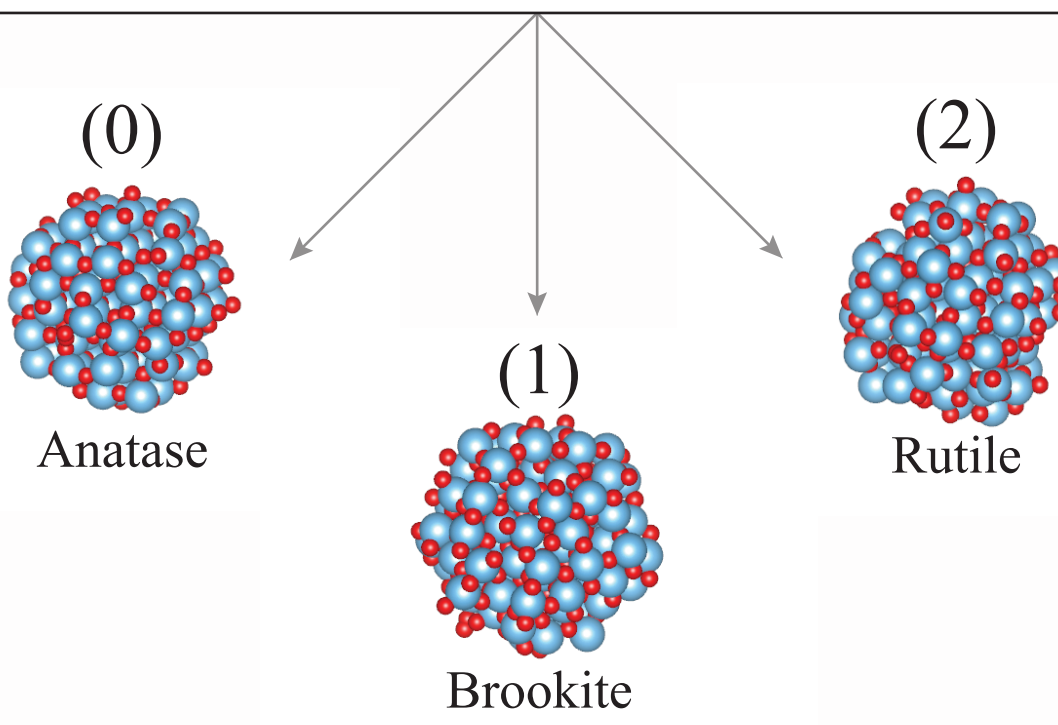
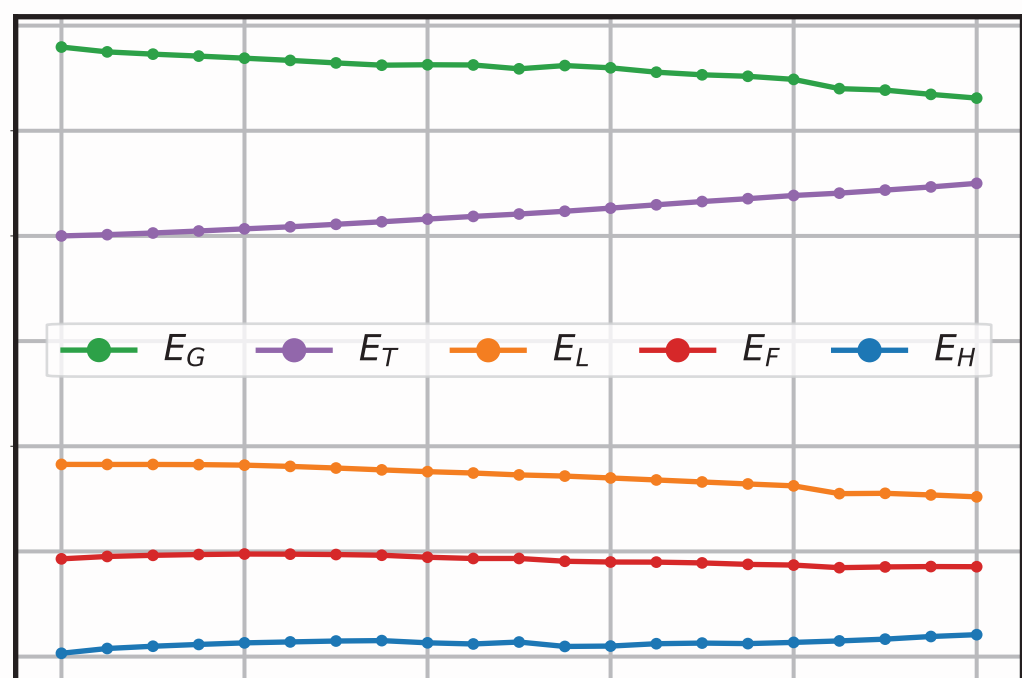
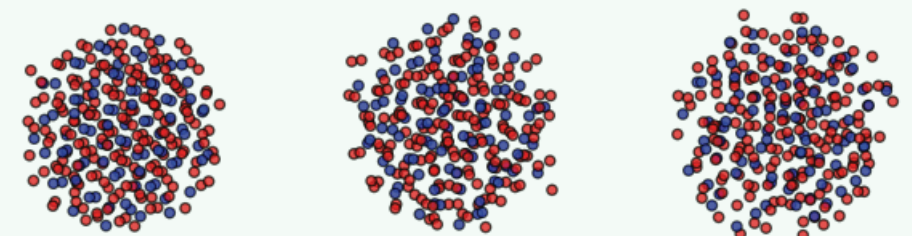
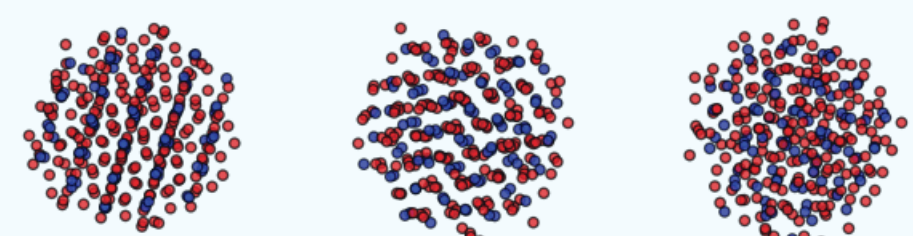
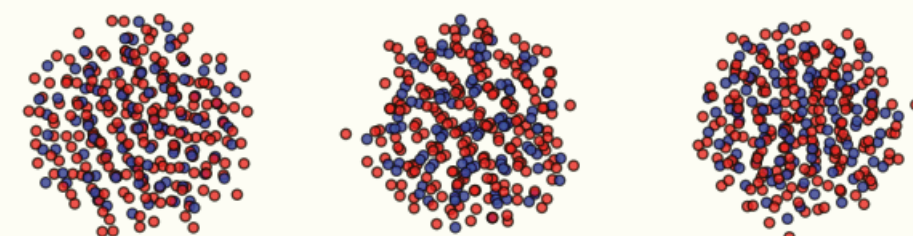


		Phase Classification			Explainability			Property Prediction																																																																																																												
TASKS					<p>This anatase configuration at 300K consists of 223 atoms, including 96 titanium atoms and 127 oxygen atoms, resulting in a Ti:O ratio of approximately 0.76:1. The nanoparticle spans about 16.0 Å in x, 16.5 Å in y, and 16.0 Å in z. This is the original configuration (no rotation).</p> <p>This is a brookite configuration at 500K consists of 100 atoms, including 50 titanium atoms and 50 oxygen atoms, resulting in a Ti:O ratio of approximately 1:1. The nanoparticle spans about 12.0 Å in x, 14.0 Å in y, and 10.0 Å in z. Rotation applied: x=30°, y=45°, z=60°.</p> <p>This rutile configuration at 800K consists of 100 atoms, including 30 titanium atoms and 70 oxygen atoms, resulting in a Ti:O ratio of approximately 0.43:1. The nanoparticle spans about 43.0 Å in x, 45.0 Å in y, and 16.0 Å in z. Rotation applied: x=45°, y=30°, z=15°.</p>																																																																																																															
	Phase Modality	Anatase				Brookite			Rutile																																																																																																											
	Text	This configuration at 0K consists of 268 atoms, including 88 titanium atoms and 180 oxygen atoms, resulting in a Ti:O ratio of approximately 0.49:1. The nanoparticle spans about 19.7 Å in x, 17.9 Å in y, and 18.5 Å in z. This is the original configuration (no rotation).				