

Teaduspublikatsioonid 2017

List of Publications of the Laboratory of Inorganic Materials 2017

1.1.ⁱ Teadusartiklid, mis on kajastatud Thomson Reuters Web of Science andmebaasis (v.a. Thomson Reuters Conference Proceedings Citation Index poolt refereeritud kogumikud) ja/või Euroopa Teadusfondi humanitaarteaduste loendi ERIH (European Reference Index of the Humanities) kategooriates INT1 ja INT2 ja/või andmebaasis Scopus (v.a. kogumikud);

1. Tamm, K.; Viires, R.; Kuusik, R.; Uibu, M. (2017). Calcium extraction from Estonian industrial wastes based on Ammonium solvents. *WIT Transactions on Ecology and the Environment*, 224, 465–476.
2. Kaljuvee, T., Štubňa, I., Húlan, T., Kuusik, R. (2017). Heating rate effect on the thermal behavior of some clays and their blends with oil shale ash additives. *Journal of Thermal Analysis and Calorimetry*, 127, 33–45.10.1007/s10973-016-5347-4.
3. Ben Moussa, S.; Lachheb, J.; Gruselle, M.; Maaten, B.; Kriis, K.; Kanger, T.; Tõnsuaadu, K.; Badraoui, B. (2017). Calcium, Barium and Strontium apatites: A new generation of catalysts in the Biginelli reaction. *Tetrahedron*, 73 (46), 6542–6548.10.1016/j.tet.2017.09.051.
4. Gruselle, M.; Tõnsuaadu, K. (2017). Tunable calcium-apatites as solid catalysts for classical organic reactions. *Current Organic Chemistry*, 21 (8), 688–697.10.2174/1385272821666161219155302.
5. Sarapuu, A.; Kreek, K.; Kisand, K.; Kook, M.; Uibu, M.; Koel, M.; Tammeveski, K. (2017). Electrocatalysis of oxygen reduction by iron-containing nitrogen-doped carbon aerogels in alkaline solution. *Electrochimica Acta*, 230, 81–88.10.1016/j.electacta.2017.01.157.
6. Põldsalu, Inga; Harjo, Madis; Peikola, Anna-Liisa; Tamm, Tarmo; Uibu, Mai; Kiefer, Rudolf (2017). Inkjet-printed hybrid conducting polymer-activated carbon aerogel linear actuators driven in an organic electrolyte. *Sensors and Actuators B: Chemical*, 250, 44–51.10.1016/j.snb.2017.04.138.
7. Vassiljeva, V.; Kirikal, K.-K.; Hietala, S.; Kaljuvee, T.; Mikli, V.; Rahn, M.; Tarasova, E.; Krasnou, I.; Viirsalu, M.; Savest, N.; Plamus, T.; Javed, K.; Krumme, A. (2017). One-step carbon nanotubes grafting with styrene-co-acrylonitrile by reactive melt blending for electrospinning of conductive reinforced composite membranes. *Fullerenes, Nanotubes and Carbon Nanostructures*. [ilmumas]
8. Húlan, T., Trník, A., Kaljuvee, T., Uibu, M., Štubňa, I., Kallavus, U., Traksmäa, R. (2017). The study of firing of a ceramic body made from illite and fluidized combustion fly ash. *Journal of Thermal Analysis and Calorimetry*, 127, 79–89.
9. Kubliha, M.; Trnovcová, V.; Ondruška, J.; Štubňa, I.; Bošák, O.; Kaljuvee, T. (2017). Comparison of dehydration in kaolin and illite using DC conductivity measurements. *Applied Clay Science*, 149, 8–12.10.1016/j.clay.2017.08.012.

1.2. Teadusartiklid teistes rahvusvahelistes teadusajakirjades, millel on registreeritud kood, rahvusvaheline toimetis, rahvusvahelise kolleegiumiga eelretsenseerimine, rahvusvaheline levik ning kättesaadavus ja avatus kaastöödele; artik

10. Kärner, K.; Elomaa, M.; Kallavus, U.; Tõnsuaadu, K. (2017). Controlled nanocrystalline precipitation of hydroxyapatite on the surface of microfibrillated cellulose fibers. *International Journal of Recent Scientific Research*, 8 (10), 20803–20809.10.24327/ijrsr.2017.0810.0963.

