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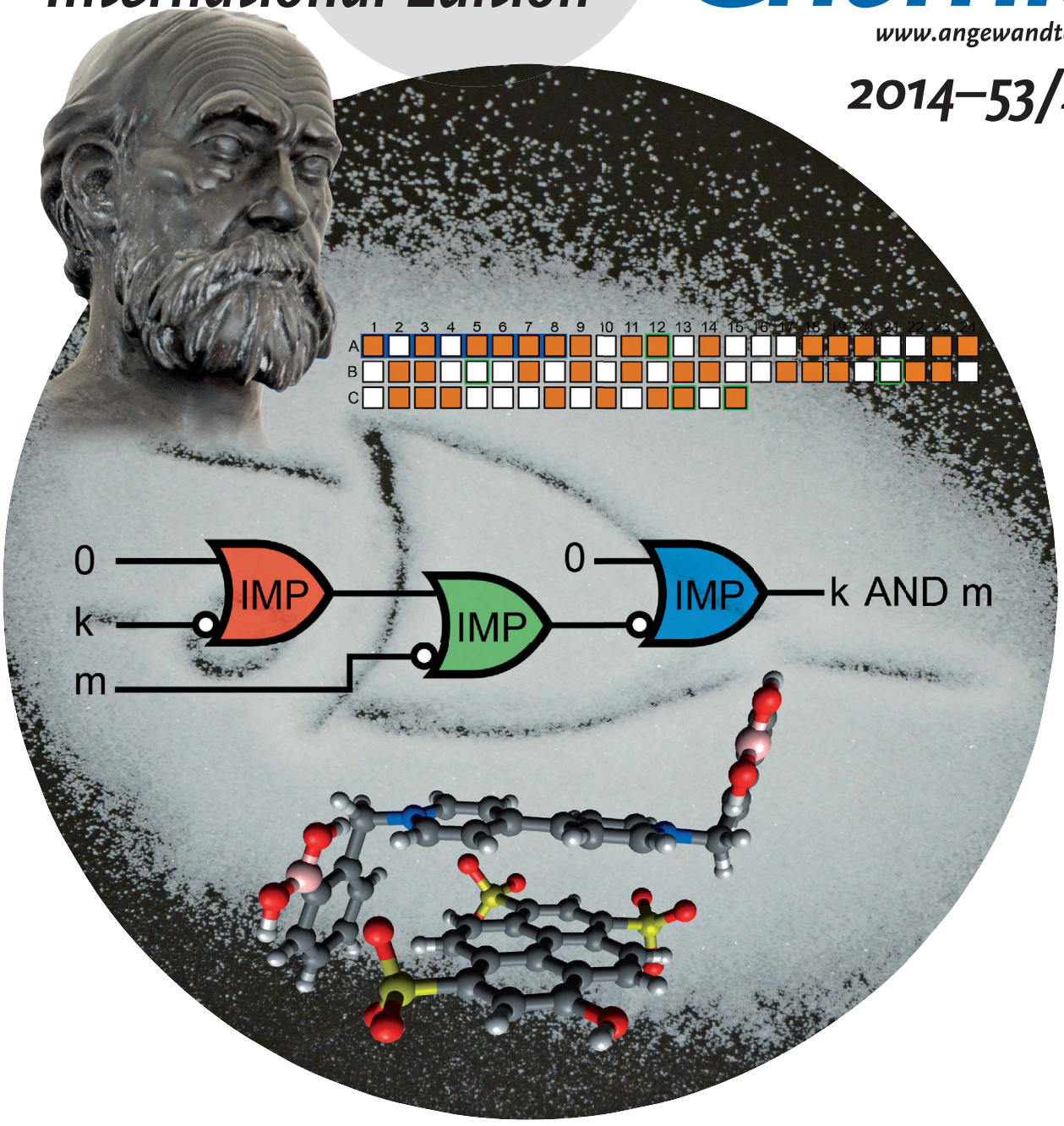

Molecular logic and computing ...

… are based on the principles derived by Prof. Frege (University of Jena, 1848–1925). A. Schiller and co-workers present in their Communication on page 7339 ff. a method to integrate an (in principle) unlimited number of molecular logic gates to construct complex circuits on microtiter plates. Using a fluorescent boronic acid fructose probe and the FALSE operation, an external wiring algorithm translates the fluorescent output from one gate into a chemical input for the next gate by pipetting steps.

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