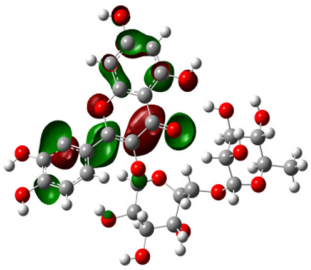
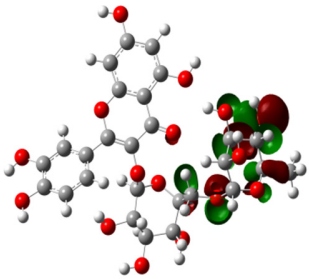
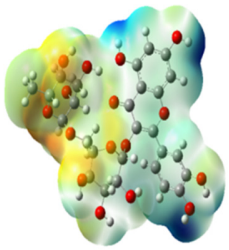
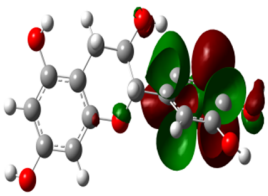
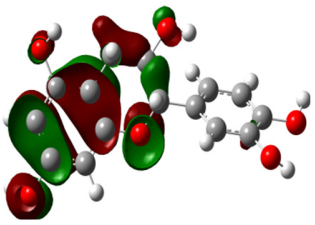
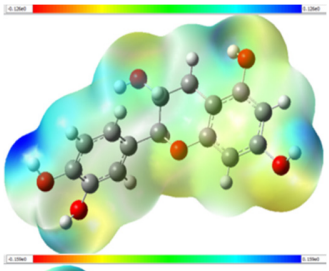
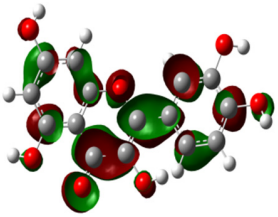
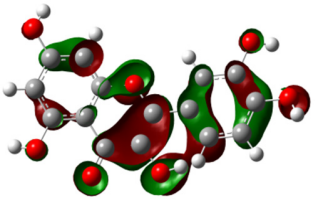
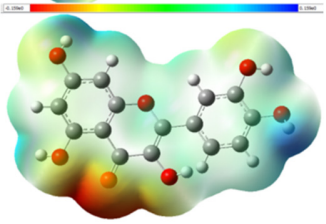
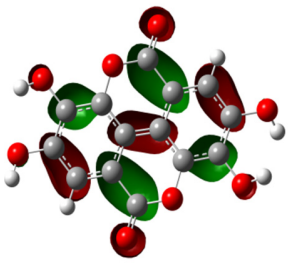
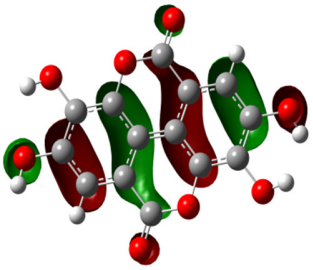
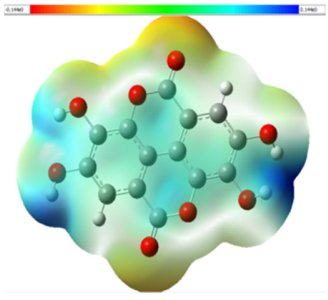
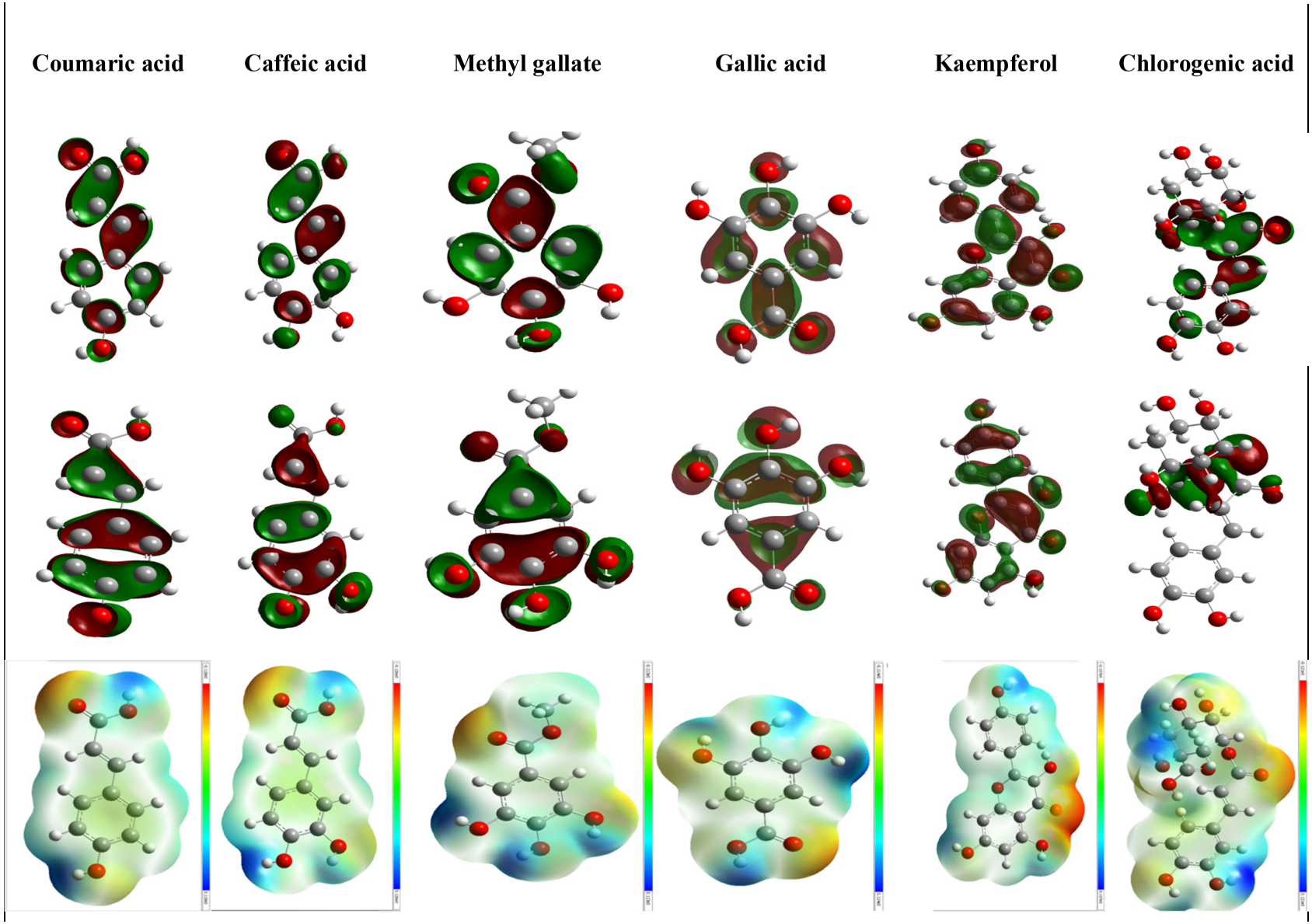
Cpd.	E_{Lumo}	E_{Homo}	ESP surface
Rutin			
Catechin			
Quercetin			
Ellagic acid			


