

### **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](#)

### **Experimental determination of the interaction potential between a helium atom and the interior surface of a C60 fullerene molecule**

Bacanu, George Razvan; Jafari, Tanzeeha; Aouane, Mohamed; Rantaharju, Jyrki; Walkey, Mark; Hoffman, Gabriela; Shugai, Anna; Nagel, Urmias; Jimenez-Ruiz, Monica; Horsewill, Anthony J.; Rols, Stephane; Rõõm, Toomas; Whitby, Richard J.; Levitt, Malcolm H. The Journal of chemical physics 2021 / art. 144302 <https://doi.org/10.1063/5.0066817>

### **Ne, Ar, and Kr oscillators in the molecular cavity of fullerene C60**

Jafari, Tanzeeha; Shugai, Anna; Nagel, Urmias; Bacanu, George Razvan; Aouane, Mohamed; Jimenez-Ruiz, Monica; Rols, Stephane; Bloodworth, Sally; Walkey, Mark; Hoffman, Gabriela; Whitby, Richard J.; Levitt, Malcolm H.; Rõõm, Toomas The Journal of chemical physics 2023 / art. 234305 : ill <https://doi.org/10.1063/5.0152628>

### **Squeezing formaldehyde into C60 fullerene**

Vyas, Vijyesh K.; Bacanu, George Razvan; Soundararajan, Murari; Marsden, Elizabeth S.; **Jafari, Tanzeeha**; Shugai, Anna; Light, Mark E.; Nagel, Urmias; Rõõm, Toomas; Levitt, Malcolm H.; Whitby, Richard J. Nature Communications 2024 / art. 2515

<https://doi.org/10.1038/s41467-024-46886-5> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Synthesis of zwitterionic dopamine sulfonate coated cubic core $\alpha$ -Fe@SiO<sub>2</sub> 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

### **Terahertz spectroscopy of the helium endofullerene He@C60**

Jafari, Tanzeeha; Bacanu, George Razvan; Shugai, Anna; Nagel, Urmias; Walkey, Mark; Hoffman, Gabriela; Levitt, Malcolm H.;

Whitby, Richard J.; Rõõm, Toomas Physical chemistry chemical physics 2022 / p. 9943–9952 : ill <https://doi.org/10.1039/d2cp00515h>