolites. Appl. Catal. A, 2021, 618, 118122, https://doi.org/10.1016/j.apcata.2021.118122 **IF=5.7**

3. W. Zhang, Y. Zhou, **M. Shamzhy**, S. Molitorisová, M. Opanasenko, A. Giroir-Fendler. Total oxidation of toluene and propane over supported Co3O4 catalysts: Effect of structure/acidity of MWW zeolite and cobalt loading. Appl. Mater. Interfaces, 2021, 13, 15143–15158 https://pubs.acs.org/doi/abs/10.1021/acsami.0c21999 **IF=9.2**

4. **M. Shamzhy**, B. Gil, M. Opanasenko, W. Roth, J. Čejka. MWW and MFI frameworks as model layered zeolites: structures, transformations, properties, and activity. ACS Catal., 2021, 11, 2366 – 2396 https://pubs.acs.org/doi/10.1021/acscatal.0c05332 *přehledový článek* **IF = 13.0**

5. J. Zhang, O. Veselý, Z. Tošner, M. Mazur, J. Čejka, M. Opanasenko and **M. Shamzhy***. Toward Controlling Disassembly Step within the ADOR Process for the Synthesis of Zeolites. Chem. Mater., 2021, 33, 1228 – 1237 https://pubs.acs.org/doi/10.1021/acs.chemmater.0c03993 **IF=9.8**

6. Y. Zhang, A. Li, M. Sajad, K. Fulajtárová, M. Mazur, M. Kubů, **M. Shamzhy**, M. Hronec, R. Bulánek, J. Čejka. Imidazolium-type ionic liquid-assisted formation of the MFI zeolite loaded with metal nanoparticles for hydrogenation reactions. Chem. Eng. J., 2021, 412, 128599 https://www.sciencedirect.com/science/article/pii/S1385894721001972 **IF=13.2**

7. S. Gutiérrez-Rubio, **M. Shamzhy**, J. Čejka, D.P. Serrano, I. Moreno, J.M. Coronado. Vapor phase acylation of guaiacol with acetic acid over micro, nano and hierarchical MFI and BEA zeolites. Appl. Catal. B, 2021, 285, 119826 https://www.sciencedirect.com/science/article/pii/S0926337320312431 **IF = 19.5**

8. I. Podolean, J. Zhang, **M. Shamzhy**, V.I. Parvulescu, J. Čejka. Solvent-free ketalization of polyols over germanosilicate zeolites: the role of the nature and strength of acid sites. Catal. Sci. Tech., 2020, 10, 8254 – 8264 https://pubs.rsc.org/en/content/articlelanding/2020/cy/d0cy01662d#!divAbstract **IF=6.1**

9. M. Alonso-Doncel, A. Peral, **M. Shamzhy**, J. Čejka, R. Sanza, D.P. Serrano. Fine-tuning hierarchical ZSM-5 zeolite by controlled aggregation of protozeolitic units functionalized with tertiary amine-containing organosilane. Micropor. Mesopor. Mater., 2020, 303, 110189 https://www.sciencedirect.com/science/article/pii/S138718112030192X **IF=5.3**

10. C. J. Heard, L. Grajciar, F. Uhlík, **M. Shamzhy**, M. Opanasenko, J. Čejka and P. Nachtigall. Zeolites (In)Stability Zeolites under Aqueous or Steaming Conditions. Adv. Mater., 2020, 32, 2003264 https://onlinelibrary.wiley.com/doi/full/10.1002/adma.202003264 *přehledový článek* **IF=30.8**

[1] * - korespondenční autor, uvedena standardní dvouletá hodnota IF

11. M. Opanasenko, **M. Shamzhy**, Y. Wang, W. Yan, P. Nachtigall, J. Čejka. Synthesis and post-synthesis transformation of germanosilicate zeolites. Angew. Chem. Int. Ed., 2020, 59 19380–19389 https://onlinelibrary.wiley.com/doi/full/10.1002/anie.202005776 *přehledový článek* **IF=15.3**