Coumaric acid
Caffeic acid
Methyl gallate
Gallic acid
Kaempferol
Chlorogenic acid

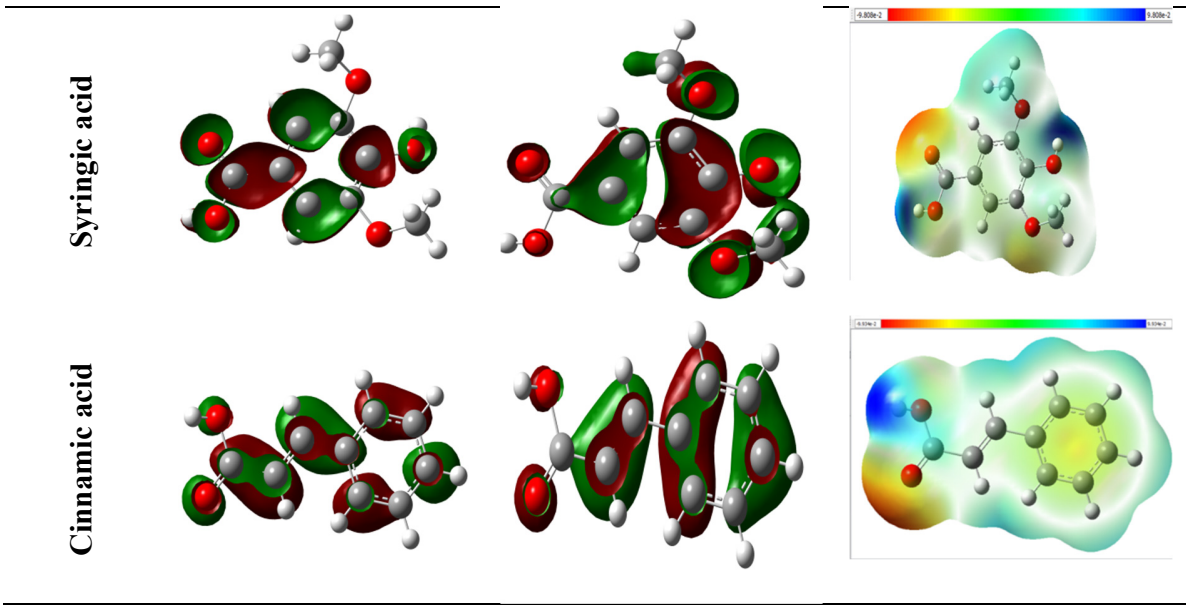
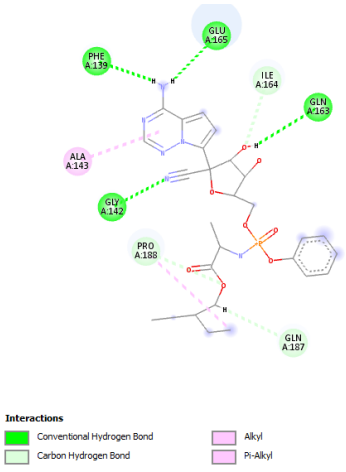
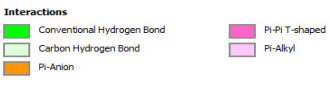


