



Supporting Information

for

Biocompatible organic–inorganic hybrid materials based on nucleobases and titanium developed by molecular layer deposition

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Beilstein J. Nanotechnol. **2019**, *10*, 399–411. [doi:10.3762/bjnano.10.39](https://doi.org/10.3762/bjnano.10.39)

Additional figures and tables

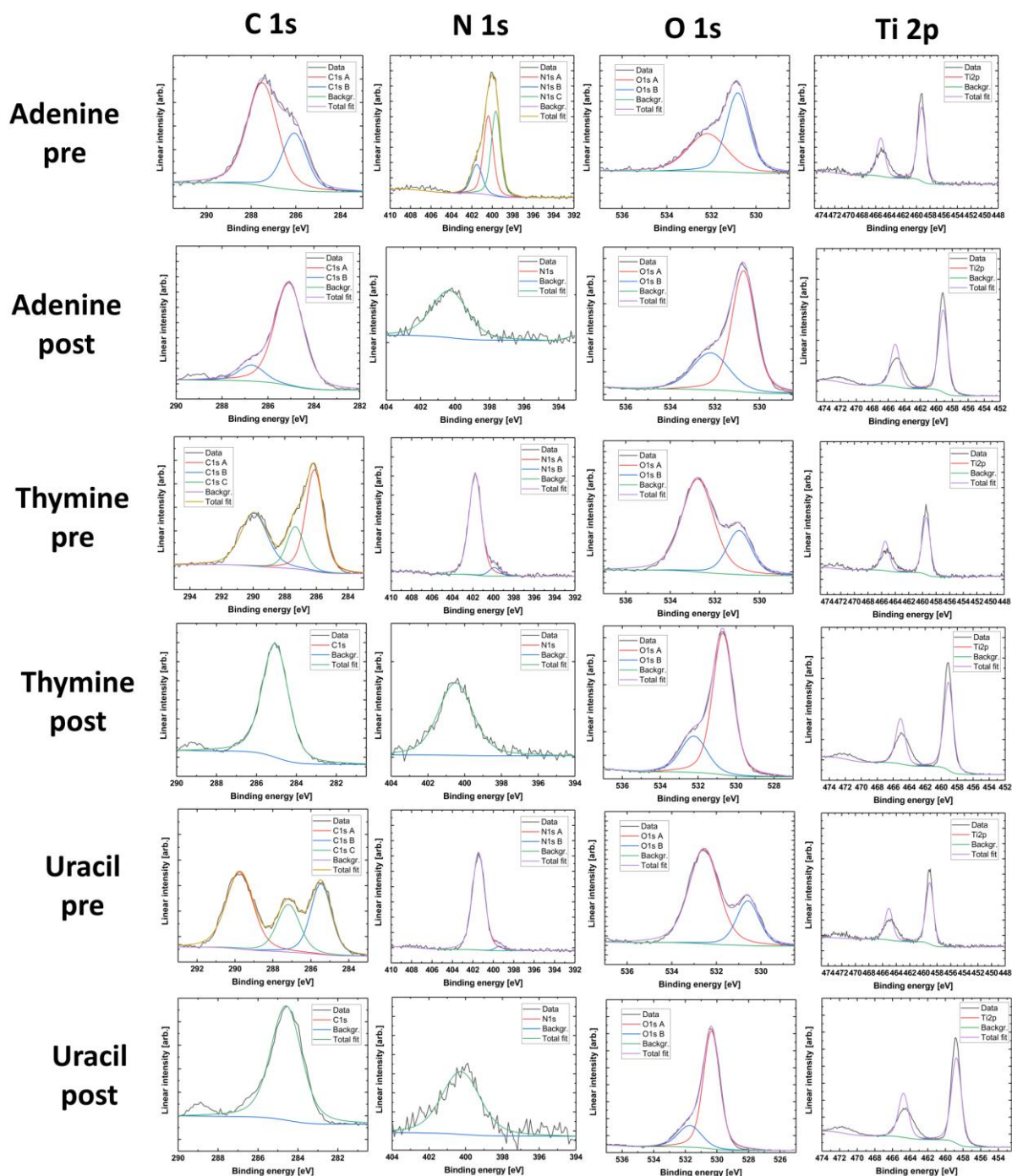


Figure S1: Carbon 1s, nitrogen 1s, oxygen 1s and titanium 2p XPS data with accompanying peak fits (Avantage), for adenine, thymine and uracil hybrid Ti-films prior to and post water treatment.

Table S1: Elemental analysis in the top layer of the hybrid Ti-films of adenine, thymine and uracil prior to and post water treatment, as measured by XPS.