12. J. Zhang, Q. Yue, M. Mazur, M. Opanasenko, **M. Shamzhy***, J. Čejka. Selective recovery and recycling of germanium for the design of sustainable zeolite catalysts,.ACS Sust. Chem. & Eng., 2020, 345, 8235–8246 https://pubs.acs.org/doi/10.1021/acssuschemeng.0c01336 **IF=8.1**

13. M. Alonso-Doncel, A. Peral, **M. Shamzhy**, J. Čejka, R. Sanz, D.P. Serrano. Untangling the role of the organosilane functional groups in the synthesis of hierarchical ZSM-5 zeolite by crystallization of silanized protozeolitic units. Catal. Tod., 2020, 345, 27-38 https://www.sciencedirect.com/science/article/pii/S0920586119306479 **IF=6.7**

14. **M. Shamzhy***, J. Přech, J. Zhang, V. Ruaux, H. El-Siblani, S. Mintova. Quantification of Lewis acid sites in 3D and 2D TS-1 zeolites: FTIR spectroscopic study. Catal. Tod., 2020, 345, 80-87 https://www.sciencedirect.com/science/article/pii/S0920586119305620 **IF=6.7**

15. O. Veselý, **M. Shamzhy**, M. Mazur, P. Eliášová. Zeolites in Pechmann condensation: impact of the framework topology and type of acid sites. Catal. Tod., 2020, 345, 97-109 https://www.sciencedirect.com/science/article/pii/S0920586119305565 **IF=6.7**

16. J. Zhang, O. Veselý, **M.V. Shamzhy**, M. Opanasenko, J. Čejka. High activity of Ga-containing nanosponge MTW zeolites in acylation of p-xylene. Catal. Tod., 2020, 345, 110-115 https://www.sciencedirect.com/science/article/pii/S0920586119305425 **IF=6.7**

17. M. Liu, O. Veselý, P. Eliášová, **M. Shamzhy**, P. Lyu, L. Grajciar. Identification of the Most Active Sites for Tetrahydropyranylation in Zeolites: MFI as a test case. Catal. Tod., 2020, 345, 165-174 https://www.sciencedirect.com/science/article/pii/S0920586119304389 **IF=6.7**

18. M. Godino-Ojer, **M. Shamzhy**, J. Čejka, E. Pérez-Mayoral. Basolites: A type of Metal Organic Frameworks highly efficient in the one-pot synthesis of quinoxalines from α-hydroxy ketones under aerobic conditions. Catal. Tod., 2020, 345, 258-266 https://www.sciencedirect.com/science/article/pii/S0920586119304237 **IF=6.7**

19. Y. Zhang, K. Fulajtárová, M. Kubů, M. Mazur, **M. Shamzhy**, M. Hronec, J. Čejka. Controlling dispersion and accessibility of Pd nanoparticles via 2D-to-3D zeolite transformation for shape-selective catalysis: Pd@MWW case. Mater. Today Nano, 8, 2019, 100056 https://www.sciencedirect.com/science/article/pii/S2588842019301257 **IF=8.1**

20. V. Kasneryk, **M. Shamzhy**, J. Zhou, Q. Yue, M. Mazur, A. Mayoral, Zh. Luo, R.E. Morris, J. Čejka, M. Opanasenko. Vapour-phase-transport rearrangement technique for the synthesis of new zeolites. Natur. Com., 2019, 10, 5129 https://www.nature.com/articles/s41467-019-12882-3 **IF=14.9**

21. Y. Zhou, S. A. Kadam, **M. Shamzhy***, J. Čejka, M. Opanasenko*. Isoreticular UTL-Derived Zeolites as Model Materials for Probing Pore Size-Activity Relationships. ACS Catal., 2019, 9, 5136−5146 https://pubs.acs.org/doi/10.1021/acscatal.9b00950 **IF = 13.0**

22. Q. Yue, J. Zhang, **M. Shamzhy**, M. Opanasenko, Seeded growth of isomorphously substituted chabazites in proton-form. Micropor. Mesopor. Mater., 2019, 280, 331-336 https://www.sciencedirect.com/science/article/pii/S138718111930085X **IF=5.3**

23. Y. Zhou, N. Žilková, **M. Shamzhy**, Y. Avadhut, M. Hartmann, J. Čejka, M. Opanasenko. Novel approach towards Al-rich AFI for catalytic application. Appl. Catal. A, 2019, 577, 62-68 https://www.sciencedirect.com/science/article/pii/S0926860X19301279 **IF=5.7**

