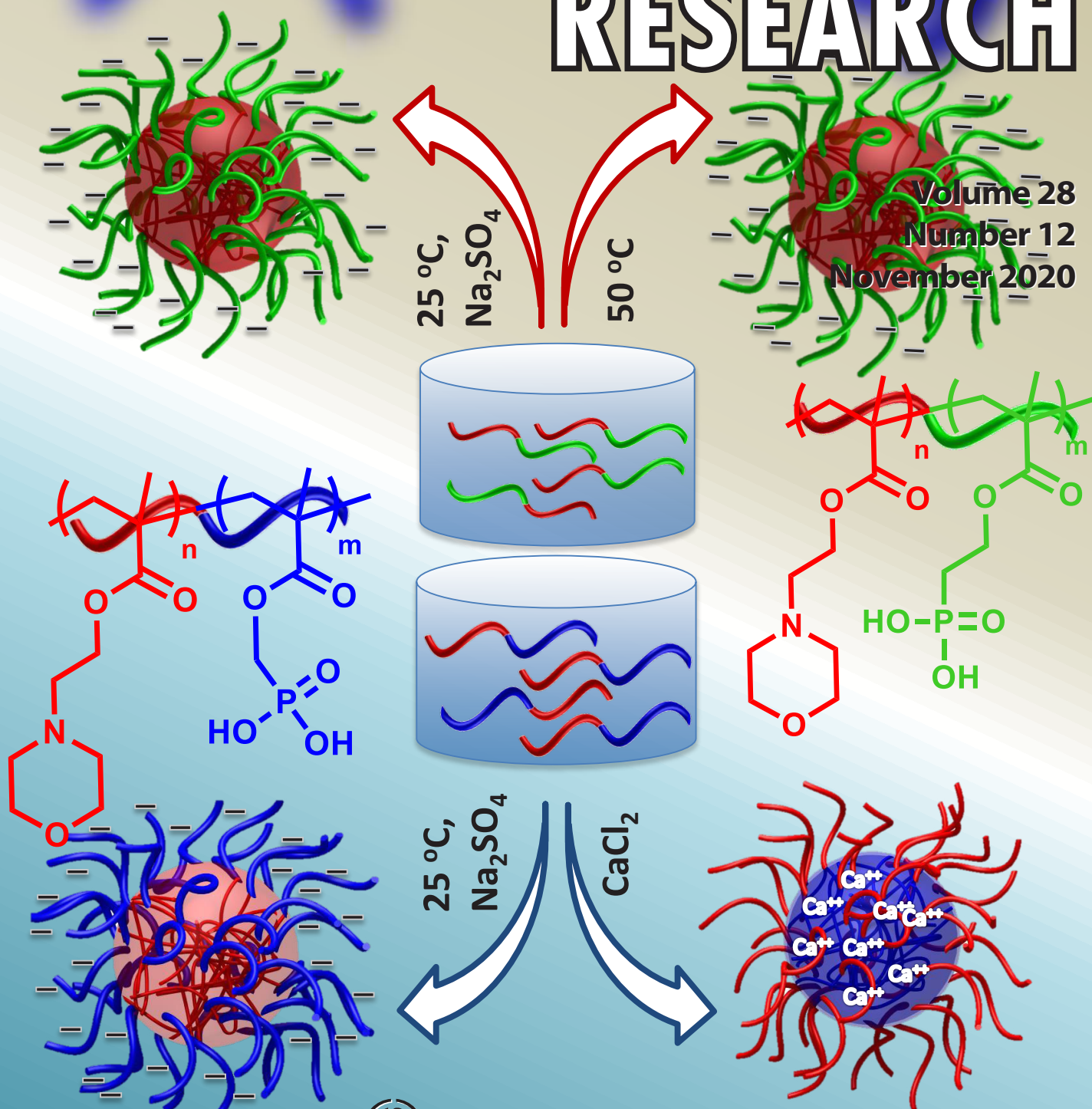


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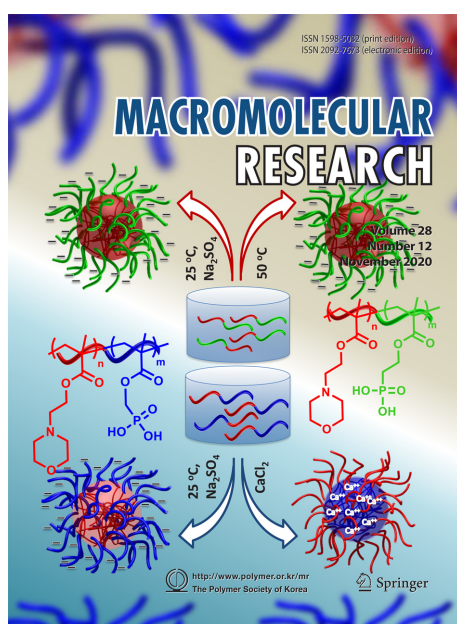


Cover Paper

Preparation of Responsive Zwitterionic Diblock Copolymers Containing Phosphate and Phosphonate Groups

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Surface-active novel zwitterionic diblock copolymers form core-shell micelles in basic aqueous media due to one block having salt- and thermo-responsive nature. They also interact strongly with calcium cations and yield reverse micellar structures *via* complexation of phosphate groups with metal cations in aqueous media. Due to their stimuli responsive nature, these polymers are good candidates for various applications. They can be used as promoter for paints, lacquers and adhesives, as complexing agents for separating metal ions from environmental and industrial liquids, as agents in the crystallization of CaCO₃, and as drug delivery/releasing systems in biotechnology.

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