Figure S1. Frontier molecular orbitals (HOMOs, LUMOs) and Molecular electrostatic potential (MEP) surface of all detected phenolic compounds by using DFT/B3LYP/6-311++G(2d,2p) method

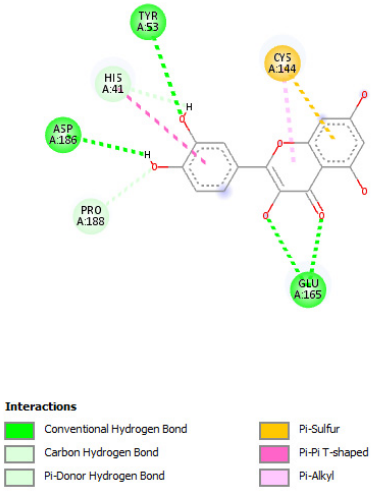


Remdesivir

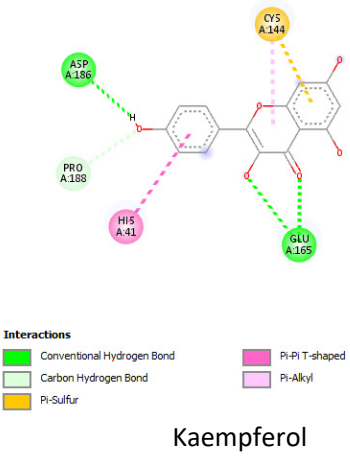


Rutin

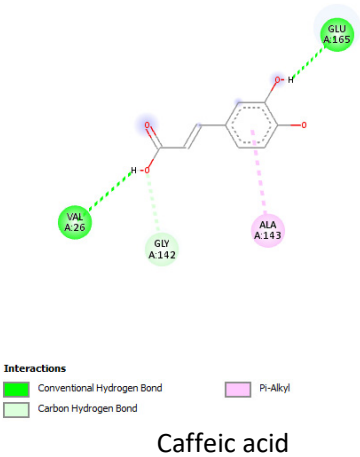
Chlorogenic acid



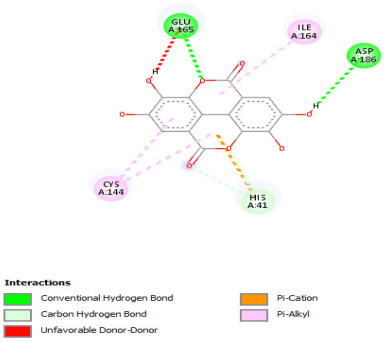
Quercetin



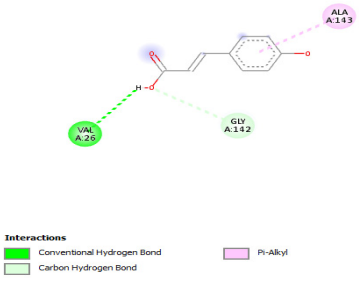
Kaempferol



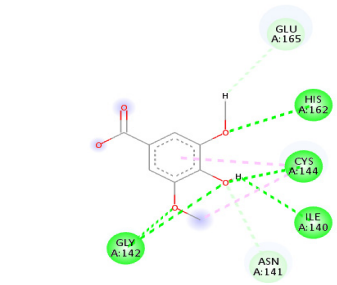
Caffeic acid



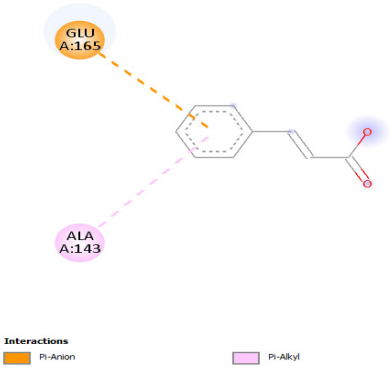
Ellagic acid



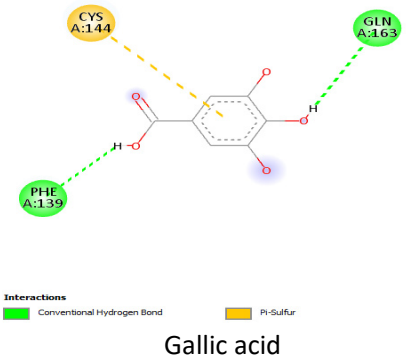
Coumaric acid



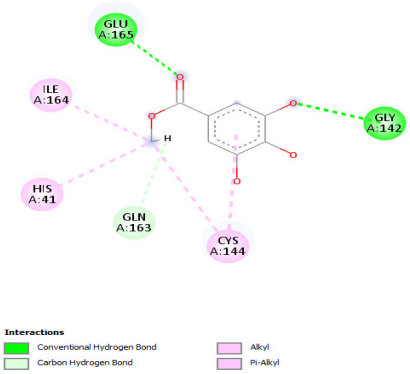
Syringic acid



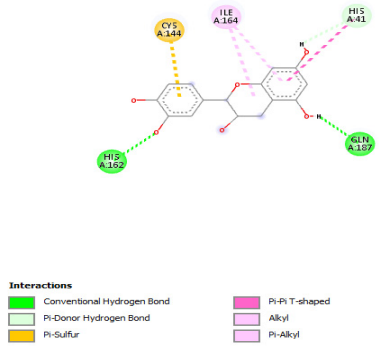
Cinnamic acid



Gallic acid

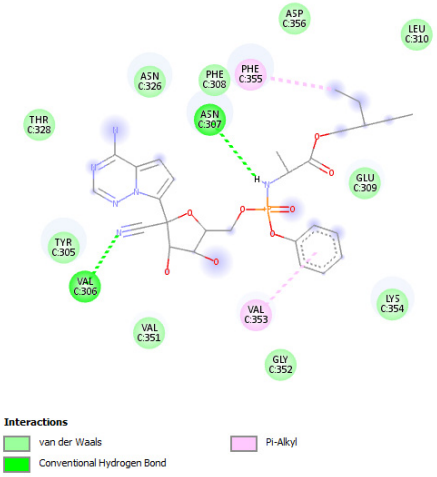


Methyl gallate

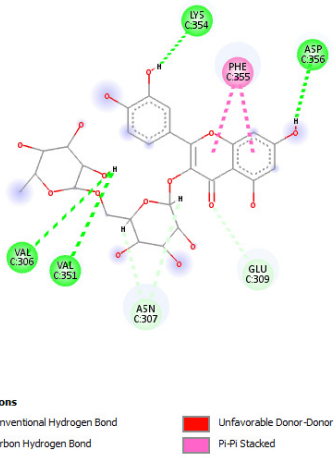


Catechin

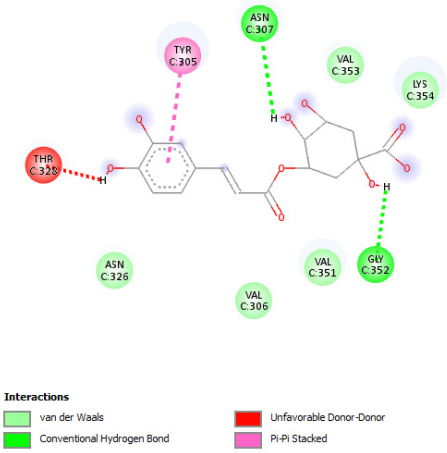
Figure S2. 2D interactions 12 phenolic compounds of GCAE and Remdesivir docked on HCoV-229E M^{pro} (PDB ID: 2ZU2)



