

	EXCITING	LITING OCEAN	
Boundary Condition	Periodic	Periodic	Periodic
Method	Bethe-Salpeter Equation	Bethe-Salpeter Equation	Core-hole DF
Treatment of Core	All-electron	Pseudopotential	Pseudopotentia
Basis	Linearized augmented PW + local-orbitals	Planewave	Planewave
Simulation Cell	Unit cell	Unit cell	Supercell

mpid	Band gap (eV)	Oxi. State	Coor. Num.	Num. of Nonequi. Site	Formula	Space		
mp-390	2.06	4+	6	1	TiO ₂	$I4_{1}/a$		
mp-2657	1.77	4+	6	1	TiO ₂	P4 ₂ n		
mp-1840	2.29	4+	6	1	TiO ₂	Pbd		
mp-1203	0.00	2+	4, 5	3	TiO	C2 :		
mp-430	2.23	4+	7	1	TiO ₂	P2 ₁		
mp-458	0.00	3+	6	1	Ti ₂ O ₃	R3		
mp-10734	0.00	2.5 +	6	1	Ti ₄ O ₅	I4/		
mp-1215	0.00	1+	3	1	Ti ₂ O	P3ı		
mp-2664	0.00	2+	6	1	TiO	Fm		
mvc- 11115	2.46	4+	4, 6	2	TiO ₂	R3		







