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LIST OF ABBREVIATIONS

ADP	=	Adenosine diphosphate
Ala	=	Alanine
AM1	=	Austin Model 1
AO	=	Atomic Orbital
Arg	=	Arginine
Asp	=	Aspartic acid
ATP	=	Adenosine triphosphate
BSSE	=	Basis set superposition error
Co ²⁺	=	Cobalt (II) anion
GDP	=	Guanosine diphosphate
Gly	=	Glycine
GTP	=	Guanosine triphosphate
HF	=	Hartree-Fock
HS	=	Hydrazine sulfate
INT	=	Interaction energy
LCAO	=	Linear Combination of Atomic Orbitals
Lys	=	Lysine
Mg ²⁺	=	Magnesium anion
MNDO	=	Modified Neglect of Diatomic Overlap
MO	=	Molecular orbital
MP2	=	The second-order Møller-Plesset perturbation theory
NDDO	=	Neglect of Diatomic differential Overlap
OAA	=	Oxaloacetate
PEP	=	Phosphoenolpyruvate
PEPCK	=	Phosphoenolpyruvate carboxykinase
Phe	=	Phenylalanine
PM3	=	Parameterized Model 3
SCF	=	Self-consistent field
Ser	=	Serine
TNF-alpha	=	Tumor necrosis factor-alpha