

**Roger Yue Chi Ming**

*On  $p$ -injectivity, YJ-injectivity and quasi-Frobeniusean rings*

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**Abstract:** A new characteristic property of von Neumann regular rings is proposed in terms of annihilators of elements. An ELT fully idempotent ring is a regular ring whose simple left (or right) modules are either injective or projective. Artinian rings are characterized in terms of Noetherian rings. Strongly regular rings and rings whose two-sided ideals are generated by central idempotents are characterized in terms of special annihilators. Quasi-Frobeniusean rings are characterized in terms of  $p$ -injectivity. Also, a commutative YJ-injective ring with maximum condition on annihilators and finitely generated socle is quasi-Frobeniusean.

**Keywords:** von Neumann regular,  $V$ -ring, Artinian ring,  $p$ -injectivity, YJ-injectivity, quasi-Frobeniusean

**AMS Subject Classification:** 16D30, 16D36, 16D50