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A new flocculant derived from pea starch grafted acrylamide was polymerized at 65 °C with a starch-toacrylamide ratio of 1:2. Under the optimal dosage of 40 mgL⁻¹ and pH 6-8, the new flocculant is environmental friendly with outstanding treatment performance on coalmine wastewater. This flocculant has the possibility to replace PAM and support a wide range of applications in the future. (DOI: 10.1002/app.43922)



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