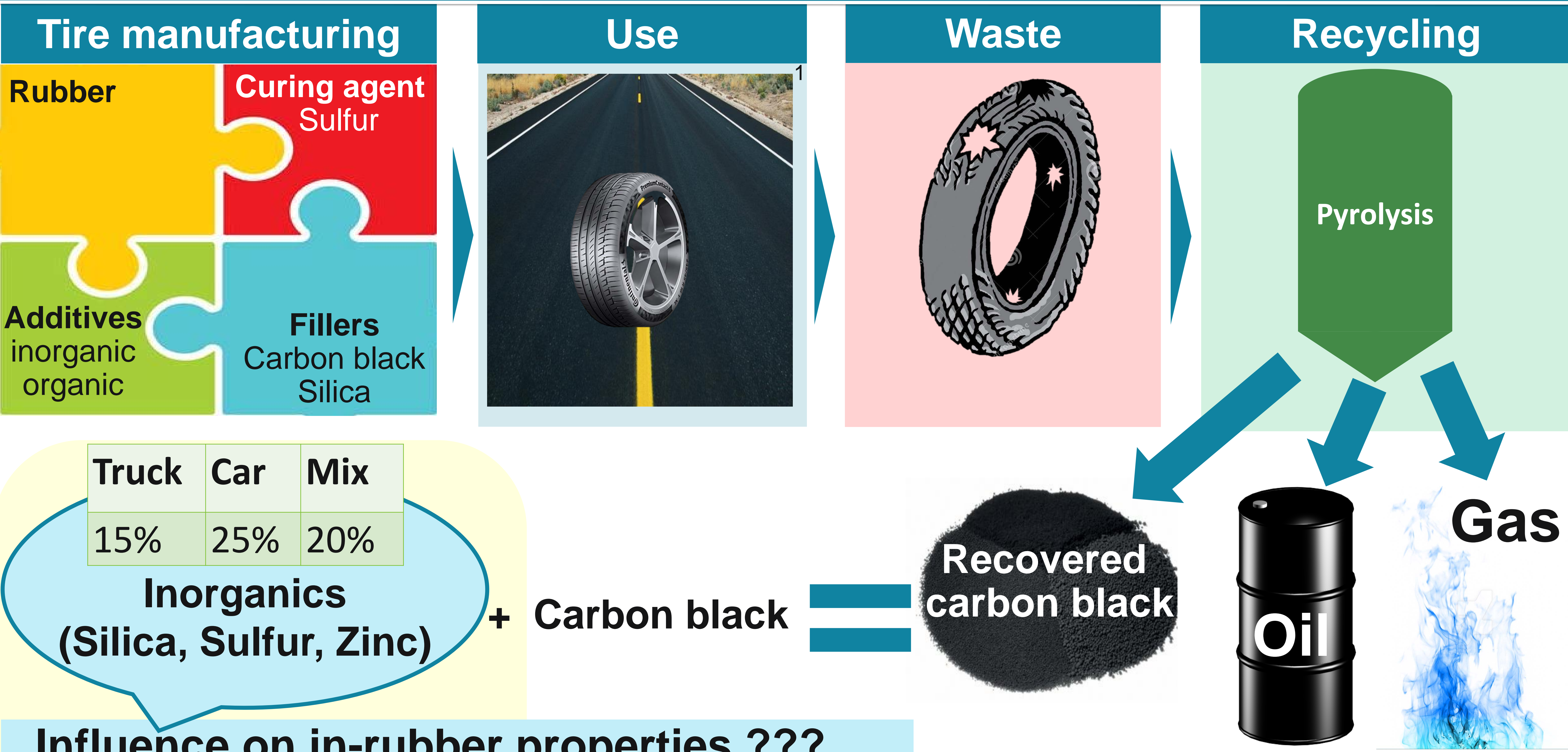


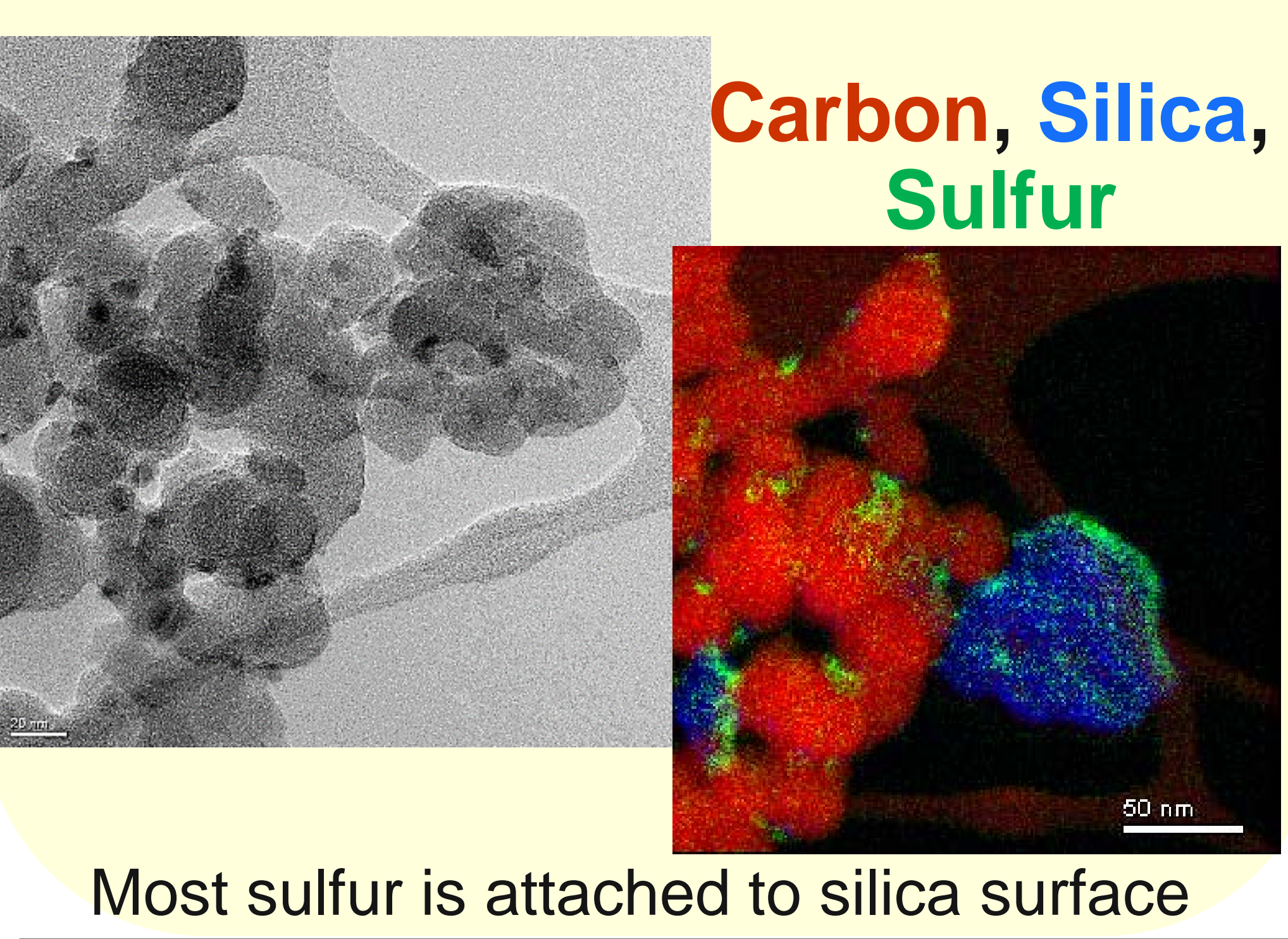
Impact of recovered carbon black inorganic impurities on crosslinking and in-rubber performance