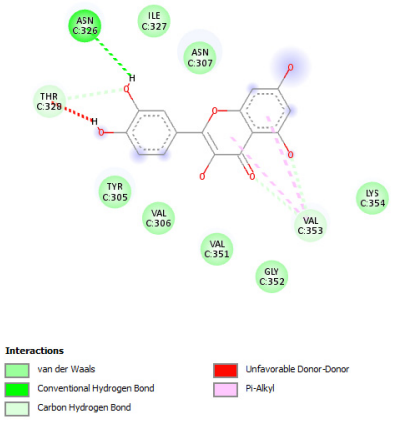
Remdesivir



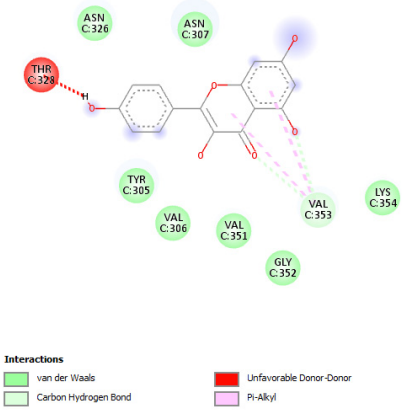
Rutin



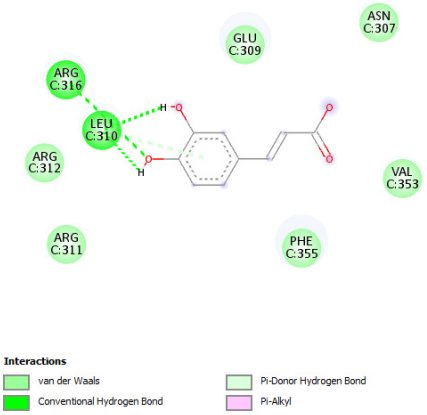
Chlorogenic acid



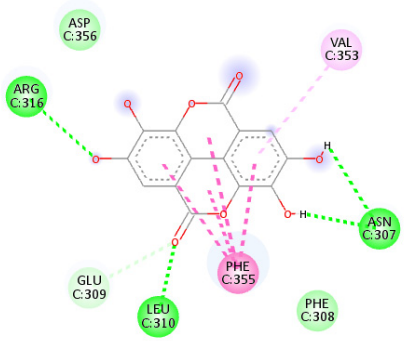
Quercetin



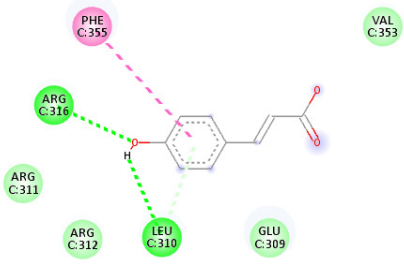
Kaempferol



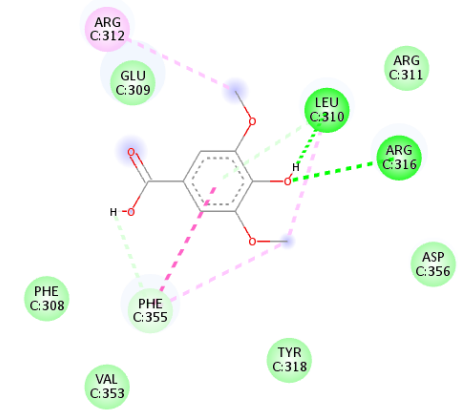
Caffeic acid



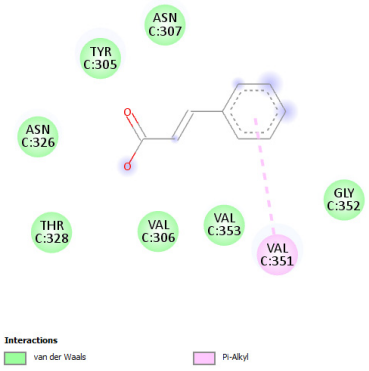
Ellagic acid



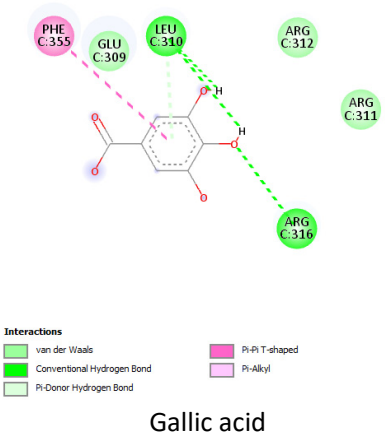
