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## Evolution of mixed-mode from “mixing” silica gels to core-shell mixed-mode technology

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In recent years, mixed-mode chromatography emerged as a powerful separation technique with alternative selectivity. Evolution of this technology covering old “mixing” approach and single ligand design is being discussed with the emphasis on selectivity benefits and critical applications. Comparison of single, dual, tri-modal columns are offered and evaluated. The first line of core-shell mixed-mode stationary phases is presented. Numerous examples in pharmaceutical, environmental, food and agricultural sciences are presented.

### Biography

Vlad Orlovsky graduated with MSc in Organic Synthesis from Ufa Petrochemical University in 1987. In 1992, he moved to United States to continue developing his skills in organic chemistry. He joined Pfizer in 1993 as a Research Chemist. After working at Pfizer, he co-founded SIELC Technologies with a goal to develop better separation technologies. In collaboration with his colleagues, he developed over 23 new commercial stationary phases. His continuing research and development in this field resulted in development of the first ever core-shell mixed-mode stationary phases. He has 5 patents and a dozen publications in scientific journals.

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