

Supplementary Information

Permeability and selectivity of PPO/graphene composites as mixed matrix membranes for CO₂ capture and gas separation.

Riccardo Rea ¹, Simone Ligi ², Meganne Christian ³, Vittorio Morandi ³,
Marco Giacinti Baschetti ¹, Maria Grazia De Angelis ^{1,*}

¹ Dipartimento di Ingegneria Civile, Chimica, Ambientale e dei Materiali (DICAM), Università di Bologna, Via Terracini 28, 40131 Bologna, Italy; riccardo.rea3@unibo.it (R.R.); marco.giacinti@unibo.it (M.G.B.)

² Graphene XT s.r.l., 40131 Bologna, Italy; simone.ligi@graphene-xt.com

³ CNR-IMM Section of Bologna, via Gobetti, 101-40129 Bologna, Italy; christian@bo.imm.cnr.it (M.C.); morandi@bo.imm.cnr.it (V.M.)

* Correspondence: grazia.deangelis@unibo.it (M.G.D.A); Tel.: +39-051-2090410

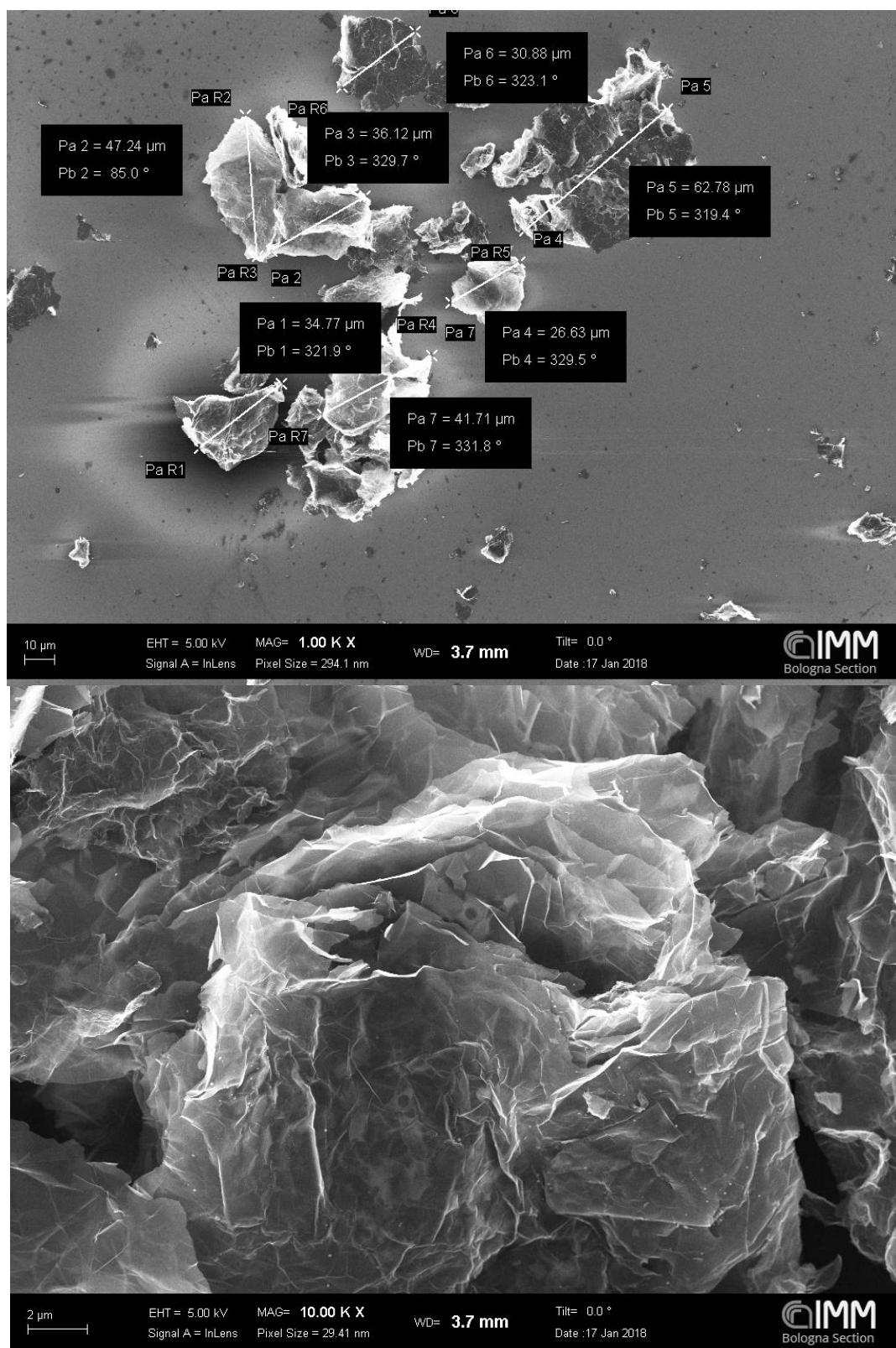


Figure S1: SEM images of a sample of Graphene XT 7 dispersed in water and sonicated for 10 min.

