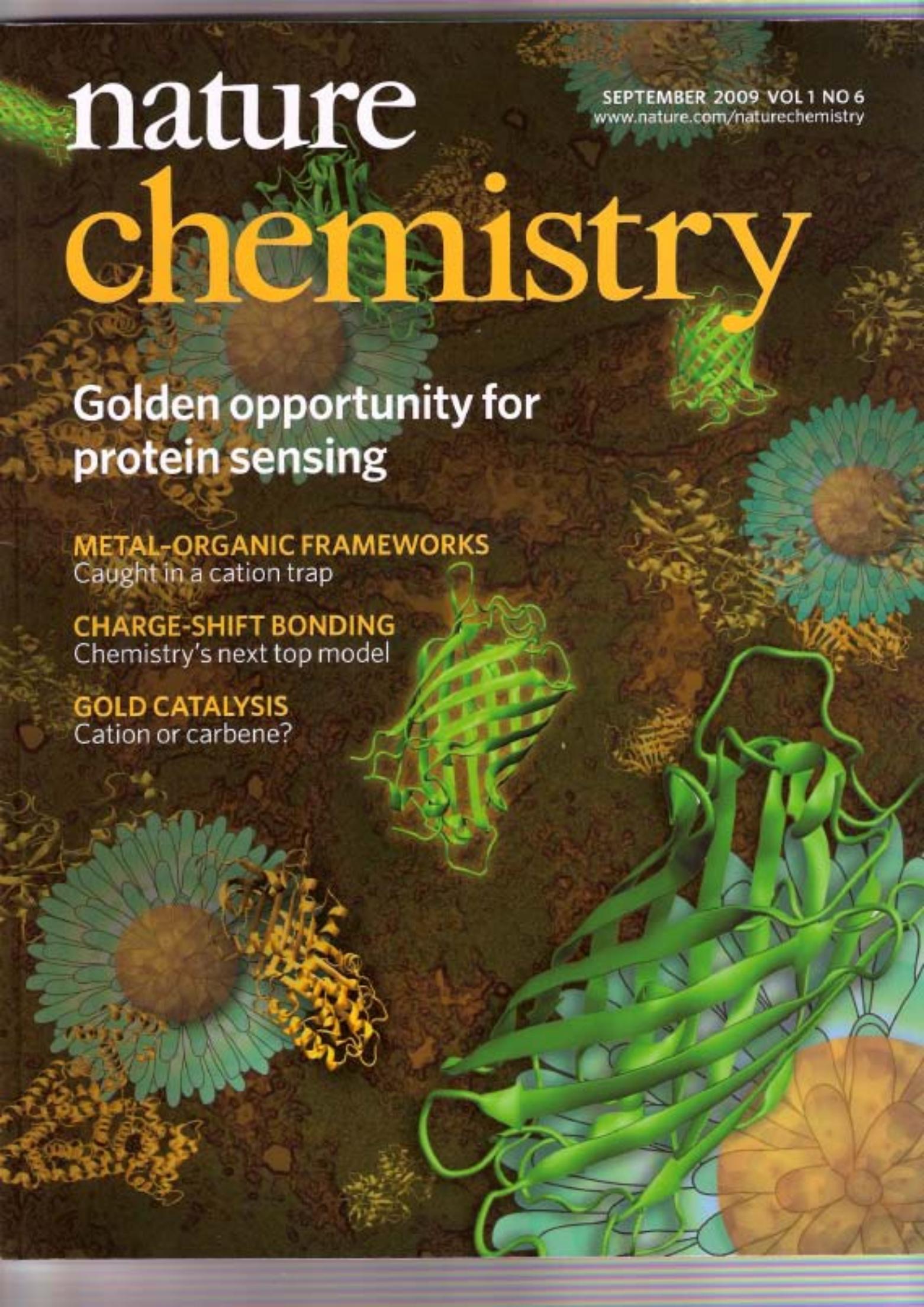


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Golden opportunity for protein sensing

METAL-ORGANIC FRAMEWORKS

Caught in a cation trap

CHARGE-SHIFT BONDING

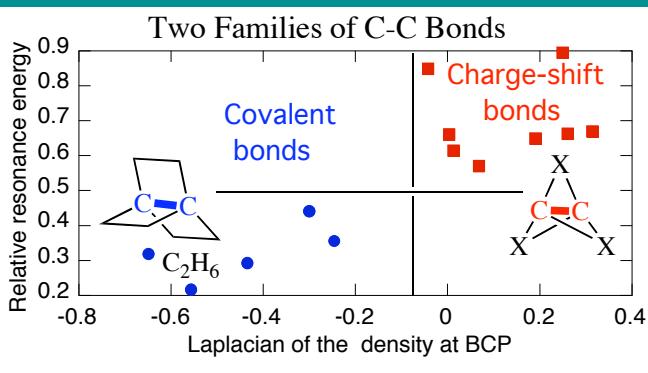
Chemistry's next top model

GOLD CATALYSIS

Cation or carbene?

ARTICLES

Like in a phase diagram 16 C-C bonds separate into two bond families; classical covalent bonds, where bonding arises from spin pairing, and charge shift bonds, where spin pairing is destabilizing and bonding arises from the covalent-ionic resonance energy!



S. Shaik*, Z. Chen, W. Wu, A. Stanger, D. Danovich, P.C. Hiberty

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An Excursion From Normal to Inverted C-C Bonds Shows a Clear Demarcation between Covalent and Charge-Shift C-C Bonds