

Cubic iron core–shell nanoparticles functionalized to obtain high-performance MRI contrast agents

Volokhova, Maria; Shugai, Anna; Tsujimoto, Masahiko; Kubo, Anna-Liisa; Telliskivi, Sven; Nigul, Mait; Uudeküll, Peep; Vija, Heiki; Bondarenko, Olesja; Adamson, Jasper; Kahru, Anne; Stern, Raivo; Seinberg, Liis *Materials* 2022 / art. 2228
<https://doi.org/10.3390/ma15062228> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Deep oxidative desulfurization of planar compounds over functionalized metal-organic framework UiO-66(Zr): An optimization study

Barghi, Bijan; Mõistlik, Tanel; Raag, Anastassia; Volokhova, Maria; Reile, Indrek; Seinberg, Liis; **Mikli, Valdek; Niidu, Allan** *ACS omega* 2024 / p. 23329-23338 <https://doi.org/10.1021/acsomega.3c09971>

Electrocatalytic oxidation of hydroxide ions by Co₃O₄ and Co₃O₄@SiO₂ nanoparticles both at particle ensembles and at the single particle level

Xie, Ruo-Chen; Volokhova, Maria; Boldin, Aleksei; Seinberg, Liis; Tsujimoto, Masahiko; Yang, Minjun; Rasche, Bertold; Compton, Richard G. *ChemElectroChem* 2020 / p. 1261– 1276 : ill <https://doi.org/10.1002/celec.202000230>

Magnetic nanomaterials synthesis and functionalization for biomedical applications = Magnetiliste nanomaterjalide süntees ja funktsionaliseerimine biomeditsiiniliste rakenduste jaoks

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Performance of UiO-66-NH₂ on oxidation of debenzothiophene from a model fuel : optimization using response surface methodology

Barghi, Bijan; Niidu, Allan; Raag, Anastassia; Jürisoo, Martin; Volokhova, Maria; Mikli, Valdek Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 8 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

Process optimization for catalytic oxidation of dibenzothiophene over UiO-66-NH₂ by using a response surface methodology

Barghi, Bijan; Jürisoo, Martin; Volokhova, Maria; Seinberg, Liis; Reile, Indrek; **Mikli, Valdek; Niidu, Allan** *ACS omega* 2022 / p. 16288-16297 : ill <https://doi.org/10.1021/acsomega.1c05965> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Synthesis of Ni@SiO₂ and Co@SiO₂ nanomagnets after formation of NiO and Co₂O₃ nanoparticles at low temperatures using CaH₂

Volokhova, Maria; Boldin, Aleksei; Link, Joosep; Tsujimoto, Masahiko; Stern, Raivo; Seinberg, Liis *Journal of materials research and technology* 2022 / p. 988-992 : ill <https://doi.org/10.1016/j.jmrt.2021.12.042> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Synthesis of zwitterionic dopamine sulfonate coated cubic core-Fe@SiO₂ nanoparticles and their magnetic properties analysis

Volokhova, Maria; Boldin, Aleksei; Link, Joosep; Shugai, Anna; Pehk, Tõnis; Stern, Raivo; Seinberg, Liis *Materials* 2023 / 6 p. : ill