

Table 2: Summary of charge density (CharDen, unit molar) at the catalytic active site, craters and the entire protein. *CD+*: Molar positive CharDen; *CD-*: Molar negative CharDen; *CD_t*: Total (positive + negative) molar CharDen.

		Catalytic Active Site			Craters			Protein
		<i>CD+</i>	<i>CD-</i>	<i>CD_t</i>	<i>CD+</i>	<i>CD-</i>	<i>CD_t</i>	<i>CD_t</i>
EC1	Oxidoreductases (n = 98)	7.5	4.6	12.1	16.8	12.1	28.9	2.8
EC2	Transferases (n = 126)	9.5	7.2	16.6	16.4	12.5	28.8	3.1
EC3	Hydrolases (n = 214)	12.1	10.7	22.8	15.2	11.9	27.1	2.7
EC4	Lyases (n = 72)	11.2	7.3	18.5	16.6	11.6	27.8	2.8
EC5	Isomerases (n = 43)	12.6	9.5	22.1	16.2	13.5	29.7	2.9
EC6	Ligases (n = 20)	9.7	8.3	18.0	16.2	11.9	28.0	3.0
	Total (n = 573)	10.6	8.3	18.9	16.0	12.1	28.2	2.8