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**Operator ideals related to absolutely summing and Cohen strongly summing operators.**

(English) [Zbl 1373.47058](#)

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Summary: We study the ideals of linear operators between Banach spaces determined by the transformation of vector-valued sequences involving the new sequence space introduced by *A. K. Karn* and *D. P. Sinha* [*Glasg. Math. J.* 56, No. 2, 427–437 (2014; [Zbl 1301.46004](#))] and the classical spaces of absolutely, weakly and Cohen strongly summable sequences. As applications, we prove a new factorization theorem for absolutely summing operators and a contribution to the existence of infinite-dimensional spaces formed by nonabsolutely summing operators is given.

**MSC:**

[47L20](#) Operator ideals

[46B45](#) Banach sequence spaces

[47B10](#) Linear operators belonging to operator ideals (nuclear,  $p$ -summing, in the Schatten-von Neumann classes, etc.)

Cited in **1** Review  
Cited in **5** Documents

**Keywords:**

Banach sequence spaces; operator ideals; summing operators

**Full Text:** [DOI](#) [arXiv](#)