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r TPPM: Towards Improving Solid-State NMR Two-Pulse Phase-Modulation Heteronuclear Dipolar Decoupling Sequence by Refocusing

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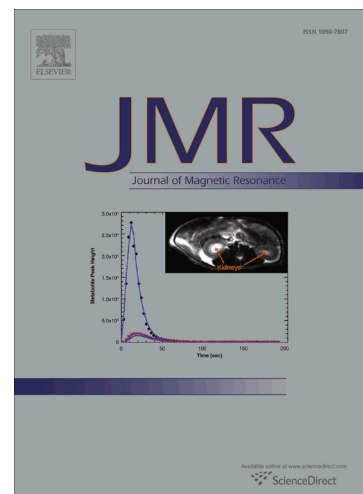
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*r*TPPM: Towards Improving Solid-State NMR
Two-Pulse Phase-Modulation Heteronuclear Dipolar
Decoupling Sequence by Refocusing

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Abstract

We present here a simple refocused modification, *r*TPPM, of the Two-Pulse Phase-Modulation (TPPM) heteronuclear decoupling method, which improves decoupling and makes the sequence much more robust with respect to essential experimental parameters. The modified sequence is compared with the established TPPM sequence and a variety of other decoupling sequences at low to moderate magic-angle spinning frequencies. Simulations are shown to compare TPPM and *r*TPPM with respect to various experimental pa-

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