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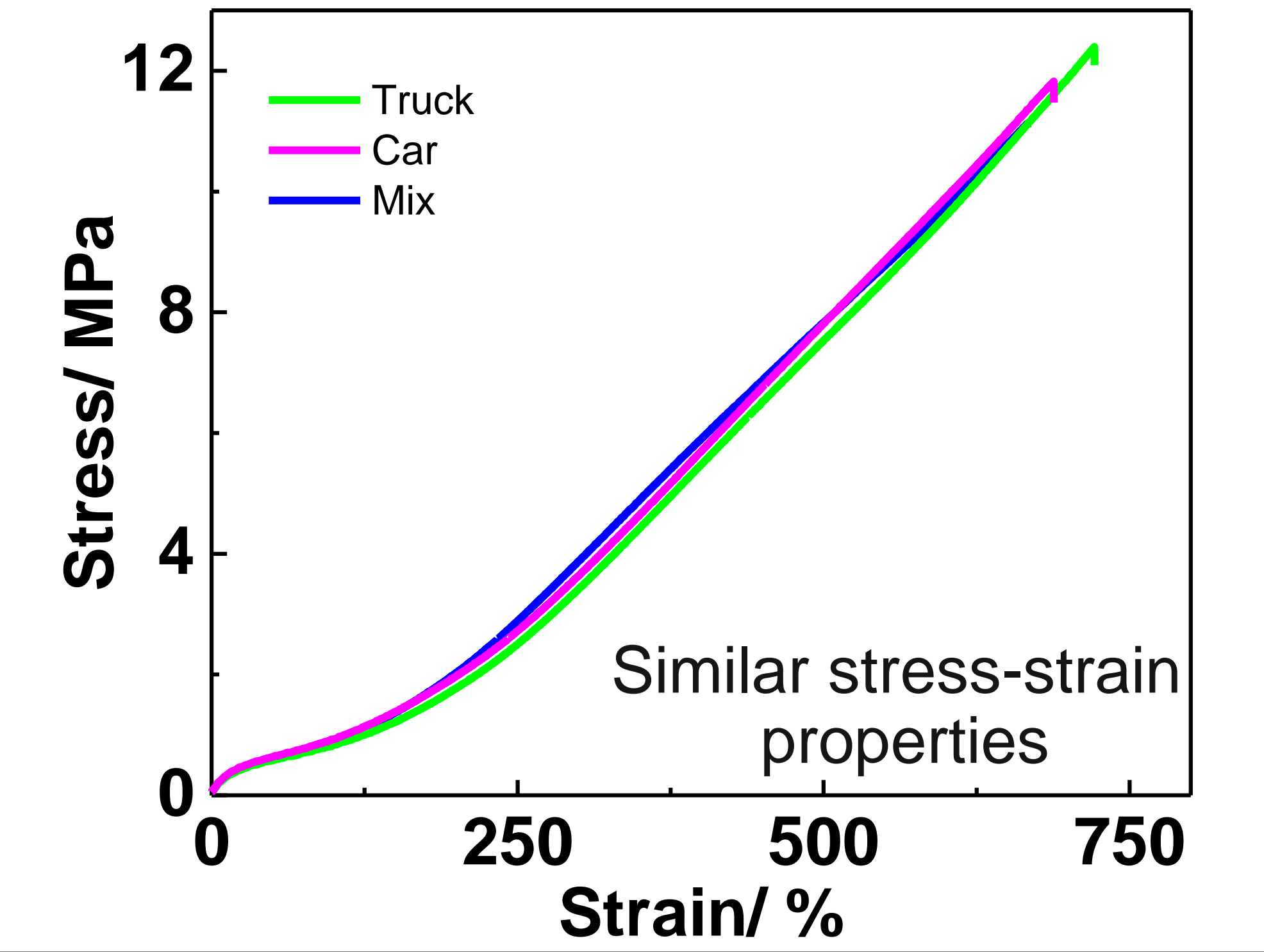


Influence on in-rubber properties ???

