Variation of discrete spectra of non-selfadjoint operators

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A classical result of Kato states that for two bounded selfadjoint operators A, B with $B - A \in \mathcal{S}_p$, the Schatten ideal of order p, one has

$$\sum_{\lambda \in \sigma_d(B)} \text{dist}(\lambda, \sigma(A))^p \leq \|B - A\|_{\mathcal{S}_p}^p, \quad p \geq 1,$$

where $\sigma_d(B)$ denotes the discrete spectrum of B. In this talk, I will present some recent extensions of Kato's result to the case of non-selfadjoint operators.