This configuration at 500K consists of 295 atoms, including 96 titanium atoms and 199 oxygen atoms, resulting in a Ti:O ratio of approximately 0.48:1. The nanoparticle spans about 17.6 Å in x, 17.8 Å in y, and 18.4 Å in z. Rotation applied: x=72.7°, y=-44.7°, z=-137.1°.			This configuration at 1000K consists of 287 atoms, including 89 titanium atoms and 198 oxygen atoms, resulting in a Ti:O ratio of approximately 0.45:1. The nanoparticle spans about 18.4 Å in x, 18.6 Å in y, and 17.8 Å in z. Rotation applied: x=58.9°, y=38.9°, z=-104.8°.																																																																																																											
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XYZ	<div>X</div> <table><tr><td>Ti</td><td>48.19832198</td><td>43.16842672</td><td>38.98264469</td></tr><tr><td>Ti</td><td>49.27877350</td><td>40.25000809</td><td>40.26030152</td></tr><tr><td>Ti</td><td>45.87885744</td><td>45.44320271</td><td>38.01740063</td></tr><tr><td>Ti</td><td>45.23448385</td><td>47.16625656</td><td>40.42685497</td></tr><tr><td colspan="4">...</td></tr><tr><td>O</td><td>37.96192047</td><td>39.71976610</td><td>38.34647828</td></tr><tr><td>O</td><td>39.83005324</td><td>39.69168496</td><td>40.72952811</td></tr><tr><td>O</td><td>37.76759860</td><td>37.82759287</td><td>35.82859873</td></tr><tr><td>O</td><td>39.62493126</td><td>38.00156066</td><td>33.30703226</td></tr></table>				Ti	48.19832198	43.16842672	38.98264469	Ti	49.27877350	40.25000809	40.26030152	Ti	45.87885744	45.44320271	38.01740063	Ti	45.23448385	47.16625656	40.42685497	...				O	37.96192047	39.71976610	38.34647828	O	39.83005324	39.69168496	40.72952811	O	37.76759860	37.82759287	35.82859873	O	39.62493126	38.00156066	33.30703226	<div>Y</div> <table><tr><td>Ti</td><td>-42.64310588</td><td>-74.34912331</td><td>-49.12931380</td></tr><tr><td>Ti</td><td>-34.20277088</td><td>-70.17183774</td><td>-54.60438490</td></tr><tr><td>Ti</td><td>-44.37017132</td><td>-69.68829779</td><td>-47.34065195</td></tr><tr><td>Ti</td><td>-30.63534111</td><td>-67.62447133</td><td>-42.11489172</td></tr><tr><td colspan="3">...