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287 Effect of Urbanization Process on Water Environment Pollution and Analysis of Regional Differences SHEN Wen-jing,*et al.*
291 Research on Defence System of National Defense Patent under Military-People Integration System ZOU Gang,*et al.*
294 Analysis of Differences Between Chinese List Pricing Rules and British and American List Pricing MA Li-ya,*et al.*
297 The Influence of Urbanization on County Economic Growth in Ethnic Areas of Sichuan Province PENG Yue-miao,*et al.*

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