24. O.V. Shvets, K.M. Konysheva, **M.V. Shamzhy***, M.V. Opanasenko, P.S.Yaremov, Ch. Xiao, X. Zou, J.Čejka. Mordenite nanorods and nanosheets prepared in presence of gemini type surfactants. Catal. Tod., 2019, 324, 115-122 https://www.sciencedirect.com/science/article/pii/S0920586118301895 **IF=6.7**

25. **M. Shamzhy**, M. Opanasenko, P. Concepción and A. Martínez, New trends in tailoring active sites in zeolite-based catalysts. Chem. Soc. Rev., 2019, 48, 1095-1149 https://pubs.rsc.org/en/content/articlelanding/2019/cs/c8cs00887f#!divAbstract *přehledový článek* **IF=54.5**

26. H. Hernando, C. Ochoa-Hernández, **M. Shamzhy**, I. Moreno, J. Fermoso, P. Pizarro, J. M. Coronado, J. Čejka, D. P. Serrano. The crucial role of clay binders on the performance of ZSM-5 based materials for biomass catalytic pyrolysis. Catal. Sci. Tech., 2019, 9, 789-802 https://pubs.rsc.org/en/content/articlelanding/2019/cy/c8cy02116c#!divAbstract **IF=6.1**

27. H. Balcar, M. Kubů, N. Žilková, **M. Shamzhy**, MoO3 on zeolites MCM-22, MCM-56 and 2D-MFI as catalysts for 1-octene metathesis. Beilstein J. Org. Chem., 2018, 14, 2931-2939 https://www.beilstein-journals.org/bjoc/articles/14/272 **IF=2.6**

28. S.A. Kadam, **M.V. Shamzhy**. IR Operando study of Ethanol Dehydration over MFI zeolites: Structure-Activity Relationships. J. Phys. Chem. C, 2018, 122, 24055-24067 https://pubs.acs.org/doi/abs/10.1021/acs.jpcc.8b05697 **IF=4.1**

29. M. Pitínová-Štekrová, P. Eliášová, T. Weissenberger, **M. Shamzhy**, Z. Musilová, J. Čejka. Highly selective synthesis of campholenic aldehyde over Ti-MWW catalysts by α-pinene oxide isomerization. Catal. Sci. Technol., 2018, 8, 4690-4701 https://pubs.rsc.org/en/content/articlelanding/2018/cy/c8cy01231h#!divAbstract **IF=6.1**

30. E. Vyskocilova, A. Gruberova, **M. Shamzhy**, E. Vrbkova, J. Krupka, L. Cerveny. Prins cyclization in 4-methyl-2-phenyl-tetrahydro-2H-pyran-4-ol preparation using smectite clay as catalyst. Reac. Kinet. Mech. Cat., 2018, 124, 711-725 https://link.springer.com/article/10.1007/s11144-018-1371-7 **IF=2.0**

31. M. Stekrova, M. Kubů, **M. Shamzhy**, Z. Musilova, J. Čejka. α-pinene oxide isomerization: Role of zeolite structure and acidity in selective synthesis of campholenic aldehyde. Catal. Sci. Technol., 2018, 8, 2488-2501 https://pubs.rsc.org/en/content/articlelanding/2018/CY/C8CY00371H#!divAbstract **IF=6.1**

32. S.A. Kadam, **M.V. Shamzhy***. IR Operando Study of Ethanol Dehydration over MFI Zeolite. Catal. Tod., 2018, 304, 51-57 https://www.sciencedirect.com/science/article/pii/S0920586117306272 **IF=6.7**

33. V. Kasneryk, **M. Shamzhy**,* M. Opanasenko, P. S. Wheatley, R. Morris, J. Čejka. Insight into the ADOR zeolite-to-zeolite transformation: UOV case. Dalton Trans., 2018, 47, 3084-3092 https://pubs.rsc.org/en/content/articlelanding/2018/dt/c7dt03751a#!divAbstract **IF = 4.3**

