On pseudo-GP-injectivity

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For a given right R-module M, a right R-module N is called pseudo-M-GP-injective if for any $0 \neq s \in S = End_R(M)$, there exists $n \in \mathbb{N}$ such that $s^n \neq 0$ and any monomorphism from $s^n(M)$ to N can be extended to a homomorphism from M to N. In this work, we extend this notion and investigate the class of pseudo-M-GP-injective module, study some properties of quasi-pseudo-GP-injective modules and their endomorphism rings. As application, we can get some results to all right self-pseudo-GP-injective rings as corollaries when $M = R_R$.

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