3.1. Artiklid/peatükid lisas loetletud kirjastuste välja antud kogumikes (kaasa arvatud Thomson Reuters Book Citation Index, Thomson Reuters Conference Proceedings Citation Index, Scopus refereeritud kogumikud);

11. Húlan, T.; Knapek, M.; Csáki, Š.; Kaljuvee, T.; Uibu, M. (2017). Assessing the Frost Resistance of Illite-based Ceramics through the Resonant Frequency of Free Vibration and Internal Damping. Proceedings of Thermophysics 2017, 1866: 22nd International Meeting of Thermohysics 2017 and 4th Meeting of EnRe 2017, Terchova Slovakia, 12-14 September 2017. AIP Conference Proceedings, 1–7. (1).10.1063/14994495.
12. Uibu, M.; Viires, R.; Kuusik, R. (2017). MC Technologies Developed for Waste Materials. In: Sanna, A.; Maroto-Valer, M. M. (Ed.). CO2 Sequestration by Ex-Situ Mineral Carbonation (91–131). World Scientific Publishing Co.10.1142/9781786341600_0004.
13. Tamm, K.; Kallas, J.; Kuusik, R.; Uibu, M. (2017). Modelling Continuous Process for Precipitated Calcium Carbonate Production from Oil Shale Ash. Energy Procedia, 114, 5409–5416. 10.1016/j.egypro.2017.03.1685.
14. Kostov-Kytin, V., Petkova, V., Kaljuvee, T. (2017). Powder XRD microstructural analysis of thermally treated synthetic fluor-hydroxylapatite. Bulgarian Chemical Communications, 49: VI-th National Crystallographic Symposium, Sofia Bulgaria, 5-7 October 2016. Bulgarian Academy of Sciences, Union of Chemists in Bulgaria, 59–70. (Special Issue A).

3.4. Artiklid/ettekanded, mis on avaldatud valdkonda 3.1. mittekuuluvates konverentsikogumikes

15. Tamm, K.; Viires, R.; Zuravljova, A.; Otto, K.; Kuusik, R.; Uibu, M. (2017). Calcium Extraction from Estonian Industrial Ash with Ammonium Solvents for Production of Precipitated Calcium Carbonate. In: International IX Oil Shale Conference 2017 „Oil shale industry in circular economy“ (28–29). Oil Shale Competence Centre (OSCC).

5.2. Konverentsiteesid, mis ei kuulu valdkonda 5.1.

16. Tamm, K.; Viires, R.; Kuusik, R.; Uibu, M. (2017). Calcium extraction from Estonian industrial wastes based on ammonium solvents. Energy and Sustainability 2017: 7th International conference on Energy and Sustainability. Wessex Institute of Technology Press.
17. Kaljuvee, T., Jefimova, J., Loide, V., Uibu, M., Einard, M, Kuusik, R. (2017). Influence of the post-granulation treatment on the thermal behaviour of Estonian oil shale ashes. In: Book of Abstracts of the 1st Journal of Thermal Analysis and Calorimetry Conference and 6th V4 Thermoanalytical Conference, Budapest Hungary, June 6-9, 2017.
18. Kaljuvee, T., Jefimova, J., Loide, V., Uibu, M., Einard, M., Kuusik, R. (2017). Granulation of oil shale ashes for neutralizing of acidic soils. In: Abstracts Book of the International IX Oil Shale Conference 2017, Oil shale industry in circular economy (16–17).
19. Csáki, Š.; Kaljuvee, T.; Štubňa, I.; Dobroň, P.; Vozár, L. (2017). Influence of oil shale ash addition on thermophysical processes in an illitic clay during heating. In: Book of Abstracts of The 15th Conference & Exhibition of the European Ceramic Society July 9–13, 2017, Budapest, Hungary (579). ECerS2017: The 15th Conference&Exhibition of the European Ceramic Society, Budapest Hungary, July 9-13, 2017. AKCongress.
20. Tomaš, H.; Trník, A.; Kaljuvee, T.; Uibu, M.; Štubňa, I.; Kallavus, U.; Traksmäa, R. (2017). The study of firing of a ceramic body made from illite and fluidized bed combustion fly ash. Book of Abstracts of the 1st Journal of Thermal Analysis and Calorimetry Conference and the 6th V4 Thermoanalytical Conference: The 1st Journal of Thermal Analysis and Calorimetry Conference and the 6th V4 Thermoanalytical Conference. AKCongress,
21. Luik, Helen; Solnson Malle; Tamm, Kadriann; (2017). Composition of ashes and leaching properties in the modernised oil shale industry. Baltic Science Network Partner meeting, Turku/Åbo, Finland, 26.04.2017 - 27.04.2017. Baltic Science Network.

22. Peikolainen, Anna-Liisa; Priimägi, Priit; Kasemägi, Heiki; Zadin, Vahur; Brandell, Daniel; Uibu, Mai; Aabloo, Alvo (2017). Tuning of carbon xerogel for Na-ion battery anode. In: Program Guide and Abstracts (506).Solid State Ionics- 21st International Conference, Padua- Italy, June 18-23, 2017.

ⁱ ETISE klassifikaatori alusel (according to classification of Estonian Research Information System)