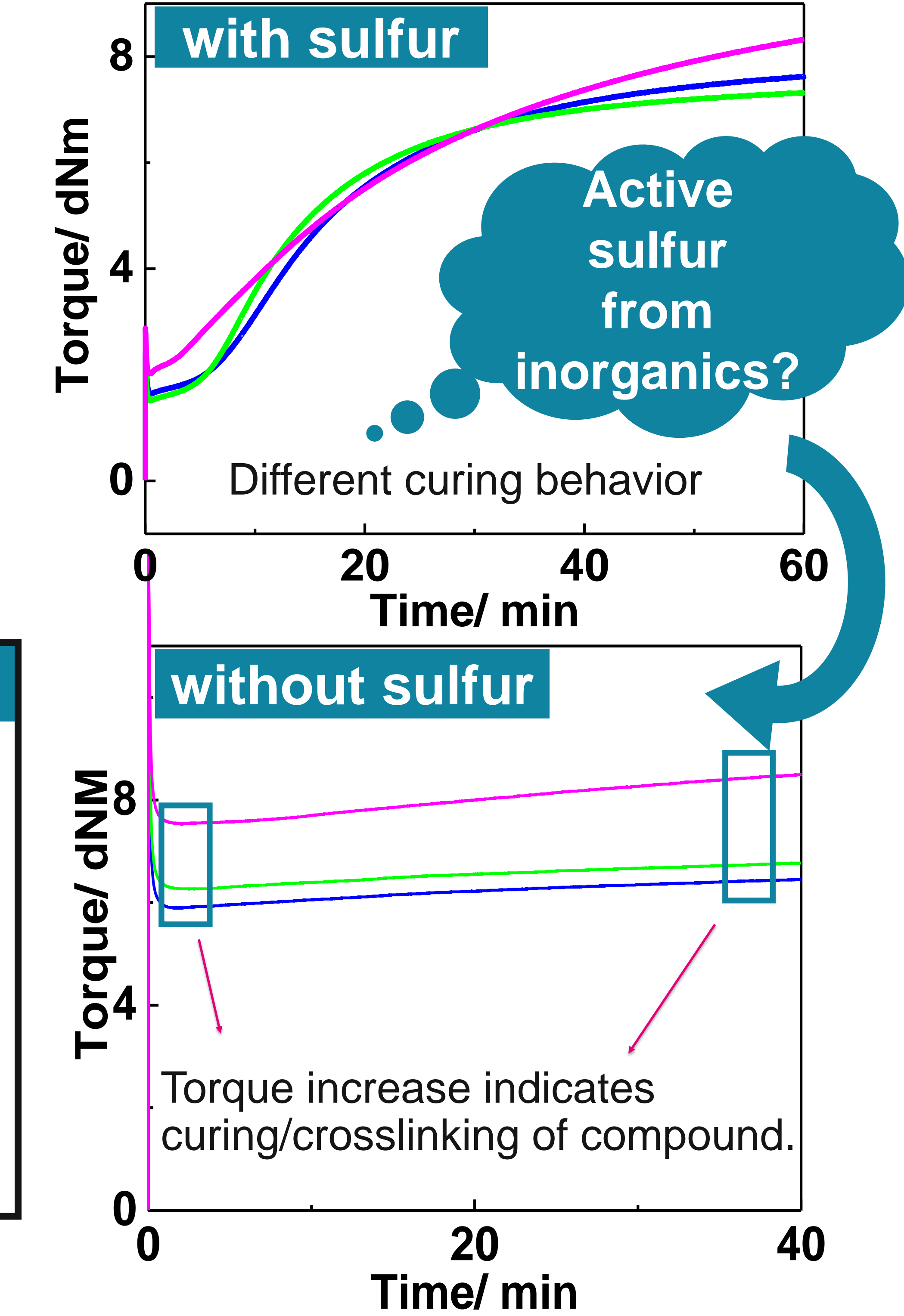
Elemental mapping



Stress- strain behavior



Curing behavior



Conclusion

Elemental mapping indicated sulfur present on silica surface

For the first time, the active sulfur presence in recovered carbon black was shown by the torque increase indicating curing of compounds without curing agent (sulfur)

Different cure behavior by varying ash content is elucidated as synergistic effect of silica and active sulfur attached to its surface

¹<http://www.parkerliveonline.com/2019/08/08/road-works/>