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Tantalum Surface Oxidation: Bond Relaxation, Energy Entrapment, and Electron Polarization

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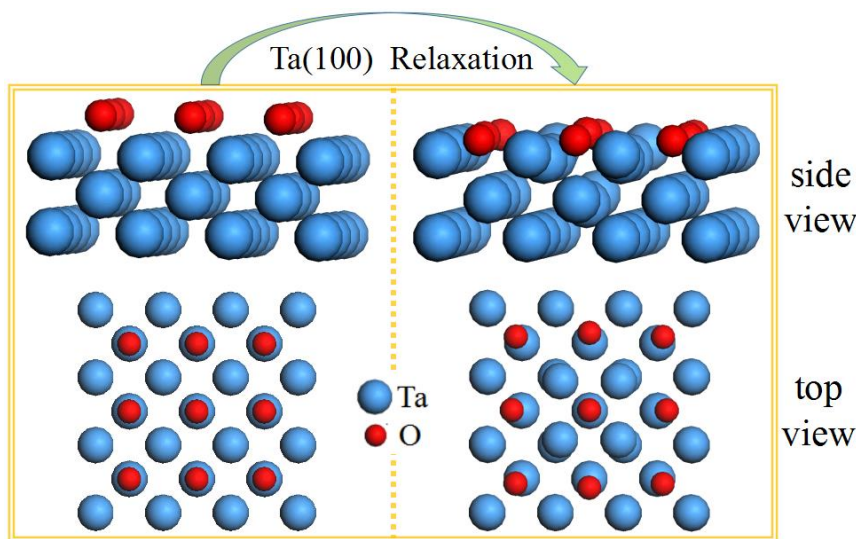
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graphical abstract:

The bond, electron and energy relaxation result in core level energy shift, local densification, quantum entrapment and electron polarization of bonding electrons.



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