

# RSC Applied Interfaces

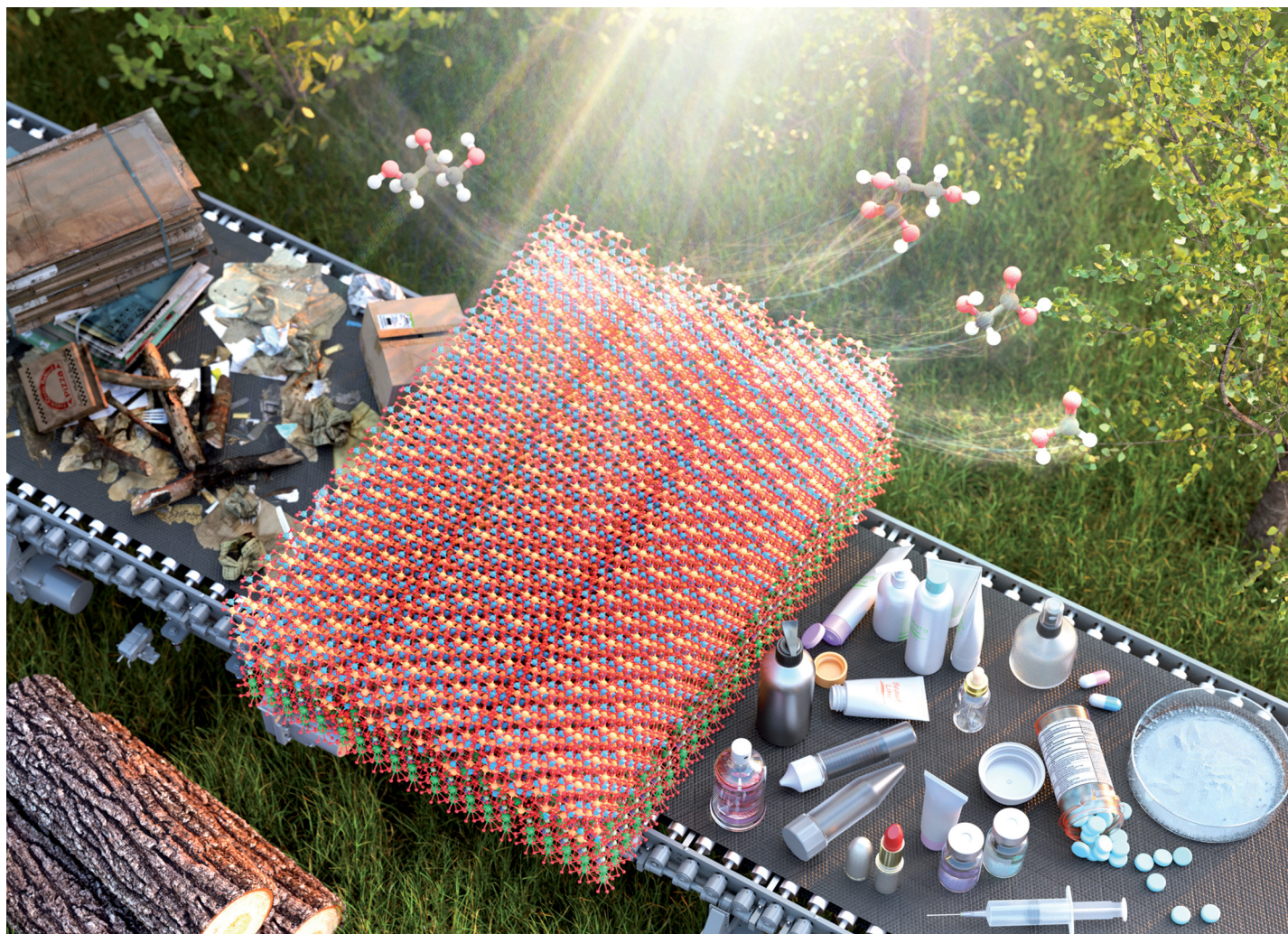
GOLD  
OPEN  
ACCESS

Interfacial and surface research  
with an applied focus

Interdisciplinary and open access

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Fundamental questions  
Elemental answers



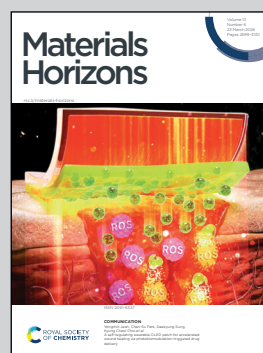
**Highlighting research by Professor Sanghan Lee and colleagues at Gwangju Institute of Science and Technology, Republic of Korea**

Orientation-engineered epitaxial  $\text{BiVO}_4$  thin films for efficient photoelectrochemical glycerol valorization

We identify crystallographic orientation induced anisotropy in photoelectrochemical glycerol valorization. Comparing single crystal  $\text{BiVO}_4$  films with (001) and (0k0) orientations reveals that facet exposure and direction dependent charge transport govern performance. The (0k0) oriented film consistently outperforms (001), highlighting orientation engineering as an effective parameter for optimizing glycerol conversion.

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**As featured in:**



See Sanghan Lee *et al.*, *Mater. Horiz.*, 2026, **13**, 2809.