Coumaric acid



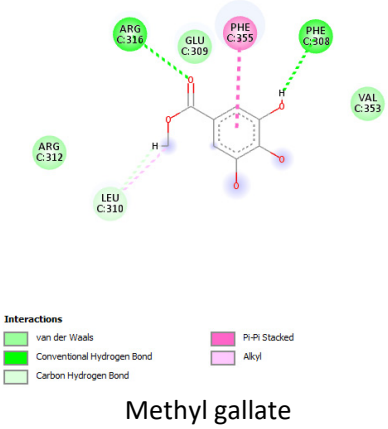
Syringic acid



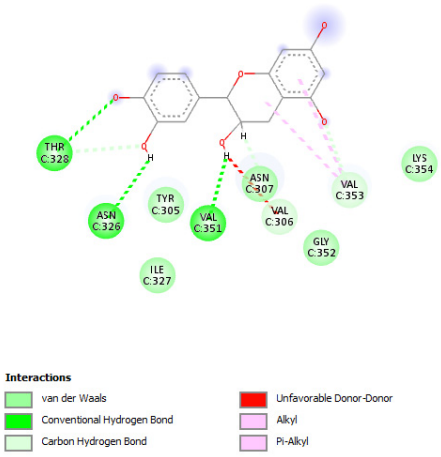
Cinnamic acid



Gallic acid

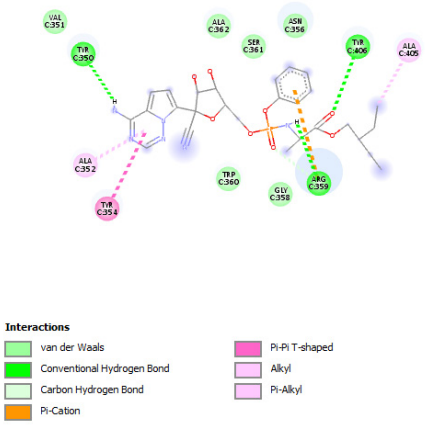


Methyl gallate

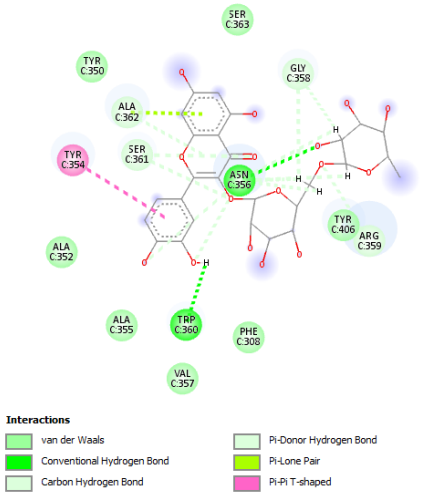


Catechin

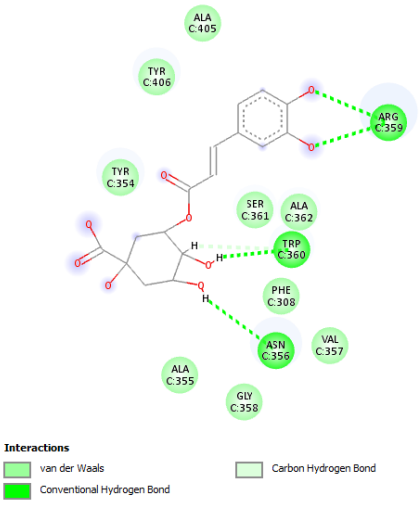
Figure S3. 2D interactions 12 phenolic compounds of GCAE and Remdesivir docked on HCoV-229E RBD Class V (PDB ID: 6U7G)



