



Complex Light and Optical Forces XI

Proceedings of SPIE - Vol. 10120

Andrews, David L.; Galvez, Enrique J.; Glückstad, Jesper

Publication date:
2017

Document Version
Publisher's PDF, also known as Version of record

[Link back to DTU Orbit](#)

Citation (APA):

Andrews, D. L., Galvez, E. J., & Glückstad, J. (Eds.) (2017). *Complex Light and Optical Forces XI: Proceedings of SPIE - Vol. 10120*. SPIE - International Society for Optical Engineering. Proceedings of SPIE - The International Society for Optical Engineering

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.



SEARCH

ADVANCED SEARCH

HOME

PROCEEDINGS

JOURNALS

eBOOKS

TOPIC COLLECTIONS

LIBRARIANS

Proceedings Home

Browse Proceedings >

by Conference

By Year

by Volume No.

by Volume Title

< Previous Volume Next Volume >

IN THIS VOLUME

- Vector Polarization (2)
- Optical Vortex Generation (2)
- Beam Properties (2)
- Optical Angular Momentum (3)
- Optical Structuring and Fabrication (1)
- Chiral Interactions (2)
- Structured Beams (3)
- Optical Information (3)
- Optical Singularities (3)
- Optical Forces (1)
- Optical Manipulation (3)
- Poster Session (2)

Email Alert

Volume 10120**Complex Light and Optical Forces XI**

David L. Andrews; Enrique J. Galvez; Jesper Glückstad

San Francisco, California, United States | January 28, 2017

[Basic View](#) | [Expanded View](#)**Vector Polarization****+ Vortex beams and optical activity of sucrose**

Ethan Bendau, Lin Zhang, Richard Gozali, Solyman Ashrafi, Robert R. Alfano

*Proc. SPIE* 10120, Complex Light and Optical Forces XI, 1012004 (February 27, 2017); doi: 10.1117/12.2251493**+ Precise transverse alignment of a vectorial optical-field generator for complex optical field generation**

Jian Chen, Chenhao Wan, Lingjiang Kong, Qiwen Zhan

Proc. SPIE 10120, Complex Light and Optical Forces XI, 1012005 (February 27, 2017); doi: 10.1117/12.2250192**Optical Vortex Generation****+ Optimizing beams with transverse vortices**

Daryl Preece, Halina Rubinsztein-Dunlop

Proc. SPIE 10120, Complex Light and Optical Forces XI, 1012008 (February 27, 2017); doi: 10.1117/12.2251628**+ Photon sieves for creating and identifying orbital angular momentum of light**

O. Asmolova, G. P. Andersen, M. Anderson, M. A. Cumming

Proc. SPIE 10120, Complex Light and Optical Forces XI, 1012009 (February 27, 2017); doi: 10.1117/12.2249626**Beam Properties****+ Deducing 3-dimensional polarization fields from projective measurements**

Enrique J. Galvez, Ishir Dutta

Proc. SPIE 10120, Complex Light and Optical Forces XI, 101200B (February 27, 2017); doi: 10.1117/12.2253281**+ Geometrical interpretation of quantum weak measurement**

C. T. Samlan, Nirmal Viswanathan

Proc. SPIE 10120, Complex Light and Optical Forces XI, 101200D (February 27, 2017); doi: 10.1117/12.2249558**Optical Angular Momentum****+ Pulse, polarization and topology shaping of polariton fluids**

Lorenzo Dominici, David Colas, Stefano Donati, Galbadrakh Dagvadorj, Antonio Gianfrate, Carlos Sánchez Muñoz, Dario Ballarini, Milena De Giorgi, Giuseppe Gigli, Marzena H. Szymańska, Fabrice P. Laussy, Daniele Sanvitto

Proc. SPIE 10120, Complex Light and Optical Forces XI, 101200E (February 27, 2017); doi: 10.1117/12.2250997

