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An atomic displacive model for $\{1012\}$ $\langle \overline{10}11 \rangle$ twinning in hexagonal close packed metals with the emphasis on the role of partial stacking faults in formation of $\{10\overline{12}\}$ twins

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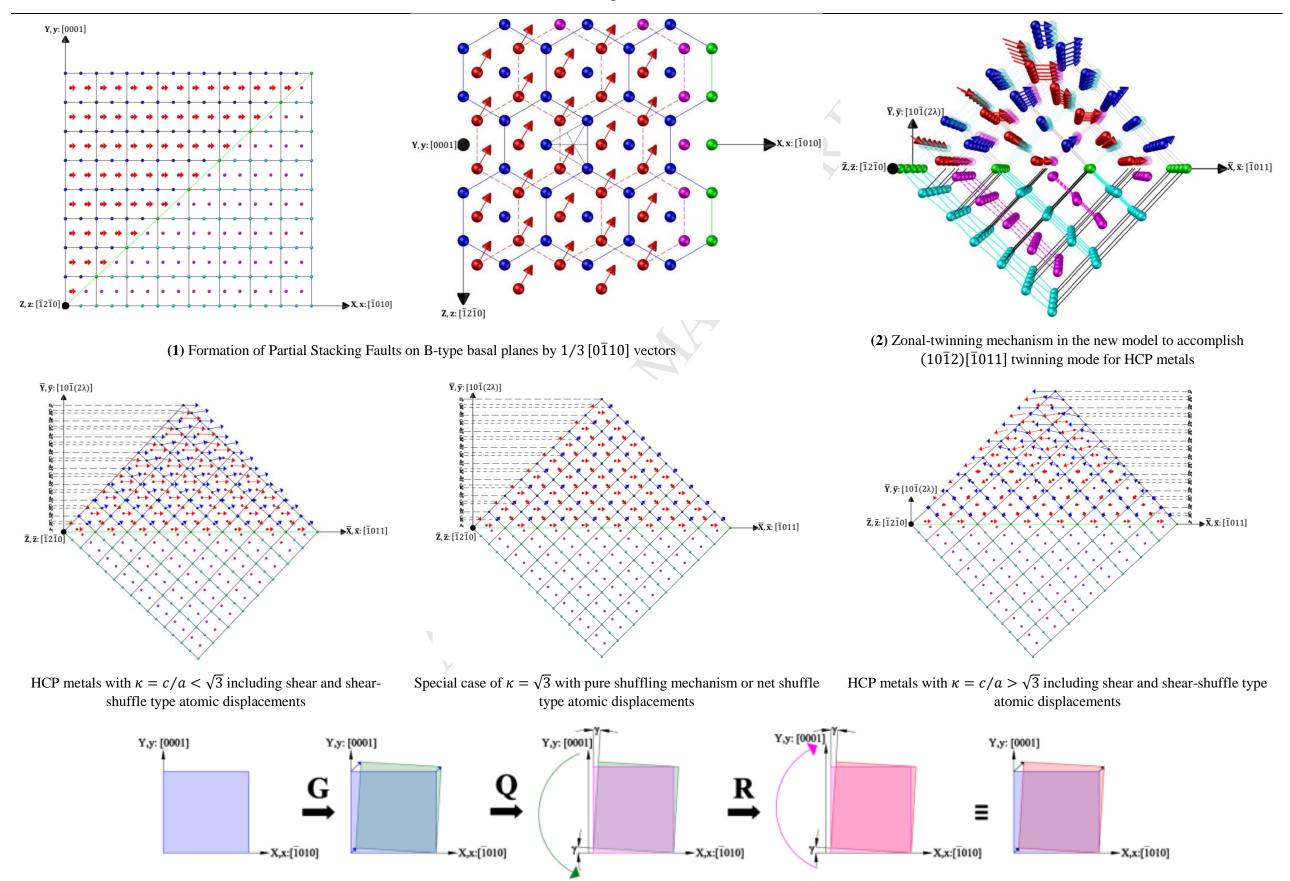
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Graphical Abstract



Macroscopic effect of the new twinning mechanism

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