</td></tr><tr><td>O</td><td>-28.70818063</td><td>-66.00876419</td><td>-45.83320709</td></tr><tr><td>O</td><td>-30.46921988</td><td>-63.45782988</td><td>-46.78879161</td></tr><tr><td>O</td><td>-27.87845838</td><td>-68.50097564</td><td>-47.56092028</td></tr><tr><td>O</td><td>-30.94393141</td><td>-65.98235914</td><td>-51.06262144</td></tr></table>			Ti	-42.64310588	-74.34912331	-49.12931380	Ti	-34.20277088	-70.17183774	-54.60438490	Ti	-44.37017132	-69.68829779	-47.34065195	Ti	-30.63534111	-67.62447133	-42.11489172	...			O	-28.70818063	-66.00876419	-45.83320709	O	-30.46921988	-63.45782988	-46.78879161	O	-27.87845838	-68.50097564	-47.56092028	O	-30.94393141	-65.98235914	-51.06262144	<div>Z</div> <table><tr><td>Ti</td><td>-11.92292751</td><td>-33.72547796</td><td>41.71110621</td></tr><tr><td>Ti</td><td>-6.133062460</td><td>-36.50977673</td><td>40.62169986</td></tr><tr><td>Ti</td><td>-13.20554663</td><td>-35.47418294</td><td>39.53811896</td></tr><tr><td>Ti</td><td>-14.84633316</td><td>-33.34047768</td><td>34.49905360</td></tr><tr><td colspan="3">...</td></tr><tr><td>O</td><td>-0.054868980</td><td>-33.93664624</td><td>33.91028883</td></tr><tr><td>O</td><td>-15.16869459</td><td>-25.56954253</td><td>38.06331951</td></tr><tr><td>O</td><td>-8.259863160</td><td>-38.02779467</td><td>37.53792462</td></tr><tr><td>O</td><td>-12.95029921</td><td>-37.28066736</td><td>39.79491854</td></tr></table>			Ti	-11.92292751	-33.72547796	41.71110621	Ti	-6.133062460	-36.50977673	40.62169986	Ti	-13.20554663	-35.47418294	39.53811896	Ti	-14.84633316	-33.34047768	34.49905360	...			O	-0.054868980	-33.93664624	33.91028883	O	-15.16869459	-25.56954253	38.06331951	O	-8.259863160	-38.02779467	37.53792462	O	-12.95029921	-37.28066736	39.79491854
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