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Multi-term time-fractional Bloch equations and application in magnetic resonance imaging

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**Highlights**

- **We consider anomalous relaxation processes of human tissue.**
- **We explore the utility of the multi-term time-fractional Bloch equations.**
- **We proposed an effective predictor-corrector method to solve MTFBE.**
- **A feasible parameter estimation method was introduced.**
- **The extra time-fractional terms provide flexibility in the relaxation process.**

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