-
-  [Parallel transport of fiber mode structure: orbit-orbit interaction](#)  PDF
T. Pradeep Chakravarthy, Dinesh N. Naik, Nirmal K. Viswanathan
Proc. SPIE 10120, Complex Light and Optical Forces XI, 101200F (February 27, 2017); doi: 10.1117/12.2252060
-
-  [Vortex-MEMS filters for wavelength-selective orbital-angular-momentum beam generation](#)  PDF
Sujoy Paul, Vladimir S. Lyubopytov, Martin F. Schumann, Julian Cesar, Mohammadreza Malekizandi, Mohammad T. Haidar, Alexei P. Porfirev, Stanislav O. Gurbatov, Martin Wegener, Arkadi Chipouline, Franko Küppers
Proc. SPIE 10120, Complex Light and Optical Forces XI, 101200G (February 27, 2017); doi: 10.1117/12.2252494
-
- ## Optical Structuring and Fabrication
-
-  [Development and characterization of a microsnap-fit for optical assembly](#)  PDF
J. Köhler, Y. Kutlu, S. I. Ksouri, C. Esen, A. Ostendorf
Proc. SPIE 10120, Complex Light and Optical Forces XI, 101200J (February 27, 2017); doi: 10.1117/12.2254951
-
- ## Chiral Interactions
-
-  [Searching for the helical-gradient force on chiral molecules](#)  PDF
J. A. Jones, B. Regan, J. Painter, J. Mills, I. Dutta, B. Khajavi, E. J. Galvez
Proc. SPIE 10120, Complex Light and Optical Forces XI, 101200M (February 27, 2017); doi: 10.1117/12.2253268
-
-  [Orientated molecular information from chiral rotational spectroscopy](#)  PDF
Jörg B. Götte, Robert P. Cameron, Stephen M. Barnett
Proc. SPIE 10120, Complex Light and Optical Forces XI, 101200N (February 27, 2017); doi: 10.1117/12.2253633
-
- ## Structured Beams
-
-  [Exploiting the spatial profiles of light](#)  PDF
A. Dudley, C. Rosales-Guzmán, A. Trichilli, A. Forbes
Proc. SPIE 10120, Complex Light and Optical Forces XI, 101200P (February 27, 2017); doi: 10.1117/12.2254753
-
-  [High-order Poincaré sphere with flower modes possessing orbital angular momentum](#)  PDF
Ting-Hua Lu, Teng-De Huang, Robert R. Alfano
Proc. SPIE 10120, Complex Light and Optical Forces XI, 101200Q (February 27, 2017); doi: 10.1117/12.2255807
-
-  [Array-specific propagation of flexibly structured ultra short pulses](#)  PDF
A. Treffer, M. Bock, U. Wallrabe, R. Grunwald
Proc. SPIE 10120, Complex Light and Optical Forces XI, 101200S (February 27, 2017); doi: 10.1117/12.2250520
-
- ## Optical Information
-
-  [Exploring topological phases in quantum walks of twisted light](#)  PDF
Filippo Cardano
Proc. SPIE 10120, Complex Light and Optical Forces XI, 101200V (February 27, 2017); doi: 10.1117/12.2251367
-
-  [Measuring the non-separability of optical fields](#)  PDF
B. Ndagano, H. Sroor, M. McLaren, C. Rosales-Guzmán, A. Forbes
Proc. SPIE 10120, Complex Light and Optical Forces XI, 101200W (February 27, 2017); doi: 10.1117/12.2254028
-
-  [Quantum-key distribution with vector modes](#)  PDF
B. Ndagano, I. Nape, B. Perez-Garcia, S. Scholes, R. I. Hernandez-Aranda, F. S. Roux, T. Konrad, A. Forbes
Proc. SPIE 10120, Complex Light and Optical Forces XI, 101200X (February 27, 2017); doi: 10.1117/12.2251465

Optical Singularities

- + [Single-beam acoustic tweezers](#)
Jean-Louis Thomas, Diego Baresch, Régis Marchiano
Proc. SPIE 10120, Complex Light and Optical Forces XI, 101200Y (February 27, 2017); doi: 10.1117/12.2252446

 PDF

- + [A mathematical toolbox for dark-ray optics](#)
Albert Ferrando, M. A. Garcia-March
Proc. SPIE 10120, Complex Light and Optical Forces XI, 101200Z (February 27, 2017); doi: 10.1117/12.2250595

 PDF

- + [Light fields behind microstructures: study of the Babinet-principle in the Fresnel regime](#)
Toralf Scharf, Myun-Sik Kim, Krishnaparvathy Puthankovilakam, Hans-Peter Herzig, Reinhard Voelkel
Proc. SPIE 10120, Complex Light and Optical Forces XI, 1012010 (February 27, 2017); doi: 10.1117/12.2251379

 PDF

Optical Forces

- + [Topological dynamics near exceptional points in an optomechanical system](#)
Luyao Jiang, Haitan Xu, David Mason, J. G. E. Harris
Proc. SPIE 10120, Complex Light and Optical Forces XI, 1012014 (February 27, 2017); doi: 10.1117/12.2250644

 PDF

Optical Manipulation

- + [Confining Brownian motion of single nanoparticles in an ABELtrap](#)
Maria Dienerowitz, Thomas Heitkamp, Thomas Gottschall, Jens Limpert, Michael Börsch
Proc. SPIE 10120, Complex Light and Optical Forces XI, 1012017 (February 27, 2017); doi: 10.1117/12.2250550

 PDF

- + [Optical cell sorting with multiple imaging modalities](#)
Andrew Bañas, Caro Carrisseaux, Mark Villangca, Palima Darwin, Jesper Glückstad
Proc. SPIE 10120, Complex Light and Optical Forces XI, 1012018 (February 27, 2017); doi: 10.1117/12.2254358

 PDF

- + [Light robotics: an all-optical nano- and micro-toolbox](#)
Jesper Glückstad, Mark Villangca, Darwin Palima, Andrew Banas
Proc. SPIE 10120, Complex Light and Optical Forces XI, 101201A (February 27, 2017); doi: 10.1117/12.2254738

 PDF

Poster Session

- + [Propagation of Laguerre-Gaussian vortex beams through mouse brain tissue](#)
Lingyan Shi, Lukas Lindwasser, Wubao Wang, Adrián Rodríguez-Contreras, Robert Alfano
Proc. SPIE 10120, Complex Light and Optical Forces XI, 101201B (February 27, 2017); doi: 10.1117/12.2253750

 PDF

- + [Properties of null knotted solutions of Maxwell's equations](#)
Gregory Smith, Paul Strange
Proc. SPIE 10120, Complex Light and Optical Forces XI, 101201C (February 27, 2017); doi: 10.1117/12.2260484

 PDF

[< Previous Volume](#) | [Next Volume >](#)

Site Map

[HOME](#)
[PROCEEDINGS](#)
[JOURNALS](#)
[eBOOKS](#)
[TOPIC COLLECTIONS](#)

Services

[Subscribe](#)
[Alerts](#)
[Information for Librarians](#)
[Privacy Policy](#)
[Terms Of Use](#)
[Contact Us](#)
[About the Digital Library](#)
[Help](#)

Other Resources

[SPIE.org](#)
[SPIE Membership](#)
[SPIE Career Center](#)

Information for Authors

[Books](#)
[Journals](#)
[Proceedings](#)
[Reprint Permissions](#)
[About Open Access](#)



