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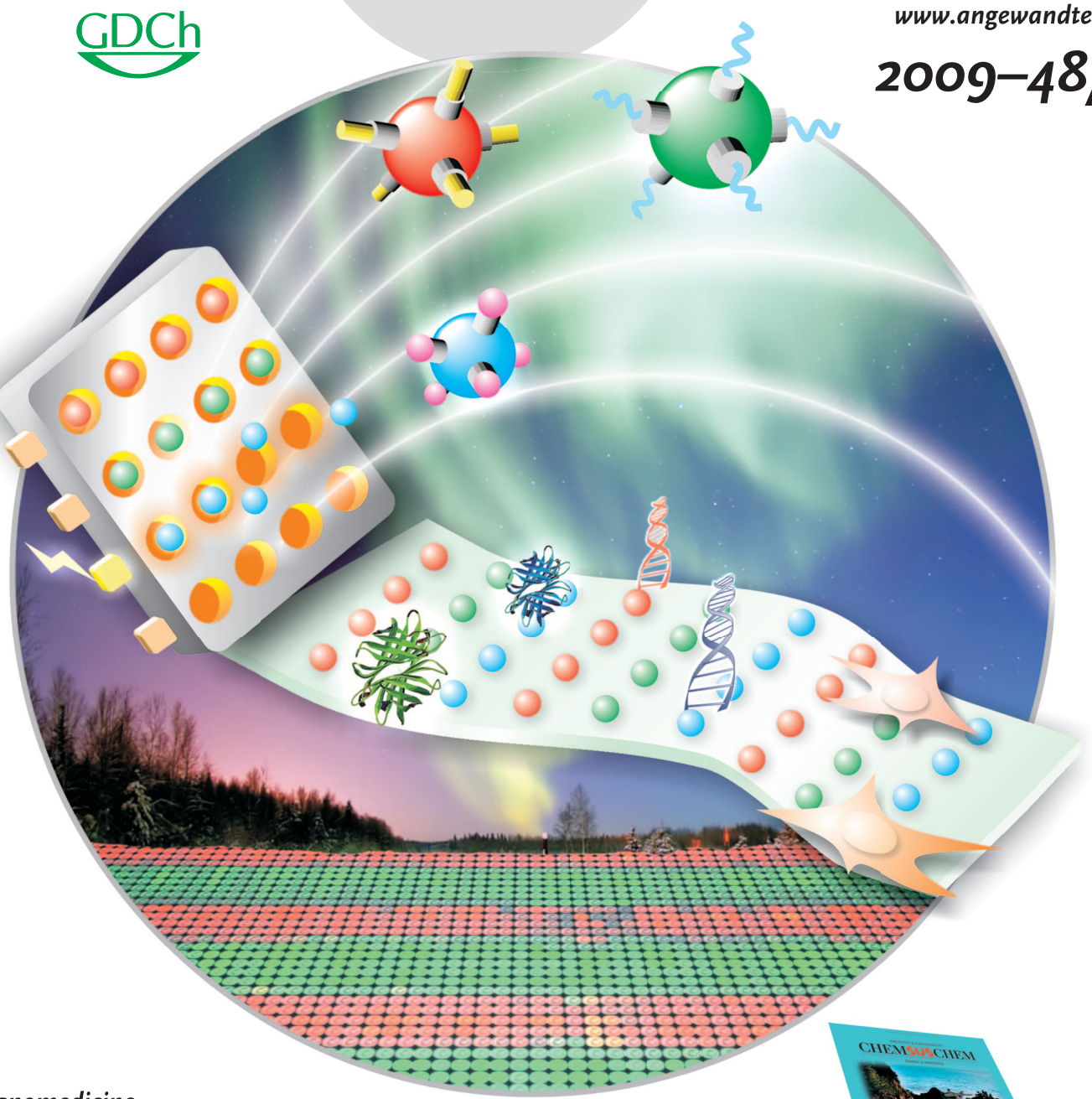

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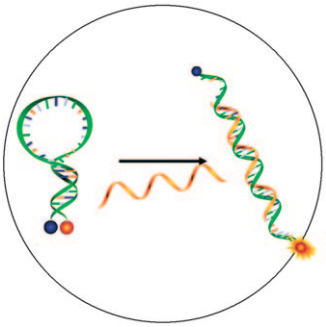
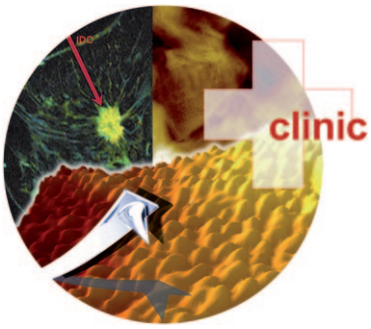
Cover Picture

Zhen Gu,* Suxian Huang, and Yong Chen*

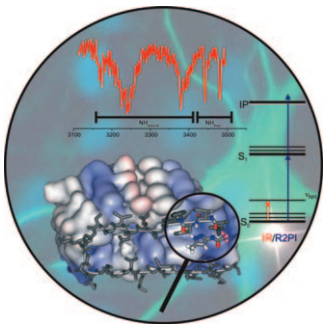
Biomolecular nanopatterns can be quickly fabricated over a large area with a resolution down to 10 nm by magnetic electric lithography, as reported by Z. Gu, S. Huang, and Y. Chen in their Communication on page 952 ff. Magnetic nanoparticles coated with multiple distinct biomolecules are deposited by a magnetic field and immobilized onto nanoelectrodes by an electric field to generate arbitrary heterogeneous biomolecular nanopatterns, which can then be printed onto polymer films for diverse biomedical applications.



Molecular Beacons
Current research trends in the field of molecular beacons are highlighted by K. Wang, W. Tan, and co-workers in their Minireview on page 856 ff. Particular attention is paid to the targeted modification of the probe structure for specific applications.



Nanomedicine
The field of nanomedicine is described by H. Fuchs, K. Riehemann et al. in their Review on page 872 ff. What advantages do drug formulations and diagnostic probes based on nanoparticles have?



Peptides in the Gas Phase
In their Communication on page 900 ff., M. Gerhards and co-workers use UV/IR spectroscopy to investigate the interactions of small protected peptides with aminopyrazole derivatives in the gas phase.