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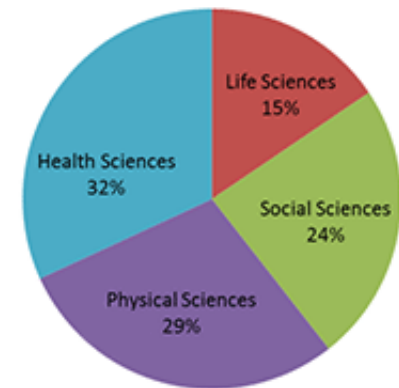
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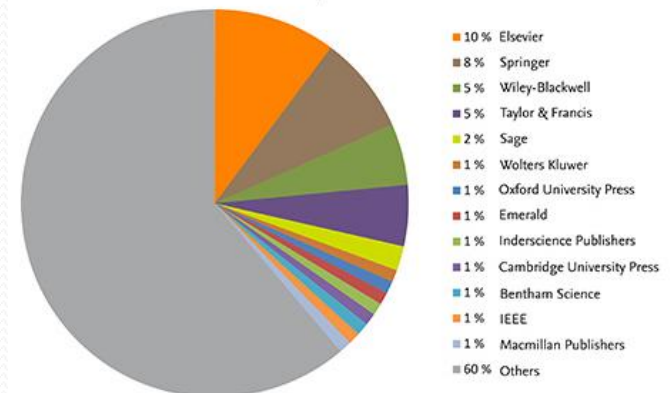
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Campi interrogabili: notare l'interrogabilità degli indirizzi di affiliazione

Ricerca di documenti

The screenshot shows a search interface with the following elements:

- Document search** (circled in red)
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 - 7 DOI (10.1111/j.1477-9552.2012.00368.x)
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- Possibilità di comporre interrogazioni in diversi campi con gli operatori booleani** (points to the AND/OR/AND NOT operators)
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- Limitazioni della ricerca relative alla tipologia** (points to the Document type dropdown menu)

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172,548 document results

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Year

- 2016 (193)
- 2015 (8,127)
- 2014 (9,256)
- 2013 (9,161)
- 2012 (8,493)

Author Name

- Tunnermann, A. (245)
- Ahmad, H. (226)
- Zhang, H. (208)
- Xu, Z. (200)
- Harun, S.W. (199)

Subject Area

- Physics and Astronomy (122,621)
- Engineering (60,213)
- Materials Science (33,919)
- Chemistry (14,415)
- Medicine (10,529)

Document Type

- Article (172,548)

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Room-temperature ultraviolet nanowire nanolasers 1 Huang, M.H., Mao, S., Feick, H., (..), Russo, R., Yang, P. 2001 Science 7292

Skehan, P., Storey, Kenney, S., Boyd, ... National Cancer Institute 5773

Sensitive Measurement of Optical Nonlinearities Using a Single Beam 3 Sheik-Bahae, M., Said, A.A., Wei, T.-H., Hagan, D.J., Van Stryland, E.W. 1990 IEEE Journal of Quantum Electronics 4740

Light speed reduction to 17 metres per second in an ultracold atomic gas 4 Vestergaard Hau, L., Harris, S.E., Dutton, Z., Behroozi, C.H. 1999 Nature 2661

Fiber grating sensors 6 Kersey, A.D., Davis, M.A., Patrick, H.J., (..), Putnam, M.A., Friebele, E.J. 1997 Journal of Lightwave Technology 15 (8), pp. 1442-1462 2485 Cited by

Cancer cell imaging and photothermal therapy in the near-infrared region by using gold nanorods 6 Huang, X., El-Sayed, I.H., Qian, W., El-Sayed, M.A. 2006 Journal of the American Chemical Society 2402

Orbital angular momentum of light and the transformation of Laguerre-Gaussian laser modes 7 Allen, L., Beijersbergen, M.W., Spreeuw, R.J.C., Woerdman, J.J. 1992 Physical Review A 2342

Spectral Properties and Relaxation Dynamics of Surface Plasmon Electronic Oscillations in Gold and Silver Nanodots and Nanorods 8 Link, S., El-Sayed, M.A. 1999 Journal of Physical Chemistry B 103 (14), pp. 3099-3102 2342

Cold bosonic atoms in optical lattices 9 Jaksch, D., Bruder, C., Cirac, J.I., Gardiner, C.W., Zoller, P. 1998 Physical Review Letters 2175

Graphene-based photonic crystal waveguide 10 Bonaccorso, F., Sun, Z., Hasan, T., Ferrari, A.C. 2010 Nature Photonics 2121

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Informazioni bibliografiche e bibliometriche sul periodico

