FLPP
FUNDAMENTĀLO UN LIETIŠĶO PĒTĪJUMU PROJEKTI

Projekta Izp-2018/1-0315 rezultāti

Uz sēra dioksīda kā reaģenta un polāras reakcijas vides pielietojuma balstītas jaunas sintēzes metodoloģijas augstas pievienotās vērtības produktu ieguvei

Oriģināli zinātniskie raksti, kas publicēti zinātniskos žurnālos, rakstu krājumos vai konferenču rakstu krājumos, kuri ir indeksēti datu bāzēs Web of Science Core Collection, SCOPUS vai ERIH PLUS

1. Suta, K.; Turks, M. In(III) and Hf(IV) Triflate-Catalyzed Hydration and Catalyst-free Hydrohalogenation of Aryl Acetylenes in Liquid Sulfur Dioxide. - ACS Omega, 2018, 3 (12), 18065-18077, https://doi.org/10.1021/acsomega.8b01630

2. Gulbe, K.; Lugiņina, J.; Jansons, E.; Kinens, A.; Turks, M. Metal-free glycosylation with glycosyl fluorides in liquid SO2. - J. Org. Chem., 2021, 17, 964-976, https://doi.org/10.3762/bjoc.17.78

3. Blum, S. P.; Schollmeyer, D.; Turks, M.; Waldvogel, S. R. Metal- and Reagent-Free Electrochemical Synthesis of Alkyl Arylsulfonates in a Multi-Component Reaction. - Chem. Eur. J., 2020, 26 (38), 8358-8362, https://doi.org/10.1002/chem.202001180

4. Beļaunieks, R.; Puriņš, M.; Kumpiņš, V.; Turks, M. Synthesis of 3-Silylated 3-Sulfolenes from Propargylsilanes and their Reductive Desulfitation. - Chem. Heterocycl. Compd., 2021, 57 (1), 20-25, https://doi.org/10.1007/s10593-021-02862-1

5. Gulbe, K.; Turks, M. R. Synthesis of Sulfones via Ru(II)-Catalyzed Sulfination of Boronic Acids. - J. Org. Chem., 2020, 85 (8), 5660-5669, https://doi.org/10.1021/acs.joc.9b03403

6. Purins, M.; Mishnev, A.; Turks, M. Bronsted Acid Catalyzed 1,2-Silyl Shift in Propargyl Silanes: Synthesis of Silyl Dienes and Silyl Indenes. - J. Org. Chem., 2019, 84 (6), 3595-3611, https://doi.org/10.1021/acs.joc.8b02735

7. Beląunieks, R.; Puriņš, M.; Turks, M. Manifestation of the β-Silicon Effect in the Reactions of Unsaturated Systems Involving a 1,2-Silyl Shift. – Synthesis, 2020, 52 (15), 2147-2161, https://doi.org/10.1055/s-0039-1690898

8. Leškovskis, K.; Gulbe, K.; Mishnev, A.; Turks, M. Ring opening of methylenecyclopropanes with halides in liquid sulfur dioxide. - Tetrahedron Lett., 2020, 61 (46), https://doi.org/10.1016/j.tetlet.2020.152528

Zinātniskās datubāzes un datu kopas, kas izstrādātas projekta ietvaros

1. Mikus Puriņš, Anatoly Mishnev, Māris Turks. CCDC 1848624: Experimental Crystal Structure Determination: Methyl 1-butyl-2-[t-butyl(dimethyl)silyl]-1H-indene-6-carboxylate. 2018. https://doi.org/10.5517/ccdc.csd.cc24qqwh

2. Kristaps Leškovskis, Krista Gulbe (neé Suta), Anatoly Mishnev, Māris Turks. CCDC 1935449: Experimental Crystal Structure Determination: t-Butyl [4-(5-chloropent-2-en-2-yl)phenyl]carbamate. 2019. https://doi.org/10.5517/ccdc.csd.cc22yzvw

3. Stephan P. Blum, Dieter Schollmeyer, Maris Turks, Siegfried R. Waldvogel. CCDC 1988057: Experimental Crystal Structure Determination: 2,2-Dimethylpropyl 3,4,5-trimethoxybenzene-1-sulfonate. 2020. https://doi.org/10.5517/ccdc.csd.cc24qqwh

Reģistrēts intelektuālais īpašums

1. Kristaps Leškovskis, Krista Gulbe (neé Suta), Māris Turks. Homoalilhalogenīdu iegūšana šķidrā sēra dioksīdā. Patenta nr. 15526.