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$\text{Pb}_8\text{M}(\text{BO}_3)_6$ ($\text{M} = \text{Mg}, \text{Ca}$): Two new borates with large birefringence activated by $\infty[\text{Pb}_8\text{B}_6\text{O}_{18}]^{2-}$ double layers

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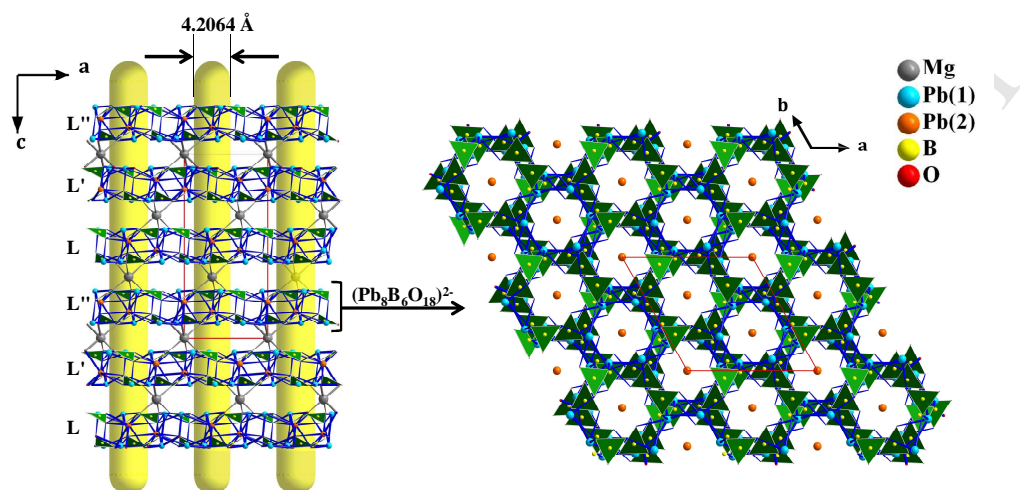
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The substitution strategy based on theory of acid and alkali was adopted and we successfully designed $\text{Pb}_8\text{Mg}(\text{BO}_3)_6$ and $\text{Pb}_8\text{Ca}(\text{BO}_3)_6$ with calculated birefringence equal to 0.12 and 0.15@1064 nm, respectively.



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