Nature Materials

Volume 11, Issue 5, May 2012, Pages 432-435

A super-oscillatory lens optical microscope for subwavelength

Rogers, E.T.F.^a, Lindberg, J.^b, Roy, T.^a, Savo, S.^a, Chad, J.E.^c, Dennis, M.R.^b, Zheludev, N.I.^a

^a Optoelectronics Research Centre, Centre for Photonic Metamaterials, University of Southampton, Southampton S

^b H. H.Wills Physics Laboratory, University of Bristol, Bristol BS8 1TL, United Kingdom

^c Institute for Life Sciences, University of Southampton, Southampton SO17 1BJ, United Kingdom

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Abstract

The past decade has seen an intensive effort to achieve optical imaging resolution beyond the diffraction limit. This has led to a variety of approaches, such as near-field optical microscopy, super-resolution microscopy, and subwavelength imaging. However, these approaches necessitate the lens either to be in the near proximity of the object or manufactured on it, or work only for a narrow class of samples, such as intensely luminescent or sparse objects. Here we report a new super-resolution microscope for optical imaging that beats the diffraction limit of conventional instruments and the recently demonstrated near-field optical superlenses and hyperlenses. This non-invasive subwavelength imaging paradigm uses a binary amplitude mask for direct focusing of laser light into a subwavelength spot in the post-evanescent field by precisely tailoring the interference of a large number of beams diffracted from a nanostructured mask. The new technology, which in principle has no physical limits on resolution, could be universally used for imaging at any wavelength and does not depend on the luminescence of the object, which can be tens of micrometres away from the mask. It has been implemented as a straightforward modification of a conventional microscope showing resolution better than $\lambda/6$. © 2012 Macmillan Publishers Limited. All rights reserved.

Indexed keywords

Binary amplitude mask; Conventional instruments; Diffraction limits; Laser lights; Nano-structured; Near-field; Negative index; Optical imaging; Optical microscopes; Physical limits; Sub-wavelength; Subwavelength imaging; Super resolution; Superlenses

Engineering controlled terms: Light; Luminescence; Optical image storage; Optical resolving power

Engineering main heading: Diffraction

ISSN: 14761122 CODEN: NMAAC Source Type: Journal Original language: English
DOI: 10.1038/nmat3280 Document Type: Article

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Pendry, J.B.

1 **Negative refraction makes a perfect lens**

(2000) *Physical Review Letters*, 85 (18), pp. 3966-3969. Cited 6937 times.
doi: 10.1103/PhysRevLett.85.3966

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Journal Metrics

Subject Area: Chemistry, Engineering: Mechanical Engineering, Engineering: Mechanics of Materials, Materials Science, Medicine, Physics and Astronomy: Condensed Matter Physics

Publisher: Nature Publishing Group
ISSN: 1476-1122
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Scopus Coverage Years: from 2002 to Present

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(2015) *Optics Communications*

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(2015) *Nature Communications*

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(2013) *Journal of Optics (United Kingdom)*

Mathematical concepts of optical superresolution
Lindberg, J.
(2012) *Journal of Optics (United Kingdom)*

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1

(1978) *Appl. Phys. Lett.*, 32, p. 647. Cited 1341 times.

Stone, J.

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Photorefractivity in GeO₂-doped silica fibers

(1987) *Journal of Applied Physics*, 62 (11), pp. 4371-4374. Cited 29 times.

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Payne, F.P.

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(1989) *Electronics Letters*, 25 (8), pp. 498-499. Cited 16 times.

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Hand, D.P., Russell, R.St.J.

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(1990) *Opt. Lett.*, 15, p. 102. Cited 161 times.

Meltz, G., Morey, W.W., Glenn, W.H.

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Kashyap, R.

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Photosensitive Optical Fibers: Devices and Applications

(1994) *Optical Fiber Technology*, 1 (1), pp. 17-34. Cited 105 times.

doi: 10.1006/ofte.1994.1003

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Cos-θ Design of Dipole Inserts Made of REBCO-Roebel or BSCCO-Rutherford Cables Lorin, C., Segreti, M., Ballarino, A., (...), Rifflet, J.-M., Rossi, L. 2015 IEEE Transactions on Applied Superconductivity 2

Status of the 11 T Nb3Sn dipole project for the LHC Savary, F., Andreev, N., Apollinari, G., (...), Velev, G., Zlobin, A.V. 2015 IEEE Transactions on Applied Superconductivity

The EuCARD-2 future magnets European collaboration for accelerator-quality HTS magnets Rossi, L., Badel, A., Bajko, M., (...), Yang, Y., Zangenberg, N. 2015 IEEE Transactions on Applied Superconductivity 6

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