



Centre de Recherche sur l'Hétéro-Epitaxie et ses

Applications



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Name : [Patrice Genevet](#)

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Functions



Publications



Contracts



Supervision



Background

Functions

Activities

Head of the Metasurfaces theme

Research themes

Study of metasurfaces associated with large gap materials (in the visible) to demonstrate optical functions of modulation, focusing, refraction, polarization ... in the visible, all within the framework of the ERC Flatlight.

[Read more...](#)



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Background

Publications (18)

♦ Enhanced Second-Harmonic Generation in a SingleMicrowire Based on Localized Surface Plasmon

J. Li, H. Zhu, Z. Chen, Y. Huang, H. Zheng, Z. Tang, X. Gui, S. Wang, Z. Tang, P. Ni, and P. Genevet
Phys. Stat. Sol. B, , 1900075, (2019) - ...

♦ Hybrid MoS2-gap-mode metasurfaces photodetectors

" P Ni, A de Luna Bugallo, X Yang, V A Arreola, M F Salazar, E Strupiechonski, B Alloing, C-X Shan and P. Genevet
I Phys D: Appl Phys (2019)

P Ni, A de Luna Bugallo, V M. Arellano Arreola, M F Salazar, E Strupiechonski, V Brändli, R Sawant, B Alloing and P. Genevet
ACS Photonics, -, -, (2019) - Papier régulier

♦ **An Etching-Free Approach Toward Large-Scale Light-Emitting Metasurfaces**

G. Brière, P. Ni, S. Héron, S. Chenot, S. Vézian, V. Brändli, B. Damilano, J-Y. Duboz, M. Iwanaga and P. Genevet
Adv. Opt. Mater., , 1801271, (2019) - Papier régulier

♦ **Room Temperature Electrically Driven Ultraviolet Plasmonic Lasers**

X. Yang, P.-N Ni, P.-T. Jing, L.-G. Zhang, R.-M. Ma, C.-X. Shan, D.-Z. Shen, and P. Genevet
Adv. Opt. Mater., , 1801681, (2019) - Papier régulier

♦ **Optimization and uncertainty quantification of gradient index metasurfaces**

NIKOLAI SCHMITT, NIKLAS GEORG, GAUTHIER BRIÈRE, DIMITRIOS LOUKREZIS, SÉBASTIEN HÉRON, STÉPHANE LANTERI, CHARALAMBOS KLITIS, MARC SOREL, ULRICH RÖMER, HERBERT DE GERSEM, STÉPHANE VÉZIAN, AND PATRICE GENEVET
Opt. Mater. Express, 9, 892-910, (2019) - Papier invité

♦ **Mitigating Chromatic Dispersion with Hybrid Optical Metasurfaces**

R. Sawant, P. Bhumkar, A.Y. Zhu, P. Ni, F. Capasso, and P. Genevet
Adv. Mater., 31, 1805555, (2018) - Papier régulier

♦ **Metasurfaces: Physics and Applications**

F. Ding, P. Genevet and S.I. Bozhevolnyi
Applied Sciences, 8, 1727, (2018) - Papier invité

♦ **Outfitting Next Generation Displays with Optical Metasurfaces**

I. Kim, G. Yoon, J. Jang, P. Genevet, K. Tae Nam, and J. Rho
ACS Photonics, 5 (10), 3876–3895, (2018) - Papier invité

♦ **Modelling of free-form conformal metasurfaces**

K. Wu, P. Coquet, Q. J. Wang and P. Genevet
Nat. Commun, 9, 3494, (2018) - Papier régulier

♦ **Les Métasurfaces, des composants optiques fonctionnels ultra-minces**

P. Genevet, P. Chavel, N. Bonod
Photoniques, 87, 25, (2017) - Papier invité

♦ **Freestanding dielectric nanohole array metasurface for mid-infrared wavelength applications**

J. R. Ong, H. S. Chu, V. H. Chen, A. Y. Zhu, and P. Genevet
Opt. Lett., 42, 2639, (2017) - Papier régulier

♦ **Recent advances in planar optics: from plasmonic to dielectric metasurfaces**

P. Genevet, F. Capasso, F. Aieta, M. Khorasaninejad, and R. Devlin
Optica, 4 (1), 139-152, (2017) - Papier régulier

♦ **Anisotropic Surface Plasmon Polariton Generation Using Bimodal V-Antenna Based Metastructures**

D. Wintz, A. Ambrosio, A. Y. Zhu, P. Genevet, and F. Capasso
ACS Photonics, 4 (1), 22-27, (2017) - Papier régulier

♦ **Measurement of bound states in the continuum by a detector embedded in a photonic crystal**

R. Gansch, S. Kalchmair, P. Genevet, T. Zederbauer, H. Detz, A. M Andrews, W. Schrenk, F. Capasso, M. Lončar and G. Strasser
Light Sci Appl, 5, e16147, (2016) - Papier régulier

♦ **Controlling electromagnetic fields at boundaries of arbitrary geometries**

J.Y.H. Teo, L. J. Wong, C. Molardi, and P. Genevet
Phys. Rev. A, 94, 023820, (2016) - Papier régulier

♦ **Traditional and emerging materials for optical metasurfaces**

A. Y. Zhu, A. I. Kuznetsov, B. Luk'yanchuk, N. Engheta, and P. Genevet
Nanophotonics, DOI 10.1515/nanoph-2016-0032, , (2016) - Papier invité

♦ **Broadband mode conversion via gradient index metamaterials**

H.X. Wang, Y.D. Xu, P. Genevet, J.-H. Jiang, and H.Y. Chen
Sci Rep., 6, 24529 , (2016) - Papier régulier