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About the Cover:

Non-Hermitian systems hosting exceptional points exhibit signal enhancement and unconventional mode dynamics. Going beyond isolated exceptional points, we uncover exceptional rings in planar optical resonators with circular dichroism and TE–TM splitting. When Kerr-type nonlinearity or saturable gain is introduced, the single linear exceptional ring splits into a quasi-torus of 2nd and 3rd order exceptional rings in the parameter space. Bridging the linear and nonlinear regimes through rigorous spectral and band-topology analysis, we reveal enhanced and tunable perturbation responses driven by nonlinearity as well as providing calculations of topological invariants both in the linear and nonlinear regime. Our findings

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REVIEWS

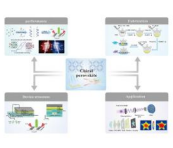
Chiral Perovskites: Controlled Synthesis and Photonic Device Applications

Xiaochen Fang, Qing Huang, Ronggan Lu, Yang Tang, Youjun Lu, Biao Zheng, Dongdong Yan*, Zhanhui Yuan*, Rubén Ahijado Guzmán*, and Weixiang Ye*

ACS Photonics 2026, 13, 12, 3211-3237 **(Review)**
Publication Date (Web): June 8, 2026

Abstract | Full text | PDF

ABSTRACT



ARTICLES

Exceptional Rings in Nonlinear Non-Hermitian Planar Optical Microcavities: Implementation, Signal Enhancement, and Topology

Jan Wingenbach*, Laura Ares, Xuekai Ma, Nai H. Kwong, Jan Sperling, Rolf Binder, and Stefan Schumacher

ACS Photonics 2026, 13, 12, 3238-3251 **(Article)**
Publication Date (Web): March 16, 2026

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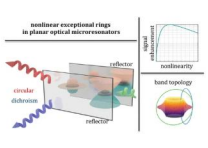
ABSTRACT