TABLE I: The total energies of linear Pt chains.

Notation	L_1	L_2	L_3	L_4	L_5	L_6
Structure	•	2.34	2.35 2.34		2,33 2.30	2,35 2,33 2,33
Total energy (eV)	-0.55	-4.61	-8.18	-11.47	-15.38	-18.40
Notation	I	<u>-</u> 7	L_8		L ₉	L_{∞}
Structure	2.34 2.34 2.35	• • • •	2.34, 2.34, 2.36, 2.37		2.34 2.34 2.35 2.38	2.36
Total energy (eV)	-21	1.82	-25.25		-28.59	-3.07

TABLE II: The total energies of planar Pt clusters.

Notation	P ₃	P ₄₋₁	P ₄₋₂	P ₅₋₁	P ₅₋₂	P ₅₋₃	P ₆₋₁
Structure	^		~	X		\triangle	À
Total energy (eV)	-8.63	-12.63	-12.67	-16.88	-16.93	-17.18	-21.76
Notation	P ₆₋₂	P ₆₋₃	P ₆₋₄	P ₇₋₁	P ₇₋₂	P ₈₋₁	P ₈₋₂
Structure		\blacksquare	\Diamond		À		X
Total energy (eV)	-21.22	-21.76	-22.66	-25.39	-25.53	-30.05	-30.53
Notation	P ₈₋₃	P ₉₋₁	P ₉₋₂	P ₉₋₃	P ₁₉	Ps	P_d
Structure						**	**
Total energy (eV)	-30.61	-35.61	-35.43	-34.98	-80.31	-18.67	-20.47

TABLE III: The total energies of three-dimensional Pt clusters.

Notation	T ₄	T ₅₋₁	T ₅₋₂	T ₆₋₁	T ₆₋₂	T ₇₋₁	T ₇₋₂
Structure		*	.				
Total energy (eV)	-12.91	-17.28	-17.18	-21.70	-21.76	-26.09	-26.30
Notation	T ₇₋₃	T ₇₋₄	T ₇₋₅	T ₈₋₁	T ₈₋₂	T ₈₋₃	T ₉₋₁
Structure							
Total energy (eV)	-26.37	-26.09	-26.16	-30.85	-31.09	-30.93	-35.79
Notation	T ₉₋₂	T ₉₋₃	T ₉₋₄	T ₉₋₅	T ₁₀₋₁	T ₁₀₋₂	T ₁₀₋₃
Structure							
Total energy (eV)	-36.15	-35.70	-34.89	-35.61	-40.57	-40.47	-40.07
Notation	T ₁₀₋₄	T ₁₀₋₅	T ₁₀₋₆	T ₁₁₋₁	T ₁₁₋₂	T ₁₁₋₃	T ₁₁₋₄
Structure							
Total energy (eV)	-41.86	-41.17	-40.37	-45.06	-45.72	-46.38	-45.61
Notation	T ₁₂₋₁	T ₁₂₋₂	T ₁₃₋₁	T ₁₃₋₂	T ₁₃₋₃	T ₁₃₋₄	T ₁₉₋₁
Structure							
Total energy (eV)	-50.36	-50.36	-55.34	-54.95	-53.65	-53.91	-86.58
Notation	T ₁₉₋₂	T	55-1	T ₅₅₋₂	T_{∞}		
Structure					*		
Total energy (eV)	-86.01	-27	4.27	-275.37	-23.99		