	doc_1		doc_2		decision	id
cases	authors	• Qi Su-ying	authors	Wan-Tong Li Jurang Yan		
	title	Oscillation of First Order Neutral Differential Equations With Positive and Negative Coefficients	title	Oscillation of first order neutral differential equations with positive and negative coefficients		
	publication_date None		publication_date None			
	source	SupportedSources.SEMANTIC SCHOLAR	source	SupportedSources.SEMANTIC_SCHOLAR	NOT DUPLICATES 474 s.	
	journal		journal	Collectanea Mathematica		
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	urls	https://www.semanticscholar.org/paper/cdb15214c03ad490f5ef1134bd3503c2b2b90678	urls	https://www.semanticscholar.org/paper/284b891b4fb440b6056600f20aca2331d52d8bbe		
	id	id3447620795642561629	id	id2869437965231326637		
	abstract	Sufficient conditions for the oscillation of the neutral equation $d/dt[x(t)-R(t)x(t-r)]+P(t)x(t-T)-Q(t)x(t-\hat{I}')=0$, where $P,Q,R\hat{a}^C\{[t_0,\hat{a}^z),R^{-+},r,t,\hat{I}'\hat{a}^{-}(0,\hat{a}^z),are obtained,where R(t)+(?)_{-}(t-T+\hat{I}')-t Q(u)du-1 is allowed to oscillate and(?)_{-}(t_0)-\hat{a}^z[P(s)-Q(s-t+\hat{I}')](?)_{-}s-\hat{a}^z[P(u)-Q(u-t+\hat{I}')duds=\hat{a}^z].$	abstract	We obtain some new sharp sufficient conditions for the oscillation of all solutions of the first order neutral differential equation with positive and negative coefficients of the form $f(t) = t^2 + t^2 $		
	versions			As corollaries, many known results are extended and improved in the literature.		
			versions			