

Jméno, příjmení, titul žadatele:

Given name, surname, academic degree of student:

Ing. Martin Šilhavík

Seznam publikovaných prací:

List of publications:

Vztažené k tématu disertace

Related to the dissertaion

Šilhavík, M.; Kumar, P.; Zafar, Z. A.; Míšek, M.; Čičala, M.; Piliarik, M.; Červenka, J. Anomalous Elasticity and Damping in Covalently Cross-Linked Graphene Aerogels. *Commun. Phys.* 2022, 5 (1), 1–8.

Počet citací: 2

Kumar, P.; Šilhavík, M.; Zafar, Z. A.; Červenka, J. Contact Resistance Based Tactile Sensor Using Covalently Cross-Linked Graphene Aerogels. *Nanoscale* 2022, 14 (4), 1440–1451.

Počet citací: 0

Šilhavík, M. et al. High-Temperature Fire Resistance and Self-Extinguishing Behavior of Cellular Graphene. *ACS Nano* - **Under review**.

Patent

Šilhavík, M., Kumar, P. Zafar, Z. A., Červenka, J. Highly Thermally Insulating and Electrically Conductive Graphene Aerogel and Method of Manufacturing Thereof. LU502730 - **Pending**.

Ostatní publikace

Other publications

Zafar, Z. A.; Abbas, G.; Knizek, K.; Silhavik, M.; Kumar, P.; Jiricek, P.; Houdková, J.; Frank, O.; Cervenka, J. Chaotropic Anion Based "Water-in-Salt" Electrolyte Realizes a High Voltage Zn-Graphite Dual-Ion Battery. *J. Mater. Chem. A* **2022**, *10* (4), 2064–2074.

Počet citací: 4

Zafar, Z. A.; Abbas, G.; Silhavik, M.; Knizek, K.; Kaman, O.; Sonia, F. J.; Kumar, P.; Jiricek, P.; Houdková, J.; Frank, O.; Cervenka, J. Reversible Anion Intercalation into Graphite from Aluminum Perchlorate "Water-in-salt" Electrolyte. *Electrochimica Acta* **2022**, *404*, 139754.

Počet citací: 3

Hývl, M.; Müller, M.; Stuchlíková, T.-H.; Stuchlík, J.; Šilhavík, M.; Kočka, J.; Fejfar, A.; Červenka, J. Nucleation and Growth of Metal-Catalyzed Silicon Nanowires under Plasma. *Nanotechnology* **2020**, *31* (22), 225601.

Počet citací: 1

Šilhavík, M.; Müller, M.; Stuchlík, J.; Stuchlíková, H.; Klementová, M.; Kočka, J.; Fejfar, A.; Červenka, J. Comparative Study of Catalyst-Induced Doping and Metal Incorporation in Silicon Nanowires. *Appl. Phys. Lett.* **2019**, *114* (13), 132103.

Počet citací: 6

Patent

Zafar, Z. A., Silhavik, M.; Cervenka, J.; An Aqueous-Based Energy Storage System Containing an Electrolyte of Metal Perchlorate. LU101731B1, October 14, 2021.