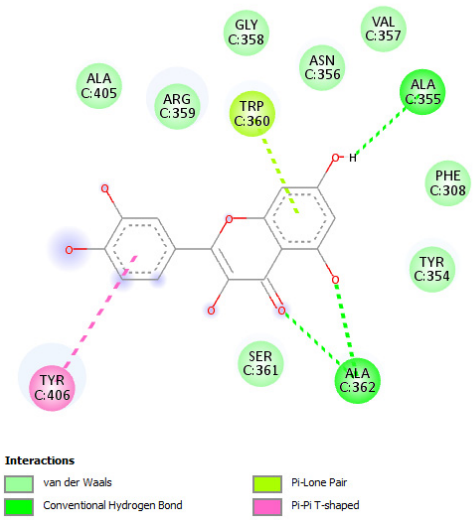
Remdesivir



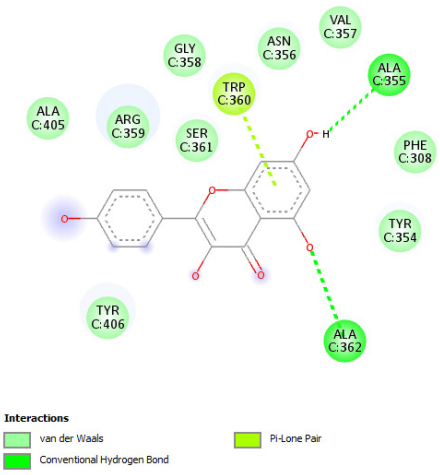
Rutin



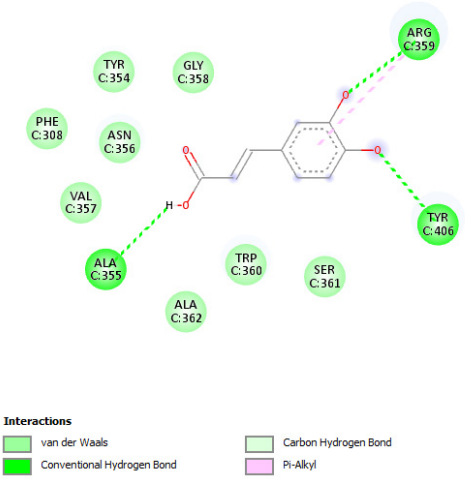
Chlorogenic acid



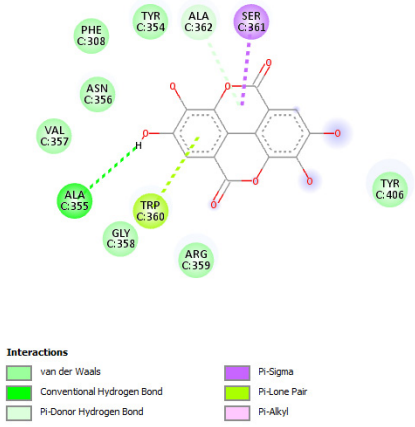
Quercetin



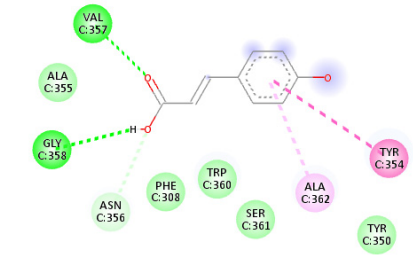
Kaempferol



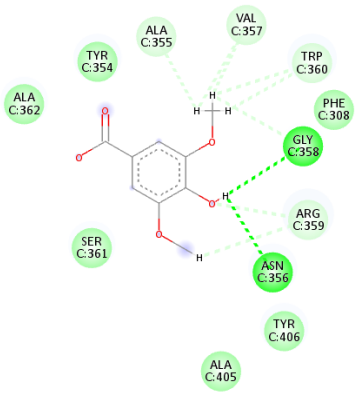
Caffeic acid



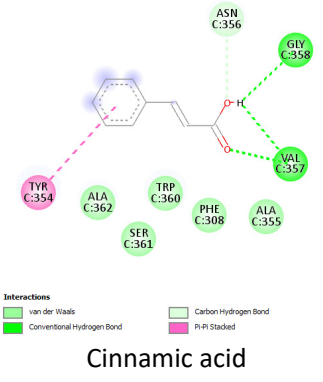
Ellagic acid



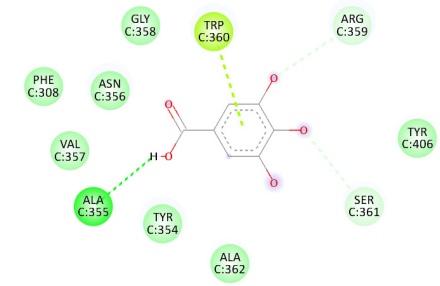
