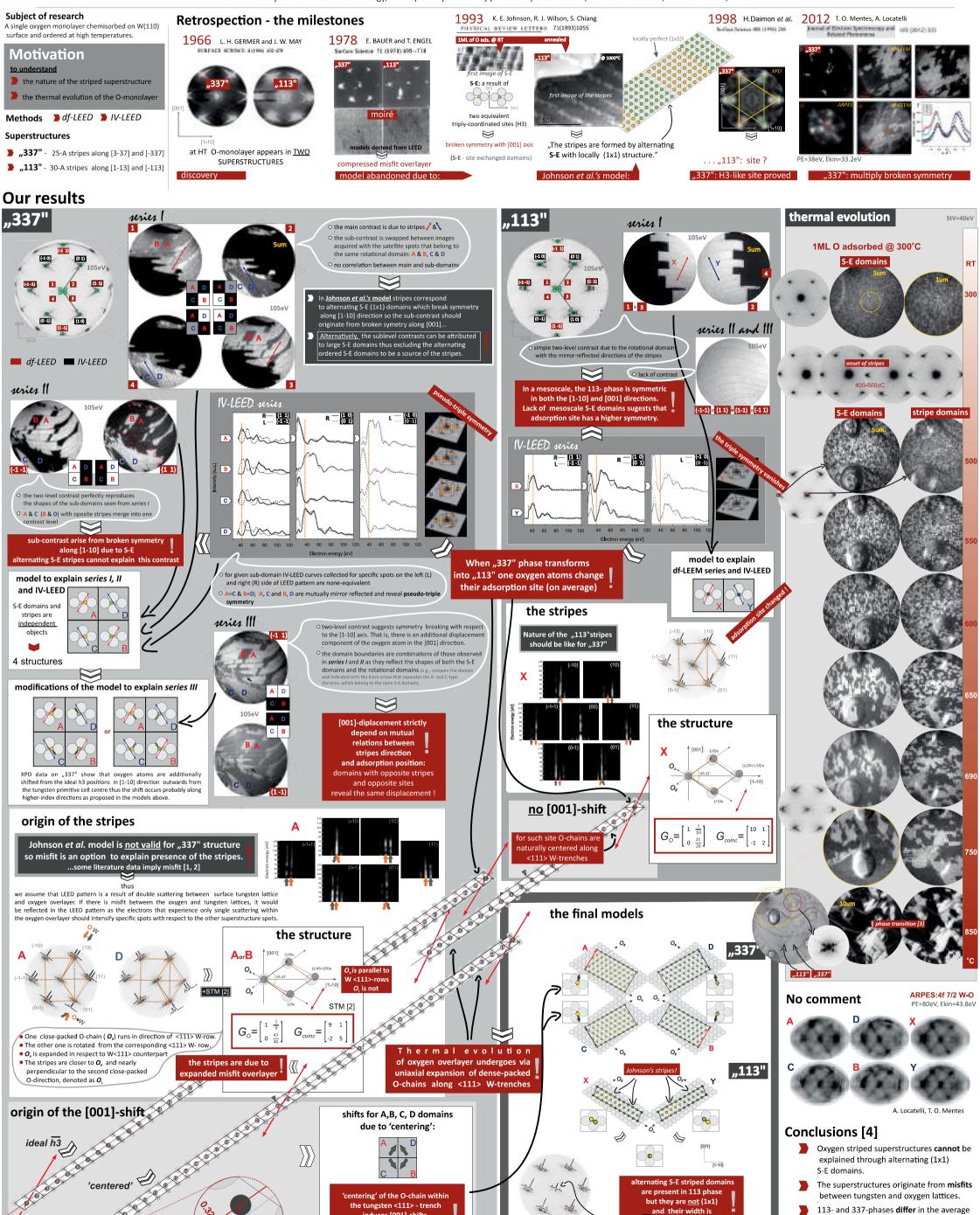
## High-temperature oxygen monolayer structures on W(110) revisited

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induces [001]-shifts

(and [1-10]-ones as well) of average adsorption site

seen in series III

dant with contrast patte

f [1-10]-shift = **0.1Å** [1] [001]-shift = **0.46Å** 

and their width is

half of the misfit stripe:

[2] K. Radican, S.I. Bozhko, S.R. Vadapoo, S. Ulucan, H.C. Wu, A. McCoy, I.V. Shvets, Surf. Sci. 604 (2010) 1548

[3] T. Giela, D. Wilgocka-Ślęzak, M. Ślęzak, N. Spiridis, J. Korecki, Appl. Surf. Sci. 425 (2017) 314
[4] D. Wilgocka-Ślęzak, T. Giela, K. Freindl, N. Spiridis, J. Korecki, Appl. Surf. Sci. 528 (2020) 146712

1] H. Takagi, H. Daimon, F.J. Palomares, C.S. Fadley, **Surf. Sci**. 470 (2001) 189

adsorption sites of oxygen atoms.

occurs via uniaxial reorganization

<111> W-trenches.

of close-packed chains centred along

Thermal evolution of oxygen monolayer