

Electronic Supplementary Material for PCCP
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Table S1: Integral cross sections (over the half-space angle) for electron induced vibrational excitation of molecules in a thin film of condensed adenine, in units of 10^{-17} cm^2 .

E_0 (eV)	Energy loss (meV)												
	64	84	106	126	154	174	194	204	385	435	415	335	353
1.5	3.3	2.7	1.9	0.9	1.0	1.1	0.9	1.1	0.7	1.0	0.5	0.03	0.3
2	4.0	3.2	2.5	1.4	1.2	1.6	1.3	1.8	1.3	1.7	0.6	0.07	0.4
3	6.3	5.1	4.2	2.2	2.1	2.6	2.2	2.6	2.3	2.3	0.9	0.1	0.6
4	6.7	5.0	4.2	2.2	2.3	2.7	1.9	2.7	2.2	1.6	0.7	0.1	0.6
5	8.6	6.1	5.2	3.4	3.6	4.3	4.1	3.3	3.4	1.9	1.3	0.6	1.0
6	3.0	2.2	1.7	1.2	1.6	1.7	1.7	1.2	1.2	0.5	0.5	0.4	0.6
7	2.7	2.7	1.9	1.2	0.6	2.0	0.8	2.0	1.2	0.4	0.5	0.3	0.6
8	1.9	1.6	1.3	0.9	1.8	1.4	1.2	1.1	0.9	0.3	0.3	0.3	0.4
9	1.4	1.2	0.84	0.8	1.0	1.1	0.6	0.8	0.6	0.2	0.2	0.2	0.3
10	1.6	1.3	1.1	0.9	1.0	1.1	0.9	0.7	0.6	0.3	0.2	0.09	0.3
11	1.6	1.3	1.0	0.7	0.7	1.0	0.6	0.6	0.5	0.1	0.1	0.09	0.2
11.5	2.3	2.0	1.4	1.0	0.9	1.3	0.8	0.8	0.7	0.2	0.2	0.1	0.3
12	3.0	2.4	1.6	1.1	0.9	1.3	1.1	0.7	0.6	0.2	0.2	0.2	0.2

Table S2: Integral cross sections (over the half-space angle) for electron induced excitation of molecules in a thin film of condensed adenine, in units of 10^{-18} cm^2 . The difference between the deconvoluted energy-loss spectrum and the remaining contribution from the $\text{EL} > 6.6 \text{ eV}$ is given in the last column.

E_0 (eV)	Energy loss (eV)					Residue
	4.7	5.0	5.5	6.1	6.6	
8	4.3	8.8	7.3	10.6	4.1	0.04
9	4.4	5.4	4.2	8.4	5.0	3.4
10	3.9	6.9	5.1	8.3	7.3	4.5
11	3.6	4.1	3.6	7.7	6.3	3.4
11.5	4.2	5.9	3.7	9.3	8.3	4.7
12	3.8	5.5	3.5	7.7	3.2 *	5.0