34. A. Zukal, **M. Shamzhy**, M. Kubů, J. Čejka. The effect of pore size dimensions in isoreticular zeolites on carbon dioxide adsorption heats. J. CO_2 Utilization, 2018, 24, 157–163 https://www.sciencedirect.com/science/article/pii/S2212982017307278 **IF=7.1**

35. V. Kasneryk, M. Opanasenko, **M. Shamzhy**, Z. Musilová, Y. S Avadhut, M. Hartmann, J. Čejka. Consecutive interlayer disassembly-reassembly during alumination of UOV zeolite: insight into the mechanism. J. Mater. Chem. A, 2017, 5, 22576-22587 https://pubs.rsc.org/en/content/articlelanding/2017/ta/c7ta05935c#!divAbstract **IF=11.3**

36. A. I. Hussain, A. Palani, A. M Aitani, J. Čejka, **M. Shamzhy**, M. Kubů, S. S Al-Khattaf. Catalytic cracking of vacuum gasoil over-SVR, ITH, and MFI zeolites as FCC catalyst additives. Fuel Proces. Tech., 2017, 161, 23–32 https://www.sciencedirect.com/science/article/pii/S0378382016306890 **IF=7.0**

37. 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., 2017, 56, 4324–4327 https://onlinelibrary.wiley.com/doi/full/10.1002/anie.201700590 **IF=15.3**

38. **M.V. Shamzhy***, P. Eliašová, D. Vitvarová, M. V. Opanasenko, D. S. Firth, R. E. Morris. Post-synthesis stabilization of germanosilicate zeolites ITH, IWW and UTL by substitution of Ge for Al. Chem. Eur. J., 2016, 22, 17377–17386 https://chemistry-europe.onlinelibrary.wiley.com/doi/full/10.1002/chem.201603434 **IF=5.2**

39. **M.V. Shamzhy***, C. Ochoa-Hernández, V. I. Kasneryk, M. V. Opanasenko, M. Mazur. Direct incorporation of B, Al, and Ga into medium-pore ITH zeolite: Synthesis, acidic, and catalytic properties, Catal. Tod., 2016, 277, 37–47 https://www.sciencedirect.com/science/article/pii/S0920586115006495 **IF=6.7**

40. H. V. Thang, K. Frolich, **M. Shamzhy**, P. Eliášová, M. Rubeš, J. Čejka, R. Bulánek, P. Nachtigall. The effect of the zeolite channel size on the Lewis acid strength of extra-framework cations. Phys. Chem. Chem. Phys., 2016, 18, 18063–18073 https://pubs.rsc.org/en/content/articlelanding/2016/cp/c6cp03343a#!divAbstract **IF=3.5**

41. V. I. Kasneryk, **M.V. Shamzhy**, M. V. Opanasenko, J. Čejka. Tuning of textural properties of germanosilicate zeolites ITH and IWW by acidic leaching. J. Energy Chem., 2016, 25, 318–326 https://www.sciencedirect.com/science/article/pii/S2095495615001345 **IF=9.6**

42. M. Opanasenko, **M. Shamzhy**, F. Yu, W. Zhou, R. E. Morris, J. Čejka. Zeolite-derived hybrid materials with adjustable organic pillars. Chem. Sci., 2016, 7, 3589–3601 https://pubs.rsc.org/en/content/articlelanding/2016/sc/c5sc04602e#!divAbstract **IF=9.3**

43. J.-Ch. Kim, R. Ryoo, M. V. Opanasenko, **M.V. Shamzhy**, J. Čejka. Mesoporous MFI Zeolite Nanosponge as a High Performance Catalyst in the Pechmann Condensation Reaction. ACS Catal., 2015, 5, 2596–2604 https://pubs.acs.org/doi/10.1021/cs502021a **IF = 13.0**

44. **M. Shamzhy**, F. Solânea de O. Ramos, Tuning of acidic and catalytic properties of IWR zeolite by post-synthesis incorporation of three-valent elements. Catal. Tod., 2015, 243, 76–84 https://www.sciencedirect.com/science/article/pii/S0920586114004829 **IF=6.7**

