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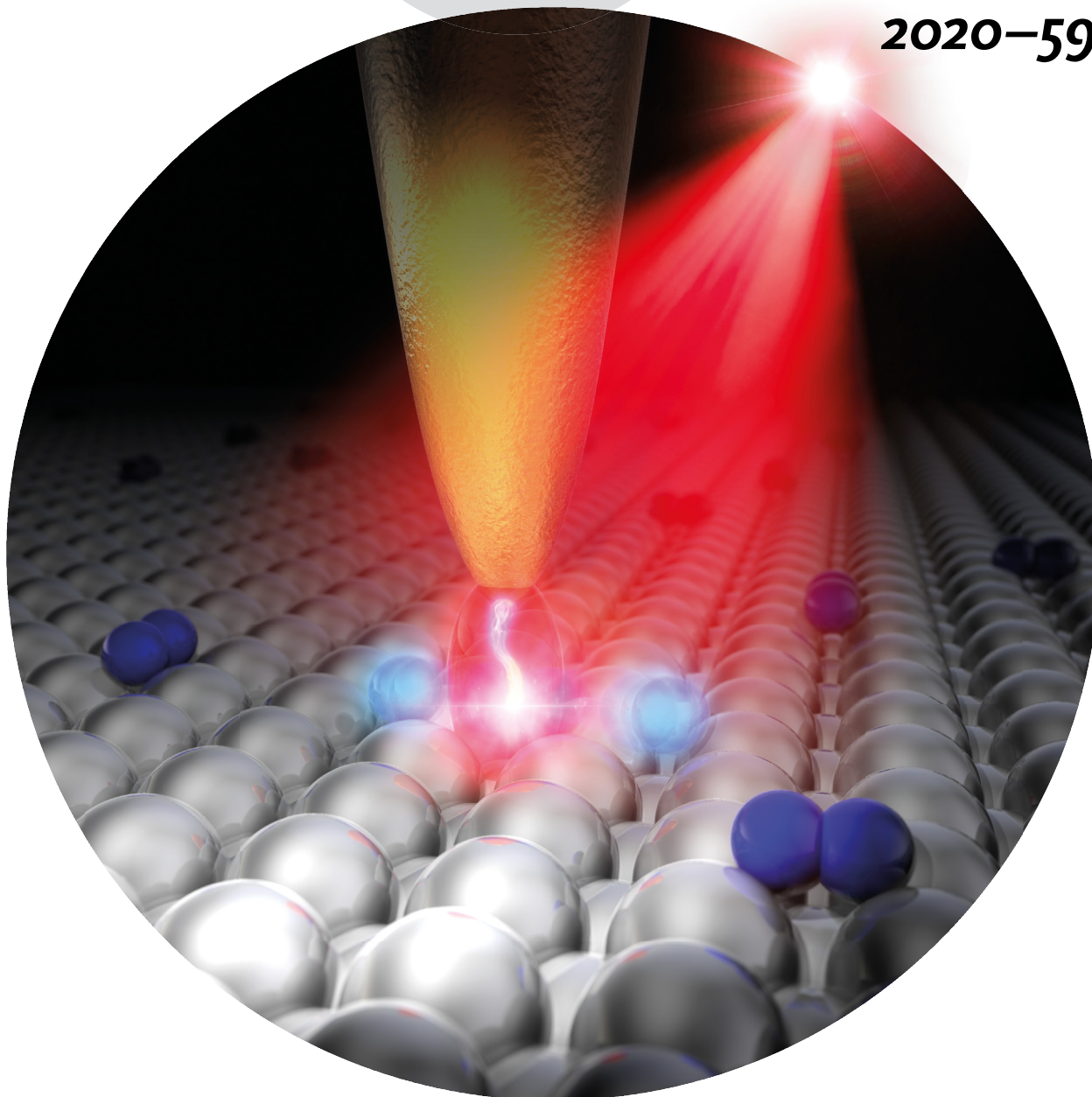
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The plasmon-induced dissociation ...

... of a single O₂ molecule strongly chemisorbed on a silver surface was investigated by using a scanning tunneling microscope combined with an optical set-up for light irradiation, as reported by Y. Kim et al. in their Research Article on page 7960. Analyses of the single-molecule reaction and the electronic structure responsible for the reaction revealed that the hot carriers generated through the decay of the plasmon are transferred to the antibonding (π^*) orbitals of O₂, which are strongly hybridized with the metal states.

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