

Spin-to-orbital angular momentum conversion in dielectric metasurfaces: erratum

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Abstract: We would like to clarify our paper [Opt. Express **25**, 377 (2017)] abstract sentence “These beams carry orbital angular momentum proportional to the number of intertwined helices constituting the wavefront.”

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OCIS codes: (350.1370) Berry's phase; (230.0230) Optical devices.

References and links

1. R. C. Devlin, A. Ambrosio, D. Wintz, S. L. Oscurato, A. Y. Zhu, M. Khorasaninejad, J. Oh, P. Maddalena, and F. Capasso, “Spin-to-orbital angular momentum conversion in dielectric metasurfaces,” Opt. Express **25**(1), 377-393 (2017).
2. M. V. Berry, “Paraxial beams of spinning light,” in *Proc. SPIE Conf. Singular Optics 3487*, M. S. Soskin ed. (SPIE, 1998), pp. 6–11.

1. Introduction

In general the number of vortices in a beam and the orbital angular momentum of the beam are not directly related. In fact, the orbital angular momentum is not associated, in general, with the wave dislocations. This is well described for instance in reference [2].

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