Electronic Supplementary Material (ESI) for Physical Chemistry Chemical Physics.
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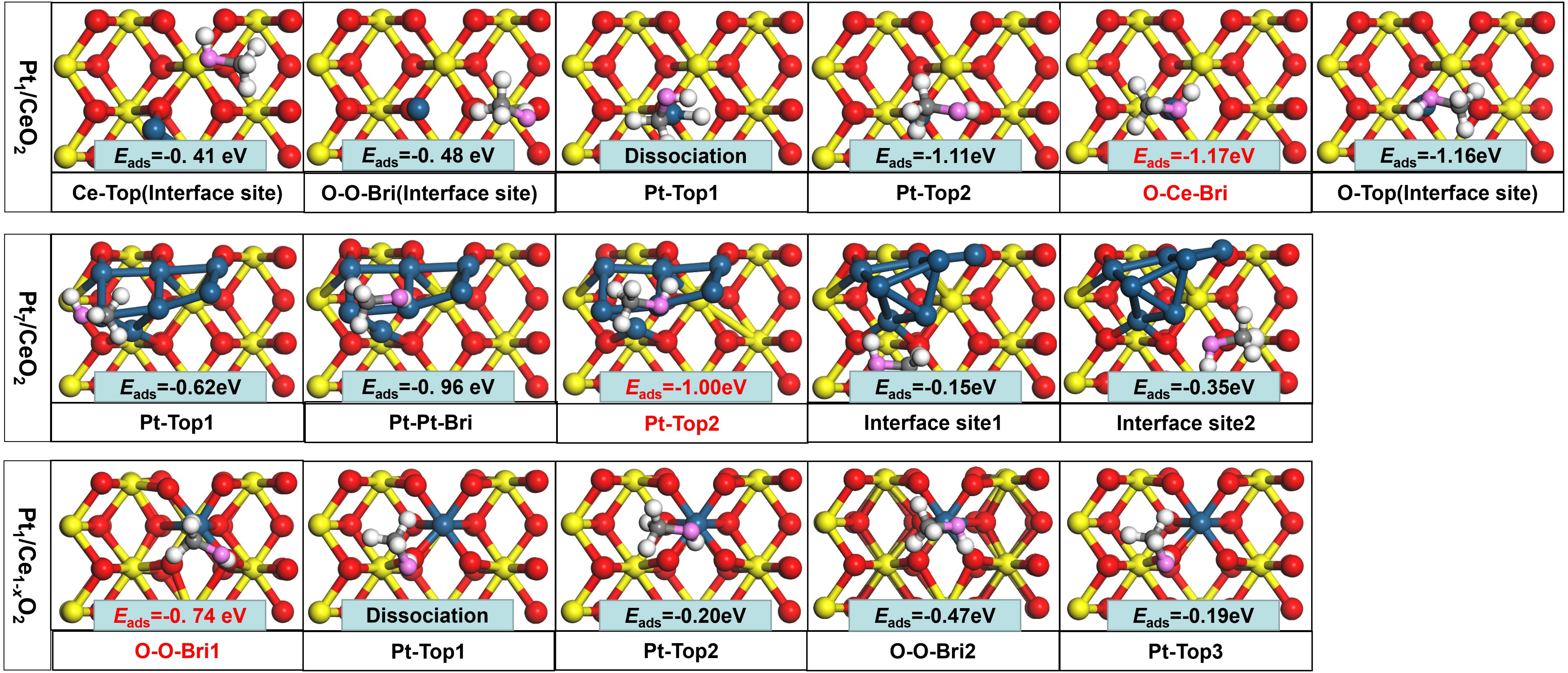
Pt$_1$/CeO$_2$
E_{ads}=-0. 41 eV
Ce-Top(Interface site)
E_{ads}=-0. 48 eV
O-O-Bri(Interface site)
Dissociation
Pt-Top1
E_{ads}=-1.11eV
Pt-Top2
E_{ads}=-1.17eV
O-Ce-Bri
E_{ads}=-1.16eV
O-Top(Interface site)
Pt$_7$/CeO$_2$
E_{ads}=-0.62eV
Pt-Top1
E_{ads}=-0. 96 eV
Pt-Pt-Bri
E_{ads}=-1.00eV
Pt-Top2
E_{ads}=-0.15eV
Interface site1
E_{ads}=-0.35eV
Interface site2
Pt$_1$/Ce$_{1-x}$O$_2$
E_{ads}=-0. 74 eV
O-O-Bri1
Dissociation
Pt-Top1
E_{ads}=-0.20eV
Pt-Top2
E_{ads}=-0.47eV
O-O-Bri2
E_{ads}=-0.19eV
Pt-Top3