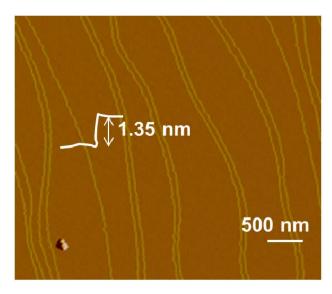
Supporting information for

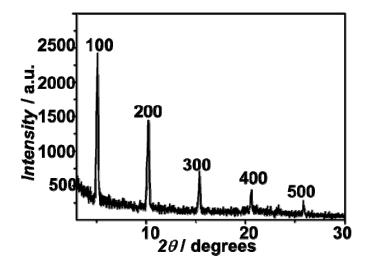
High performance n-type single crystalline transistors of naphthalene bis(dicarboximide) and their anisotropic transport in crystals

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Figure S1: AFM image of F-NDI single crystal surface



¹⁰ Figure S2: Powder XRD pattern of F-NDI micro crystals.



‡Crystal Data of F-NDI. The measurements were made on a Rigaku Saturn CCD area detector with graphite monochromated Mo-K α radiation (λ 0.71073 Å) at 173 K. All calculations were performed using the CrystalStructure crystallographic software package and SHELXL-97. C22 H8F14N2O4, M = 630.30, T = 173 (2) K, colorless plate, crystal dimension 0.27 × 0.23 × 0.05 mm, V = 2206(8) Å3, s.u. values 0.000-0.001, crystal system monoclinic, space group P2/c, a = 17.379(4) Å, b = 7.7605(16) Å, c = 16.708(3) Å, α = 90.00°, β = 101.77(3)°, γ = 90.00°, Z = 4, Dc = 1.898 g/cm3, μ = 0.208 mm-1, θ range 2.39-27.51°. Of the 5038 reflections that were collected, 3814 were unique (Rint = 0.0633), GOF = 1.169. Final R values R1 = 0.0833, wR2 = 0.1476.