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Table S1 the slopes and the relative rates from linear fitting of $-\ln(I/I_0)$ vs NO flows for the clusters shown in Fig.S1 and Fig.S3.

Au_n^- n=	**The Slopes of linear fittings**	**Relative rates (Normalized to the slope of Au_{20}^-)**
1	--	<0.01
2	--	<0.01
3	--	<0.01
4	1.473 ± 0.026	0.394 ± 0.007
5	0.321 ± 0.022	0.086 ±0.006
6	3.640 ± 0.192	0.974 ±0.052
7	0.966 ± 0.033	0.258 ± 0.009
8	3.296 ± 0.077	0.882 ± 0.021
9	1.011 ± 0.023	0.270 ± 0.007
10	3.634 ± 0.130	0.972 ± 0.035
11	0.873 ± 0.019	0.234 ± 0.006
12	3.189 ± 0.053	0.853 ± 0.015
13	--	<0.01
14	3.289 ± 0.121	0.880 ± 0.033
15	--	<0.01
16	3.651 ± 0.133	0.977 ± 0.036
17	0.173 ± 0.020	0.046 ± 0.006
18	2.978 ± 0.083	0.797 ± 0.023
19	--	<0.01
20	3.738 ± 0.306	1.000 ± 0.082