

On nanostructured silicon success - DTU Orbit (08/11/2017)

On nanostructured silicon success

Recent Letters by Piggott et al. 1 and Shen et al. 2 claim the smallest ever dielectric wave length and polarization splitters. The associated News & Views article by Aydin³ states that these works “are the first experimental demonstration of on-chip, silicon photonic components based on complex all-dielectric nanophotonic structures.” Here, we question the rationale behind the competition for a small device footprint as set out by the authors of the two papers 1,2 and also point out a lack of appropriate historical context in the three contributions 1–3.

General information

State: Published

Organisations: Department of Mechanical Engineering, Solid Mechanics, Department of Electrical Engineering, Acoustic Technology, Department of Photonics Engineering, Nanophotonic Devices

Authors: Sigmund, O. (Intern), Jensen, J. S. (Intern), Frandsen, L. H. (Intern)

Pages: 142-143

Publication date: 2016

Main Research Area: Technical/natural sciences

Publication information

Journal: Nature Photonics

Volume: 10

Issue number: 3

ISSN (Print): 1749-4885

Ratings:

BFI (2017): BFI-level 2

Web of Science (2017): Indexed yes

BFI (2016): BFI-level 2

Scopus rating (2016): CiteScore 21.32 SJR 15.831 SNIP 9.983

Web of Science (2016): Indexed yes

BFI (2015): BFI-level 2

Scopus rating (2015): SJR 17.597 SNIP 9.997 CiteScore 21.47

Web of Science (2015): Indexed yes

BFI (2014): BFI-level 2

Scopus rating (2014): SJR 14.556 SNIP 9.949 CiteScore 17.25

Web of Science (2014): Indexed yes

BFI (2013): BFI-level 2

Scopus rating (2013): SJR 13.612 SNIP 9.461 CiteScore 16.32

ISI indexed (2013): ISI indexed yes

Web of Science (2013): Indexed yes

BFI (2012): BFI-level 2

Scopus rating (2012): SJR 13.418 SNIP 8.003 CiteScore 13.46

ISI indexed (2012): ISI indexed yes

Web of Science (2012): Indexed yes

BFI (2011): BFI-level 2

Scopus rating (2011): SJR 11.69 SNIP 9.289 CiteScore 12.13

ISI indexed (2011): ISI indexed yes

Web of Science (2011): Indexed yes

BFI (2010): BFI-level 2

Scopus rating (2010): SJR 10.754 SNIP 8.328

Web of Science (2010): Indexed yes

BFI (2009): BFI-level 2

Scopus rating (2009): SJR 8.577 SNIP 11.176

BFI (2008): BFI-level 2

Scopus rating (2008): SJR 6.481 SNIP 6.9

Web of Science (2007): Indexed yes

Original language: English

DOIs:

10.1038/nphoton.2016.26

Source: FindIt

Source-ID: 2292444099

Publication: Research - peer-review › Letter – Annual report year: 2016