# Electronic Supplementary Information for

# Compression and deposition of microgel monolayers from fluid interfaces: particle size effects on interface microstructure and nanolithography†

**Laura Scheidegger,[a] Miguel Ángel Fernández-Rodríguez,[a] Karen Geisel, [b] Michele Zanini,[a] Roey Elnathan,[c] Walter Richtering, [b] and Lucio Isa[a]***

**DOI: 10.1039/C6CP07896F**

0[a] *Laboratory for Interfaces, Soft matter and Assembly, Department of Materials, ETH Zurich, Vladimir-Prelog-Weg 5, 8093 Zurich, Switzerland; E-mail: lucio.isa@mat.ethz.ch*

0[b] *Institute of Physical Chemistry, RWTH Aachen University, Landoltweg 2, 52056 Aachen, Germany.*

0[c] *ARC Centre of Excellence in Convergent Bio-Nano Science and Technology, Future Industries Institute, University of South Australia, Mawson Lakes, 5095, Australia.*

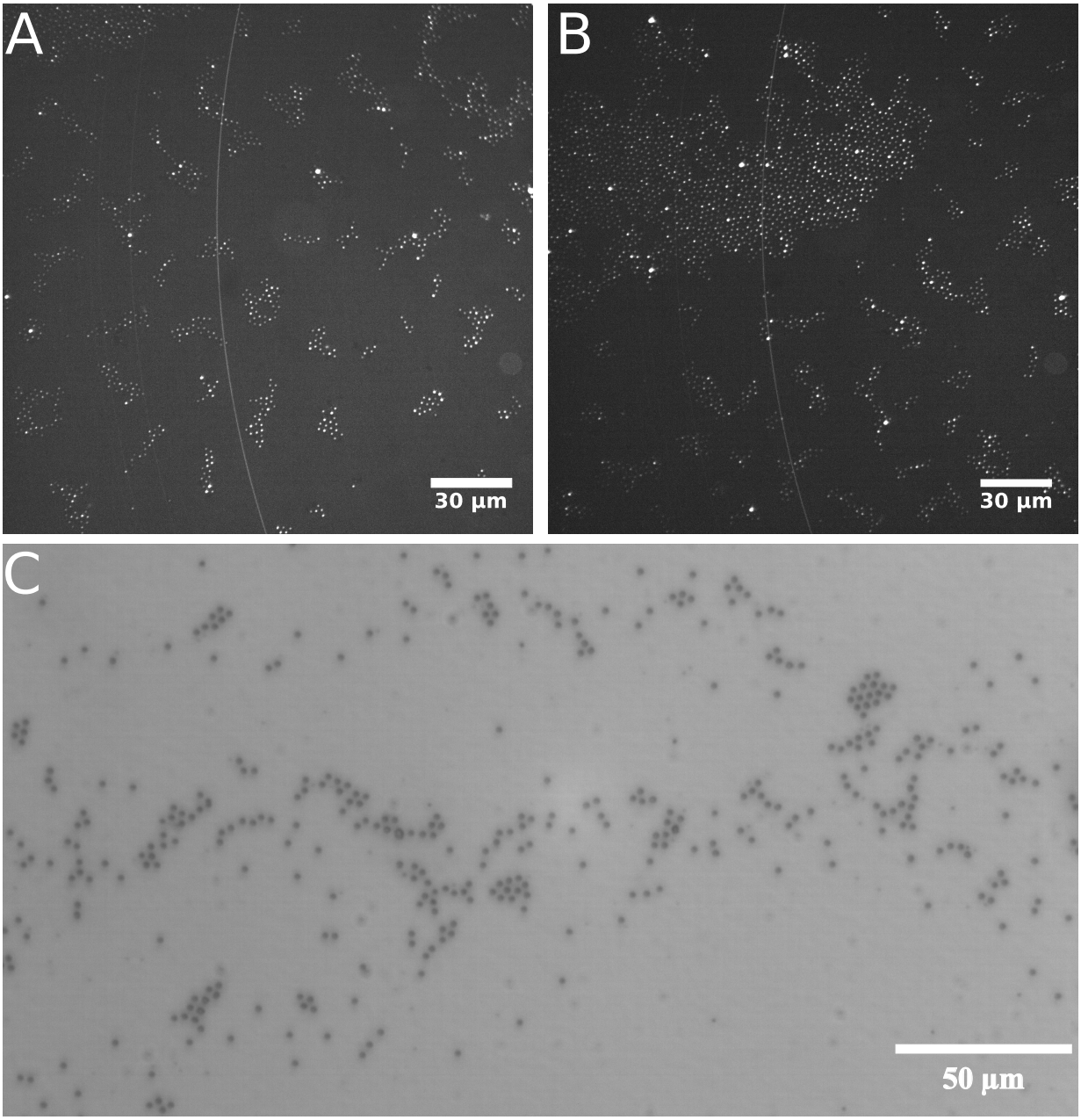


**Fig. S1. A-B**. Fluorescent confocal images of the Big microgels adsorbed at water/hexadecane interfaces. **C**. Optical microscope image of the Big microgels deposited at a silicon substrate at very low surface pressure.

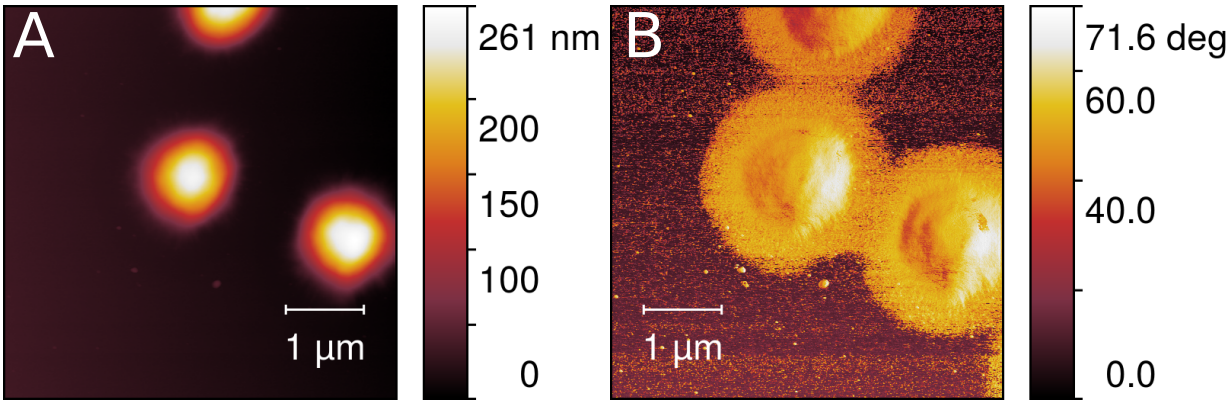


**Fig. S2. A)** Height and **B)** Phase AFM image of Big microgels at a very low surface pressure where it can be seen that the very flat shells are in contact.