

### **Bidirectional Mo4/3CTx MXene/graphene aerogels for tailored microwave absorption**

Shamshirgar, Ali Saffar; Qin, Lei; **Rojas-Hernandez, Rocio Estefania**; Halim, Joseph; Fernandez, Jose F.; **Hussainova, Irina**; Rosen, Johanna ACS Applied Nano Materials 2025 / p. 1978–1990 <https://doi.org/10.1021/acsnm.4c06555>

### **Characterization of organosolv lignins and their application in the preparation of aerogels**

**Jõul, Piia**; Ho, Tran T.; **Kallavus, Urve**; **Konist, Alar**; **Leiman, Kristiina**; **Salm, Olivia-Stella**; **Kulp, Maria**; **Koel, Mihkel**; **Lukk, Tiit** Materials 2022 / art. 2861 <https://doi.org/10.3390/ma15082861> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **K2CO3-containing composite sorbents based on a ZrO2 aerogel for reversible CO2 capture from ambient air**

Veselovskaya, Janna; **Derevshchikov, Vladimir**; Shalygin, Anton S.; Yatsenko, Dmitry Microporous and Mesoporous Materials 2021 / art. 110624 <https://doi.org/10.1016/j.micromeso.2020.110624> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Organic acid catalyzed synthesis of 5-methylresorcinol based organic aerogels in acetonitrile**

**Peikolainen, Anna-Liisa**; **Volobujeva, Olga**; **Aav, Riina**; **Uibu, Mai**; **Koel, Mihkel** Journal of porous materials 2012 / p. 189-194 : ill [https://www.researchgate.net/publication/228068858\\_Organic\\_acid\\_catalyzed\\_synthesis\\_of\\_5-methylresorcinol\\_based\\_organic\\_aerogels\\_in\\_acetonitrile](https://www.researchgate.net/publication/228068858_Organic_acid_catalyzed_synthesis_of_5-methylresorcinol_based_organic_aerogels_in_acetonitrile)

### **Preparation of metal-doped carbon aerogels from oil shale processing by-products**

**Kreek, Kristiina**; **Kulp, Maria**; **Uibu, Mai**; **Mere, Arvo**; **Koel, Mihkel** Oil shale 2014 / p. 185-194 : ill [https://artiklid.elnet.ee/record=b2673721\\*est](https://artiklid.elnet.ee/record=b2673721*est) <https://doi.org/10.3176/oil.2014.2.08> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)