	Adenine pre [%]	Adenine post [%]	Thymine pre [%]	Thymine post [%]	Uracil pre [%]	Uracil post [%]
Carbon (C 1s)	43.1	36.87	49.46	31.02	44.71	29.24
Nitrogen (N 1s)	33.82	2.24	18.50	3.18	20.79	1.50
Oxygen (O 1s)	17.32	46.46	27.95	49.74	30.25	51.45
Titanium (Ti 2p)	5.76	14.43	4.09	16.06	4.25	17.81

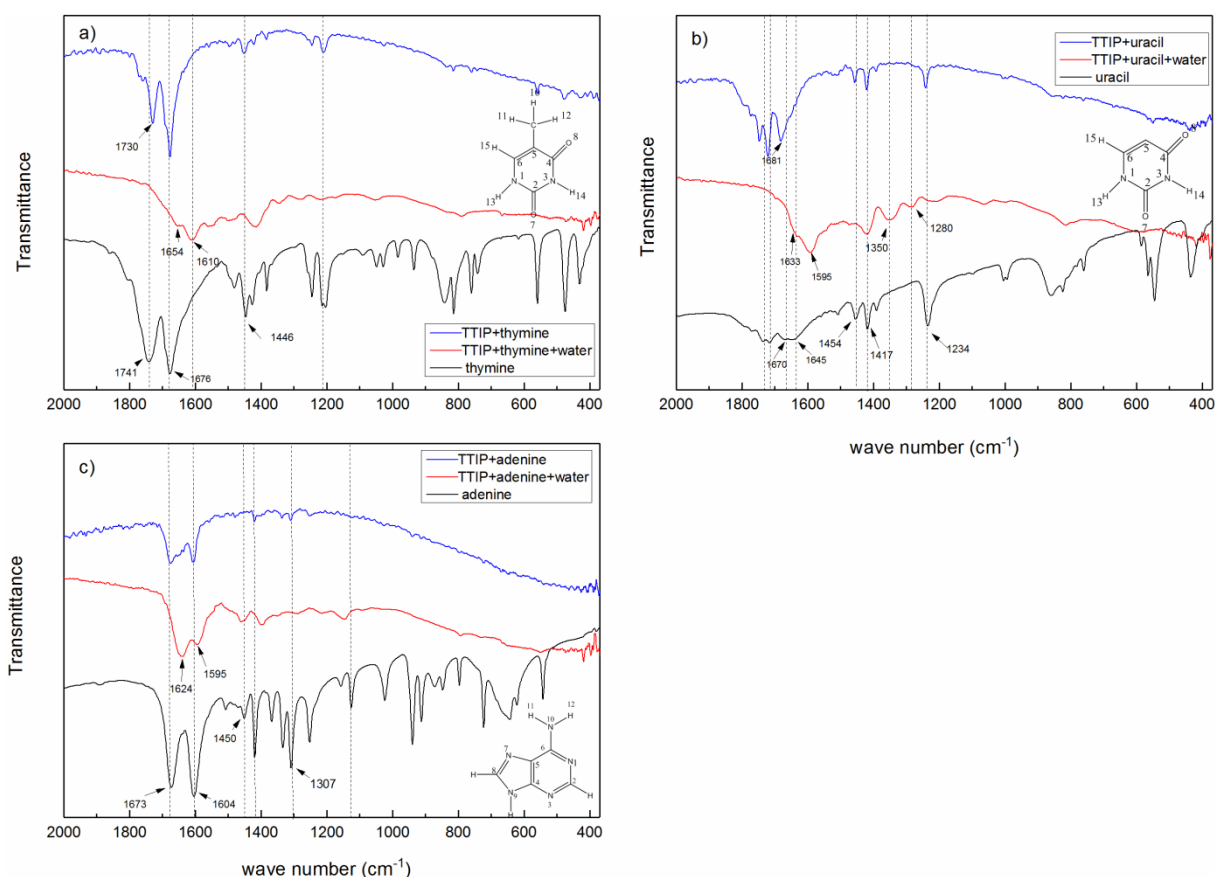


Figure S2: FTIR spectra of (a) thymine powder (black line), hybrid film based on TTIP/p/thymine/p/water/p pulse sequence (red line) and hybrid film based on TTIP/p/thymine/p pulse sequence (blue line) (b) uracil powder (black line), hybrid film based on TTIP/p/uracil/p/water/p pulse sequence (red line) and hybrid film based on TTIP/p/uracil/p pulse sequence (blue line) (c) adenine powder (black line), hybrid film based on TTIP/p/adenine/p/water/p pulse sequence (red line) and hybrid film based on TTIP/p/adenine/p pulse sequence (blue line)

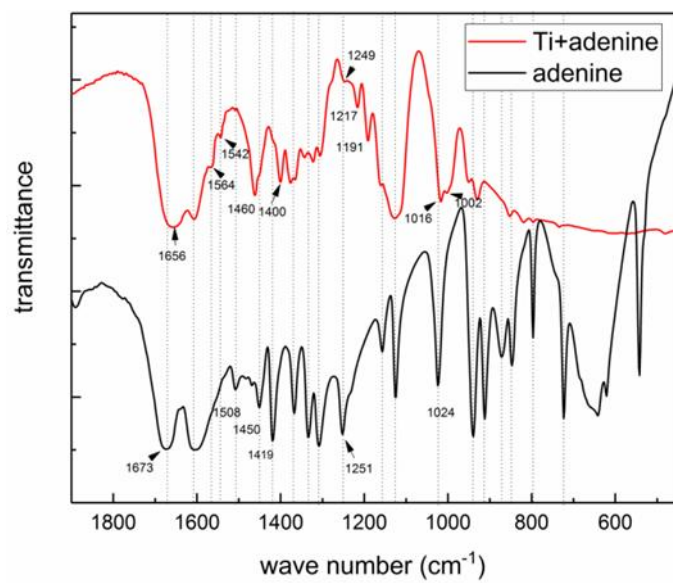


Figure S3: FTIR spectra of adenine pressed in KBr pellet (black line) and Ti-adenine complex (red line).