Coumaric acid



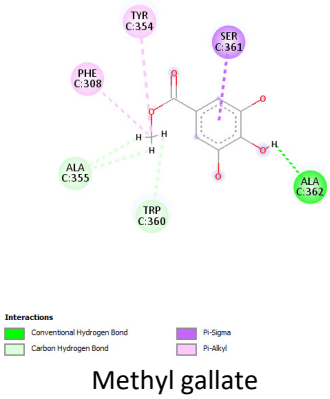
Syringic acid



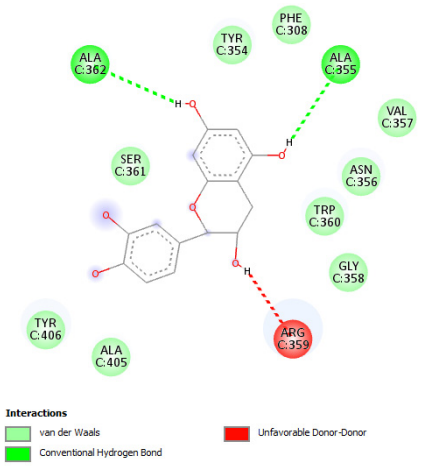
Cinnamic acid



Gallic acid

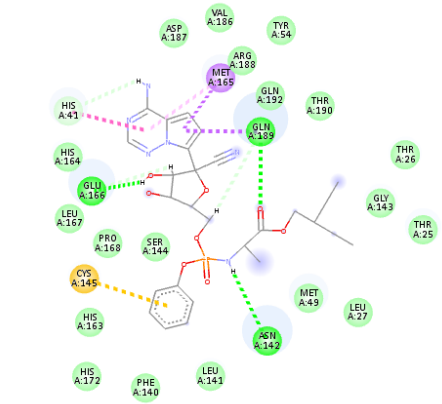


Methyl gallate

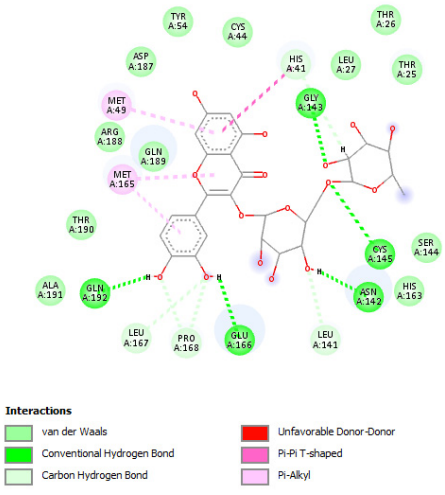


Catechin

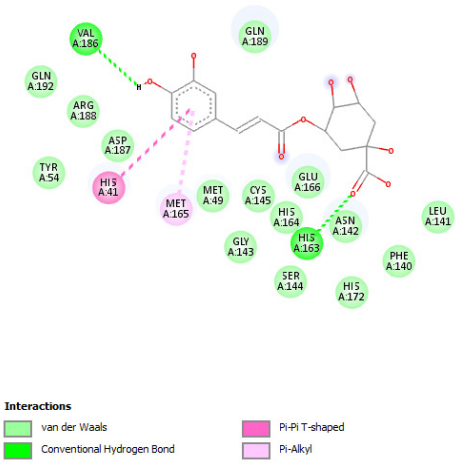
Figure S4. 2D interactions 12 phenolic compounds of GCAE and Remdesivir docked on HCoV-229E spike protein (PDB ID: 7VN9)