45. M. Opanasenko, E. Montanari, **M. Shamzhy**. Fabrication of hybrid organic-inorganic materials with tunable porosity for catalytic applications. ChemPlusChem, 2015, 80, 599–605 https://chemistry-europe.onlinelibrary.wiley.com/doi/full/10.1002/cplu.201402346 **IF=2.8**

46. **M.V. Shamzhy**, M. V. Opanasenko, H. Garcia, J. Čejka. Annulation of phenols with methylbutenol over MOFs: the role of catalyst structure and acid strength in producing 2,2-dimethylbenzopyran derivatives. Micropor. Mesopor. Mater., 2015, 202, 297–302 https://www.sciencedirect.com/science/article/pii/S1387181114005770 **IF=5.3**

47. **M. Shamzhy**, M. Opanasenko, F. S. de O. Ramos, L. Brabec, M. Horáček, M. Navaro-Rojas, R.E. Morris, H. Pastore, J. Čejka. Post-synthesis incorporation of Al into germanosilicate ITH zeolite: the influence of treatment conditions on acidic

properties and catalytic behavior in tetrahydropyranylation reaction. Catal. Sci. Technol., 2015, 5, 2973–2984 https://pubs.rsc.org/en/content/articlelanding/2015/cy/c4cy01594k#!divAbstract **IF=6.1**

48. P. Eliášová, M. Opanasenko, P. Wheatley, **M. Shamzhy**, M. Mazur, P. Nachtigall, W.J. Roth, R. E. Morris, J. Čejka. The ADOR mechanism for the synthesis of new zeolites. Chem. Soc. Rev., 2015, 44, 7177–7206 https://pubs.rsc.org/en/content/articlelanding/2015/cs/c5cs00045a#!divAbstract **IF=54.5**

49. **M. Shamzhy**, M. Opanasenko, Y. Tian, K. Konysheva, O. Shvets, P. Nachtigall, R. E. Morris, J. Čejka. Germanosilicate precursors of ADORable zeolites obtained by ITH, ITR and IWR zeolites disassembly. Chem. Mater., 2014, 26, 5789–5798 https://pubs.acs.org/doi/10.1021/cm502953s **IF=9.8**

50. M. V. Opanasenko, **M.V. Shamzhy**, Ch. Jo, R. Ryoo, J. Čejka. Annulation of phenols: catalytic behavior of conventional and 2D zeolites. ChemCatChem, 2014, 6, 1919–1927 https://chemistry-europe.onlinelibrary.wiley.com/doi/full/10.1002/cctc.201402007 **IF=5.6**

51. M. Kubů, M. Opanasenko, **M. Shamzy**. Modification of textural and acidic properties of -SVR zeolite by desilication. Catal. Tod., 2014, 227, 15, 26-32 https://doi.org/10.1016/j.cattod.2013.11.063 **IF=6.7**

52. M. Opanasenko, W. O. Parker Jr., **M. Shamzhy**, E. Montanari, M. Bellettato, M. Mazur, R. Millini, J. Čejka. Hierarchical hybrid organic-inorganic materials with tunable textural properties obtained using zeolitic layered precursor. J. Am. Chem. Soc., 2014, 136, 2511–2519 https://pubs.acs.org/doi/10.1021/ja410844f **IF=15.4**

53. **M. Shamzhy**, M. Mazur, M. Opanasenko, W. J. Roth, J. Čejka. Swelling and Pillaring of Layered Precursor IPC-1P: Tiny Details Determine Everything. Dalton Trans., 2014, 43, 10548–10557 https://pubs.rsc.org/en/content/articlelanding/2014/dt/c4dt00165f#!divAbstract **IF=4.3**

54. **M.V. Shamzhy**, O. V. Shvets, M. V. Opanasenko, L. Kurfiřtova, D. Kubička, J. Čejka. Extra-large pore zeolites with UTL topology: control of the catalytic activity by variation of the nature of active sites. ChemCatChem, 2013, 5, 1891–1898 https://chemistry-europe.onlinelibrary.wiley.com/doi/full/10.1002/cctc.201200925 **IF=5.6**

55. N. Žilková, **M. Shamzhy**, O. Shvets, J. Čejka. Transformation of aromatic hydrocarbons over isomorphously substituted UTL: Comparison with large and medium pore zeolites. Catal. Tod., 2013, 204, 22–29 https://www.sciencedirect.com/science/article/pii/S0920586112006670 **IF=6.7**

