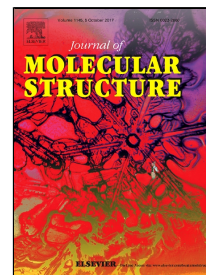


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Synthesis and characterization of proton conductive liquid crystals bearing phosphonic acid moieties

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Highlights

- ▶ Mesomorphic phosphonic acid derivatives were synthesized.
- ▶ The derivatives exhibited smectic A and nematic phases.
- ▶ A bilayer structure formed in the smectic A phase.
- ▶ The liquid crystal phases favored proton conduction.

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