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Water-A New Player of the Solid Surface YI GAO, YADONG LI, BEIEN ZHU, Shanghai Institute of Applied Physics (SINAP) — It is well-known that water configuration and behaviors are highly affected by the solid surface. On the other hand, water is generally considered to have negligible effects on the solid surface. But it might not be the case. Here, we theoretically present two examples to show water could significantly affect the surface structure and properties. The water molecule adsorption could induce the migration of the subsurface vacancies and the change of the surface elements population. These observations might give us a new perspective to understand the properties of liquid/solid interfaces.

Yi Gao
Shanghai Institute of Applied Physics (SINAP)

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