56. M. Opanasenko, **M. Shamzhy**, and J. Čejka. The effect of substrate size in the Beckmann rearrangement: MOFs vs. Zeolites. Catal. Tod., 2013, 204, 94–100 https://www.sciencedirect.com/science/article/pii/S0920586112006335 **IF=6.7**

57. M. Opanasenko, **M. Shamzhy**, and J. Čejka. Solid Acid Catalysts for Coumarin Synthesis by the Pechmann Reaction: MOFs versus Zeolites. ChemCatChem, 2013, 5, 1024–1031 https://chemistry-europe.onlinelibrary.wiley.com/doi/full/10.1002/cctc.201200232 **IF=5.6**

58. **M. Shamzhy**, O.V. Shvets, M.V. Opanasenko, D. Procházková, P. Nachtigall, J. Čejka. The effect of synthesis conditions and nature of heteroelement on acidic properties of isomorphously substituted UTL zeolites. Adv. Porous Mater., 2013, 1, 103–113 https://www.ingentaconnect.com/content/asp/apm/2013/00000001/00000001/art00007;jsessionid=3hcvggoush1kb.x-ic-live-02

59. M. Opanasenko, A. Dhakshinamoorthy, **M. Shamzhy**, P. Nachtigall, M. Horacek, H. Garcia, J. Čejka. Comparison of the Catalytic Activity of MOFs and Zeolites in Knoevenagel Condensation. Catal. Sci. Technol., 2013, 3, 500–507 https://pubs.rsc.org/en/content/articlelanding/2013/cy/c2cy20586f#!divAbstract **IF=6.1**

60. **M.V. Shamzhy**, M. V. Opanasenko, O. V. Shvets, J. Čejka. Catalytic performance of Metal-Organic-Frameworks vs. Extra-large pore zeolite UTL in condensation reactions. Front. Chem., 2013, 1, 1–11 https://www.frontiersin.org/articles/10.3389/fchem.2013.00011/full **IF=3.9**

61. **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. Synthesis of isomorphously substituted UTL zeolites. J. Mater. Chem., 2012, 22, 15793–15803 https://pubs.rsc.org/en/content/articlelanding/2012/jm/c2jm31725g#!divAbstract **IF=6.6**

62. O.V. Shvets, **M.V. Shamzhy**, P.S. Yaremov, Z. Musilová, D. Procházková, J. Čejka.Isomorphous introduction of boron in germanosilicate zeolites with UTL topology. Chem. Mater., 2011, 23, 2573–2585 https://pubs.acs.org/doi/10.1021/cm200105f **IF=9.8**

63. W.J. Roth, O.V. Shvets, **M.V. Shamzhy**, P. Chlubná, M. Kubů, P. Nachtigall, J. Čejka. Post-synthesis transformation of three-dimensional framework into a lamellar zeolite with modifiable architecture. J. Am. Chem. Soc., 2011, 133, 6130–6133 https://pubs.acs.org/doi/10.1021/ja200741r **IF=15.4**

Recenzované články v národních časopisech (psané v češtině či slovenštině)

-

Vědecké monografie

-

Kapitoly v monografiích

-

Práce v recenzovaných sbornících

-

Učebnice a učební texty

-

Zvané přednášky

Přednáška typu „*invited speaker*“ na konferencí „Workshop on Layered Materials“ (Třešť, 15 – 19 září, 2015) „TOP-DOWN SYNTHESIS OF ZEOLITIC LAYERS AND THEIR MANIPULATIONS“

Patenty národní a zahraniční

-

Kvalifikační práce

Disertační práce „B-, Al-, Ga- and Fe-containing extra-large pore zeolites with UTL topology: synthesis, structure and catalytic properties“ (Kijev, Ukrajina, 2012)

