

Supplementary Table S2 Correction factors for tunneling effects at different temperatures

T (K) κ	TSa	TSb	TSc	TSd	TSa'
300	2.326	2.254	2.250	2.248	3.615
400	1.746	1.705	1.703	1.702	2.471
500	1.478	1.451	1.450	1.449	1.941
600	1.332	1.313	1.312	1.312	1.654
700	1.244	1.230	1.230	1.229	1.480
800	1.187	1.176	1.176	1.176	1.368
900	1.147	1.139	1.139	1.139	1.291
1000	1.119	1.113	1.112	1.112	1.235
1100	1.099	1.093	1.093	1.093	1.194
1200	1.083	1.078	1.078	1.078	1.163
1300	1.071	1.067	1.067	1.066	1.139
1400	1.061	1.058	1.057	1.057	1.120
1500	1.053	1.050	1.050	1.050	1.105
1600	1.047	1.044	1.044	1.044	1.092
1700	1.041	1.039	1.039	1.039	1.081
1800	1.037	1.035	1.035	1.035	1.073
1900	1.033	1.031	1.031	1.031	1.065
2000	1.030	1.028	1.028	1.028	1.059
	TSb'	TSc'	TSd'	TSa''	TSb''
300	3.654	3.622	3.693	3.057	3.232
400	2.493	2.475	2.515	2.157	2.256
500	1.955	1.944	1.969	1.740	1.804
600	1.663	1.656	1.673	1.514	1.558
700	1.487	1.482	1.495	1.378	1.410
800	1.373	1.369	1.379	1.289	1.314
900	1.295	1.291	1.299	1.229	1.248
1000	1.239	1.236	1.242	1.185	1.201
1100	1.197	1.195	1.200	1.153	1.166
1200	1.166	1.164	1.168	1.129	1.140
1300	1.141	1.140	1.143	1.110	1.119
1400	1.122	1.120	1.124	1.094	1.103
1500	1.106	1.105	1.108	1.082	1.089
1600	1.093	1.092	1.095	1.072	1.078
1700	1.083	1.082	1.084	1.064	1.070
1800	1.074	1.073	1.075	1.057	1.062
1900	1.066	1.065	1.067	1.051	1.056
2000	1.060	1.059	1.061	1.046	1.050
	TSc''	TSd''	TSa'''	TSb'''	TSa'''
300	3.143	3.205	1.914	1.678	1.621
400	2.206	2.240	1.514	1.381	1.349
500	1.772	1.794	1.329	1.244	1.223
600	1.536	1.551	1.228	1.170	1.155
700	1.394	1.405	1.168	1.125	1.114
800	1.301	1.310	1.128	1.095	1.087
900	1.238	1.245	1.102	1.075	1.069

1000	1.193	1.198	1.082	1.061	1.056
1100	1.159	1.164	1.068	1.050	1.046
1200	1.134	1.138	1.057	1.042	1.039
1300	1.114	1.117	1.049	1.036	1.033
1400	1.098	1.101	1.042	1.031	1.029
1500	1.086	1.088	1.037	1.027	1.025
1600	1.075	1.078	1.032	1.024	1.022
1700	1.067	1.069	1.028	1.021	1.019
1800	1.060	1.061	1.025	1.019	1.017
1900	1.053	1.055	1.023	1.017	1.015
2000	1.048	1.050	1.021	1.015	1.014
	TSd'''	TSa'''	TSb'''	TSc'''	TSd'''
300	1.344	1.442	2.081	2.226	2.240
400	1.193	1.249	1.608	1.690	1.697
500	1.124	1.159	1.389	1.441	1.446
600	1.086	1.111	1.270	1.307	1.310
700	1.063	1.081	1.198	1.225	1.228
800	1.048	1.062	1.152	1.172	1.174
900	1.038	1.049	1.120	1.136	1.138
1000	1.031	1.040	1.097	1.110	1.112
1100	1.026	1.033	1.080	1.091	1.092
1200	1.021	1.028	1.068	1.077	1.077
1300	1.018	1.024	1.058	1.065	1.066
1400	1.016	1.020	1.050	1.056	1.057
1500	1.014	1.018	1.043	1.049	1.050
1600	1.012	1.016	1.038	1.043	1.044
1700	1.011	1.014	1.034	1.038	1.039
1800	1.010	1.012	1.030	1.034	1.034
1900	1.009	1.011	1.027	1.031	1.031
2000	1.008	1.010	1.024	1.028	1.028