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**Mixed-mode liquid chromatography with a stationary phase co-functionalized with ionic liquid embedded C18 and an aryl sulfonate group**

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Highlights:

- A new mixed-mode stationary phase was prepared by click chemistry reaction.
- Switchable mode of column can be realized by changing mobile phase conditions.
- Ionic liquid, C18 and sulfonate groups endowed the column with multi interactions.
- The column showed the potential in the analysis of complex samples.



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