Rešení grantů

Název	*Status/ Hodnocení poskytovatelem*	*Poskytovatel*	*Roky realizace*	*Roli*
Výzkum katalytické aktivity nových isomorfně substituovaných mikroporézních germanosilikátů https://starfos.tacr.cz/cs/project/GP14-30898P	Ukončený projekt / Vynikající výsledky projektu (s mezinárodním významem atd.)	Grantová agentura České republiky	2014–2016	Řešitel
Pokročilá charakterizace aktivních center v nových zeolitových katalyzátorech https://starfos.tacr.cz/cs/project/GA20-12099S?query_code=4wvyaacigg2q	Běžící víceletý projekt	Grantová agentura České republiky	2020–2022	Řešitel
Od nano-úrovně po atomové inženýrství kyselých center pro selektivní heterogenní katalýzu https://starfos.tacr.cz/cs/project/LL2104?query_code=4rvqaacmy2ia	Začínající víceletý projekt	Ministerstvo školství, mládeže a tělovýchovy	2021–2026	Řešitel

* Jiné závažné práce

Recenzent článků v impaktovaných časopisech (https://publons.com/researcher/2966492/mariya-shamzhy/peer-review/):

Catalysis Today (IF = 6.7): 5 recenzi

ACS Catalysis (IF = 13.0): 3 recenzi

ACS Applied Materials and Interfaces (IF = 9.2): 2 recenzi

Inorganic Chemistry Frontiers (IF = 6.1): 2 recenze

Scientific Reports (IF = 5.1): 1 recenze

RSC Advances (IF = 3.3): 1 recenze

The European Physical Journal Plus (IF = 4.1): 1 recenze

*Abstrakta z mezinárodních konferencí

1. IR Operando Study of Ethanol Dehydration over MFI Zeolites. / Shashikant A. Kadam, **Mariya V. Shamzhy** // 14th European Congress on Catalysis (EUROPACAT 2019). – August 18-23, 2019: abstr. – Aachen, Germany. – **2019**.
2. Accessing pore structure of IPC zeolites using carbon dioxide adsorption heats. / **M. Shamzhy**, A. Zukal, M. Kubů, J. Čejka // International Symposium on Zeolites and Microporous Crystals (ZMPC 2018). – September 5-9, 2018: abstr. – Yokohama, Japan. – **2018**. – PA011.
3. 3D and 2D MFI zeolites as acid catalysts: a comparative study. / **M.V. Shamzhy**, M. Opanasenko, J.-Ch. Kim, H. S. Shin, R. Ryoo, J. Čejka// 13th European Congress on Catalysis (EUROPACAT 2017). – August 27-31, 2017: abstr. – Florence, Italy. – **2017**.
4. Hierarchical zeolite-derived hybrids with adjustable organic pillars for catalytic application. / **M.V. Shamzhy**, M. Opanasenko, J. Čejka// 7th FEZA Conference “The ZEOLITES: Materials with Engineered Properties” – July 3-7, 2017: abstr. – Sofia, Bulgaria. – **2017**.

5. Fabrication of hybrid organic-inorganic materials with tunable porosity for catalytic application / **M. Shamzhy**, M. Opanasenko // 5th International conference on Multifunctional, hybrid and nanomaterials. – March 6-10, 2017: abstr. - Lisbon, Portugal – **2017**
6. Post-synthesis stabilization of germanosilicate zeolites by isomorphous substitution. / **M. Shamzhy**, M. Opanasenko, P. Eliašová // 18th International zeolite conference. – June 19 – 26, 2016: abstr. - Rio de Janejro, Brazil - **2016**
7. Advantages of MOFs as catalysts: comparison with zeolites / **M.V. Shamzhy**, M.V. Opanasenko // 38th BZA Annual Meeting. – July 26-31, 2015: abstr. – Chester, UK. – **2015**. – P. 66.
8. Incorporation of 3-valent elements in germanosilicate zeolite ITH: direct vs. post-synthesis approach. / **M.V.Shamzhy**, C. Ochoa-Hernandez, M.V. Opanasenko // 6th Czech-Italian-Spanish Conference on Molecular Sieves and Catalysis. – June 14-17, 2015: abstr. – Amantea, Italy. – **2015**. – P. W2-2.
9. Advantages and perspectives of MOFs as catalysts: comparison with zeolites. / **M. Shamzhy**, M. Opanasenko // 6th International FEZA Conference. – September 8 – 11, 2014: abstr. – Leipzig, Germany – **2014**