Publications

P1) “Quantum crossover in moderately damped epitaxial NbN/MgO/NbN junctions with low critical current density”, L. Longobardi, D. Massarotti, G. Rotoli, D. Stornaiuolo, G. Papari, A. Kawakami, G.P. Pepe, A. Barone, and F. Tafuri, Appl. Phys. Lett. 99, 062510 (2011)

P2) “Feasibility of a High Temperature Superconductor rf-SQUID based on Biepitaxial Josephson Junction Technology”, L. Longobardi, D. Stornaiuolo, G. Papari, and F.Tafuri, IEEE Trans. on Appl. Supercond. 21, 151 (2011)

P3) “High quality factor HTS Josephson junctions on low loss substrates”, D. Stornaiuolo, G. Papari, N. Cennamo, F. Carillo, L. Longobardi, D. Massarotti, A. Barone and F.Tafuri, Supercond. Science and Technology 24, 045008 (2011)

P4) “Thermal hopping and retrapping of a Brownian particle in the tilted periodic potential of a NbN/MgO/NbN Josephson junction”, L. Longobardi, D. Massarotti, G. Rotoli, D. Stornaiuolo, G. Papari, A. Kawakami, G.P. Pepe, A. Barone and F. Tafuri, accepted in Phys. Rev. B (2011)

P5) “High critical-current density and scaling of phase-slip processes in YBaCuO nanowires”

G. Papari, F. Carillo, D. Stornaiuolo, L. Longobardi, F. Beltram and F. Tafuri, submitted (2011)

P6) “Energy scales in YBaCuO grain boundary biepitaxial Josephson junctions”, F. Tafuri, D. Stornaiuolo, P. Lucignano, L. Galletti, L. Longobardi, D. Massarotti, D. Montemurro, G. Papari, A. Barone and A. Tagliacozzo, submitted (2011)

+ two publications, which are currently in preparation