

### **Improving the oxygen barrier of polyamide food packaging by using nanoclay**

Paara, Tõnis; Lange, Sven; Saal, Kristjan; Lõhmus, Rünno; **Krumme, Andres**; Mändar, Hugo Materials science = Medžiagotyra 2022 / p. 217-223 <https://doi.org/10.5755/j02.ms.28868> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Performance of TiO<sub>2</sub>:Sm<sup>3+</sup> based optical sensor embedded in cavitated polymer films**

Tikk, Taavi; Lange, Sven; Paara, Tõnis; Eltermann, Marko; **Krumme, Andres** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 82 <http://fntdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

### **Performance of TiO<sub>2</sub>:SM<sup>3+</sup> based optical sensor embedded in cavitated polymer films**

Tikk, Taavi; Lange, Sven; Paara, Tõnis; Eltermann, Marko; **Krumme, Andres** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 62 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

### **TiO<sub>2</sub>:Sm<sup>3+</sup> based luminescent oxygen sensitive probes in LDPE packaging material**

Tikk, Taavi; Paara, Tõnis; Eltermann, Marko; **Krumme, Andres**; Jaaniso, Raivo; Kiisk, Valter; Lange, Sven Proceedings of the Estonian Academy of Sciences 2017 / p. 450-454 : ill <https://doi.org/10.3176/proc.2017.4.16> [https://artiklid.einet.ee/record=b2830833\\*est](https://artiklid.einet.ee/record=b2830833*est) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Using nano-additives to increase the oxygen barrier of polymers [Online resource]**

Paara, Tõnis; Lange, Sven; **Krumme, Andres** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fntdk.ut.ee/teesid-2018/>