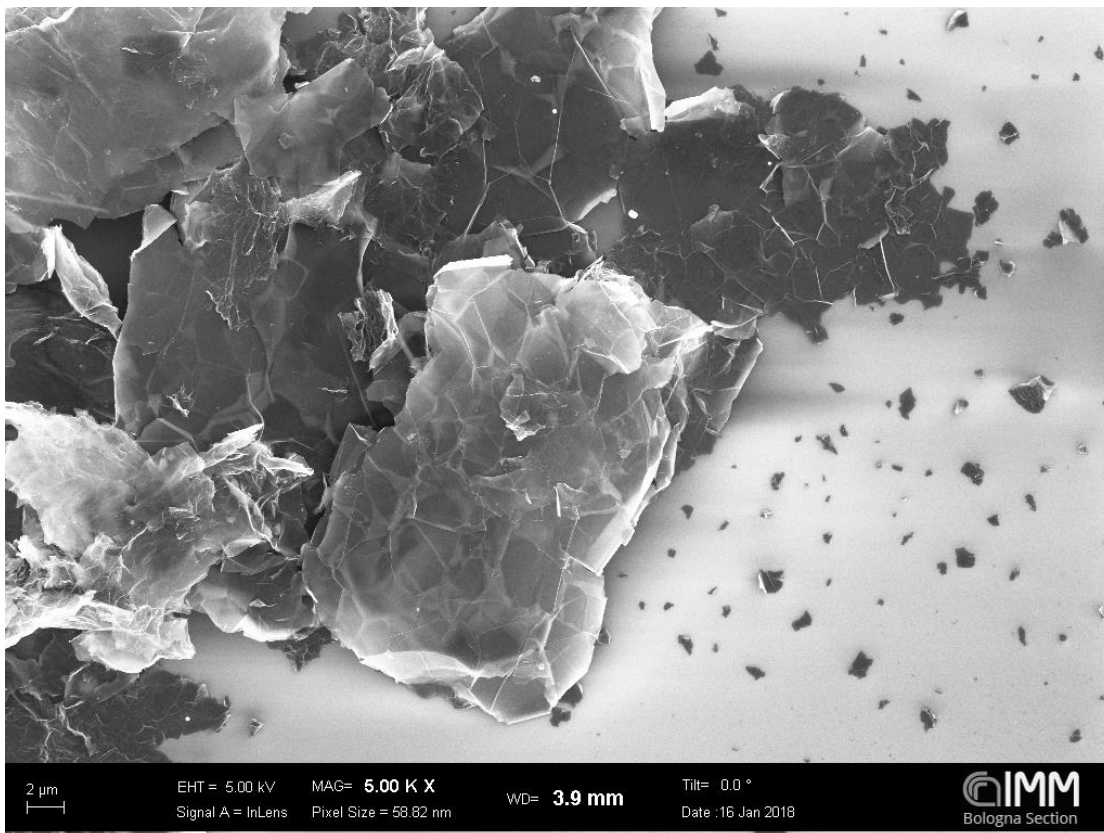
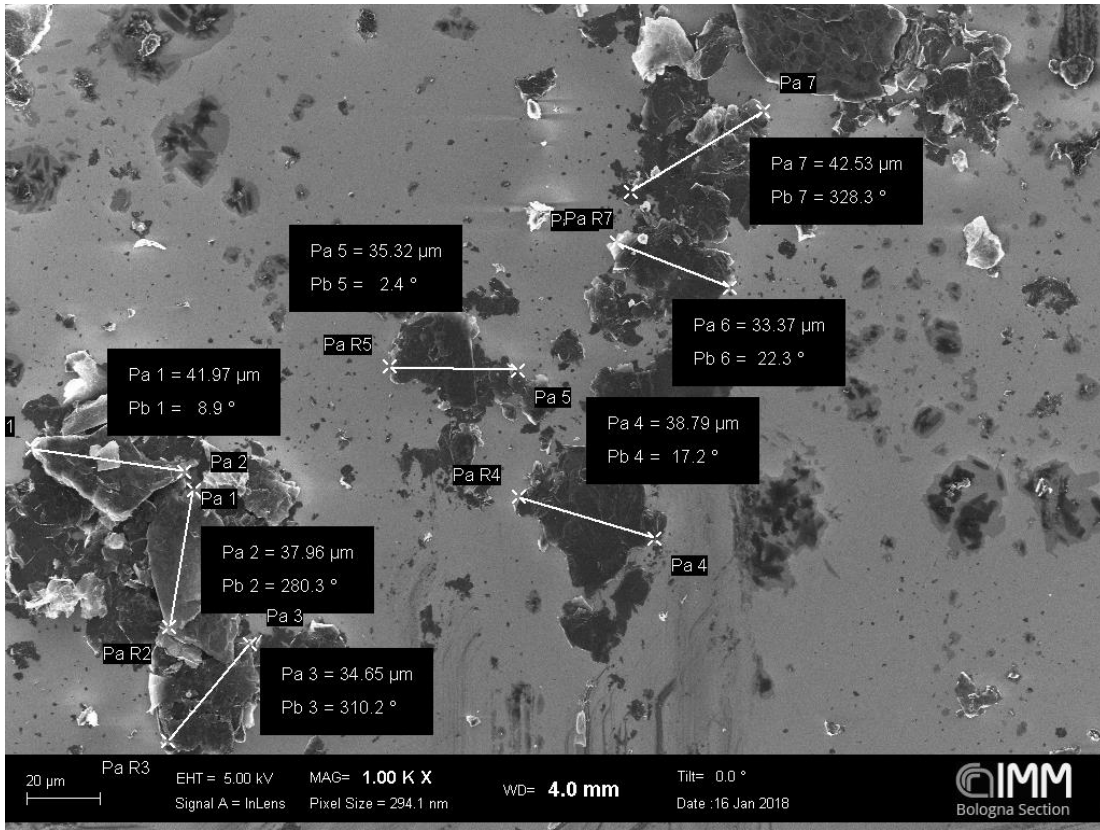


Figure S2: SEM images of a sample of Graphene XT 7 dispersed in water and sonicated for 15 h.