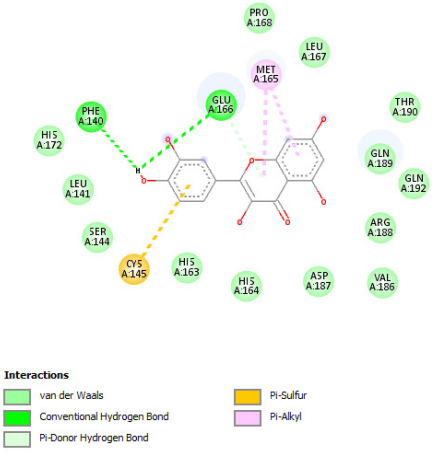
Remdesivir



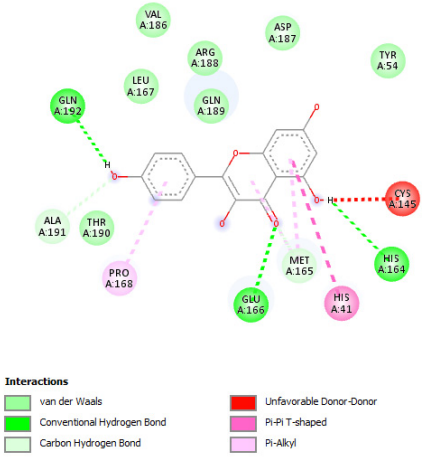
Rutin



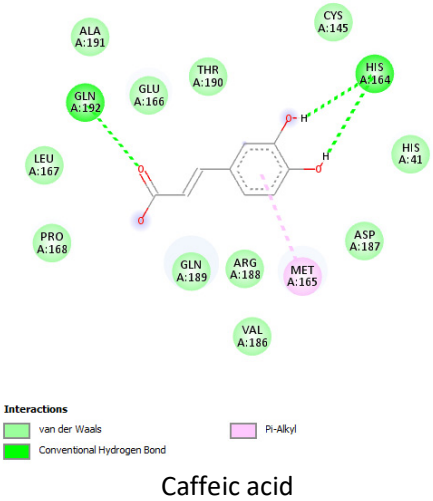
Chlorogenic acid



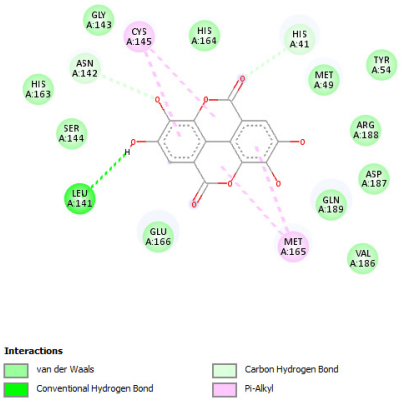
Quercetin



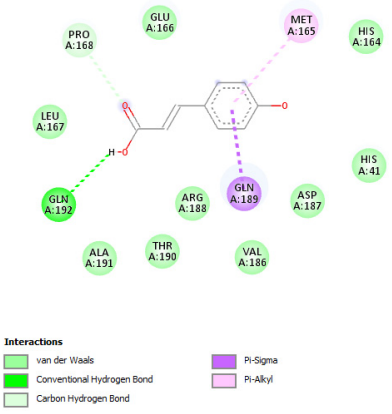
Kaempferol



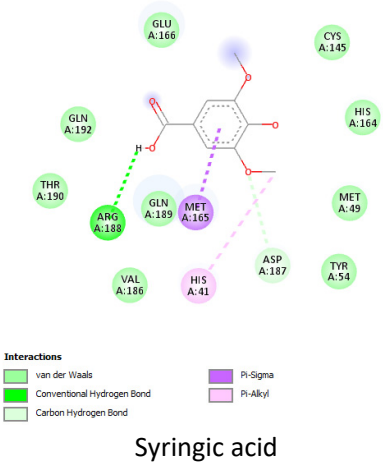
Caffeic acid



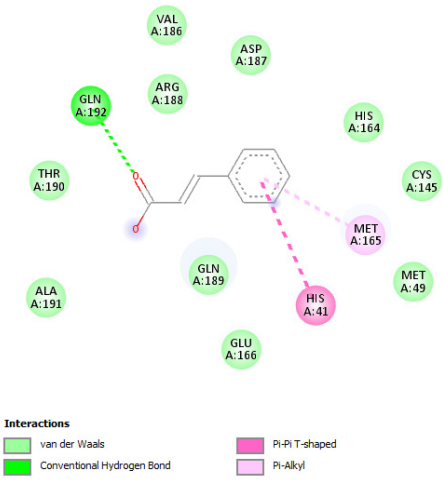
Ellagic acid



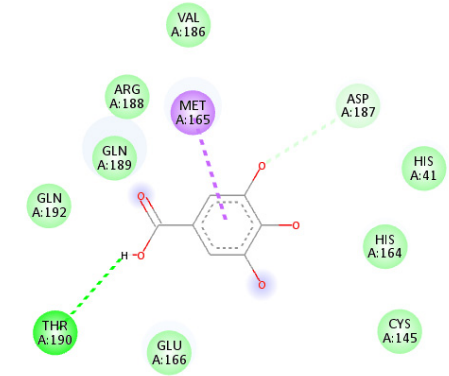
Coumaric acid



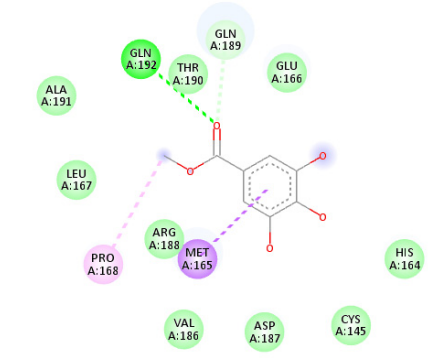
Syringic acid



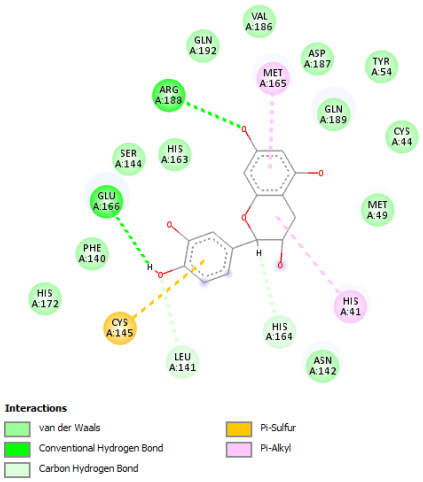
Cinnamic acid



Gallic acid



Methyl gallate



Catechin

Figure S5. 2D interactions 12 phenolic compounds of GCAE and Remdesivir docked on SARS-CoV-2 M^{pro} (PDB ID: 6WTT)