# Henri J Lezec

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7089055/publications.pdf

Version: 2024-02-01

| 64 | 5,215 | 136950 | 168389 |
|---|---|---|---|
| papers | citations | 32 | 53 |
| | | h-index | g-index |

| 65 | 65 | 65 | 5387 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Fullâ€Stokes Polarimetry for Visible Light Enabled by an Allâ€Dielectric Metasurface. Advanced Photonics Research, 2022, 3, . | 3.6 | 17 |
| 2 | Trilobite-inspired neural nanophotonic light-field camera with extreme depth-of-field. Nature Communications, 2022, 13, 2130. | 12.8 | 62 |
| 3 | Arbitrary Control of Femtosecond Timescale Complex Electrical-field Transients. , 2021, , . | | 0 |
| 4 | Compact Stereo Waveguide Display Based on a Unidirectional Polarization-Multiplexed Metagrating In-Coupler. ACS Photonics, 2021, 8, 1112-1119. | 6.6 | 22 |
| 5 | Au/SiO<sub>2</sub>-Nanolaminated Plasmonic Nanoantennas as Refractive-Index-Insensitive and Transparent Surface-Enhanced Raman Spectroscopy Substrates. ACS Applied Nano Materials, 2021, 4, 3175-3184. | 5.0 | 15 |
| 6 | Broadband generation of perfect PoincarÃ© beams via dielectric spin-multiplexed metasurface. Nature Communications, 2021, 12, 2230. | 12.8 | 119 |
| 7 | Recent advances in ultraviolet nanophotonics: from plasmonics and metamaterials to metasurfaces. Nanophotonics, 2021, 10, 2283-2308. | 6.0 | 47 |
| 8 | Multifunctional metasurfaces enabled by simultaneous and independent control of phase and amplitude for orthogonal polarization states. Light: Science and Applications, 2021, 10, 107. | 16.6 | 167 |
| 9 | Towards Arbitrary Spatiotemporal Pulse Shaping. , 2021, , . | | 0 |
| 10 | Generation of Perfect Vortex Beams by Dielectric Geometric Metasurface for Visible Light. Laser and Photonics Reviews, 2021, 15, 2100390. | 8.7 | 61 |
| 11 | Broadband Detection of Multiple Spin and Orbital Angular Momenta via Dielectric Metasurface. Laser and Photonics Reviews, 2020, 14, 2000062. | 8.7 | 58 |
| 12 | Plasmonic Electronic Raman Scattering as Internal Standard for Spatial and Temporal Calibration in Quantitative Surface-Enhanced Raman Spectroscopy. Journal of Physical Chemistry Letters, 2020, 11, 9543-9551. | 4.6 | 35 |
| 13 | Nanophotonic Demultiplexer: Broadband Detection of Multiple Spin and Orbital Angular Momenta via Dielectric Metasurface (Laser Photonics Rev. 14(9)/2020). Laser and Photonics Reviews, 2020, 14, 2070052. | 8.7 | 0 |
| 14 | Photonic Spin-Multiplexing Metasurface for Switchable Spiral Phase Contrast Imaging. Nano Letters, 2020, 20, 2791-2798. | 9.1 | 180 |
| 15 | Ultra-compact visible light depolarizer based on dielectric metasurface. Applied Physics Letters, 2020, 116, 0511031-511035. | 3.3 | 9 |
| 16 | Efficient Surface Plasmon Polariton Excitation and Control over Outcoupling Mechanisms in Metalâ€“Insulatorâ€“Metal Tunneling Junctions. Advanced Science, 2020, 7, 1900291. | 11.2 | 32 |
| 17 | Low-loss metasurface optics down to the deep ultraviolet region. Light: Science and Applications, 2020, 9, 55. | 16.6 | 150 |
| 18 | Chiroptical Response of Aluminum Nanocrescents at Ultraviolet Wavelengths. Nano Letters, 2020, 20, 3656-3662. | 9.1 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Independent Amplitude Control of Arbitrary Orthogonal States of Polarization via Dielectric Metasurfaces. Physical Review Letters, 2020, 125, 267402. | 7.8 | 131 |
| 20 | Integrated Photodetection Leveraging Plasmonic Radiation Pressure. , 2020, , . | | 0 |
| 21 | Ultrafast Polarization Twisting using Chip-scale Metasurfaces. , 2020, , . | | 0 |
| 22 | Twisting Polarization of Ultrafast Pulses using Metasurfaces. , 2020, , . | | 0 |
| 23 | Vectorial Shaping of Ultrafast Pulses using Dielectric Metasurfaces. , 2020, , . | | 0 |
| 24 | Application of Electron-Beam-Excited Localized Surface Plasmon Resonance to Unveil Catalytically Active Sites on Au Nanoparticles. Microscopy and Microanalysis, 2019, 25, 1450-1451. | 0.4 | 0 |
| 25 | Revisiting the Photon-Drag Effect in Metal Films. Physical Review Letters, 2019, 123, 053903. | 7.8 | 35 |
| 26 | Nanoâ€“opto-electro-mechanical switches operated at CMOS-level voltages. Science, 2019, 366, 860-864. | 12.6 | 64 |
| 27 | Metasurface-Integrated Photonic Platform for Versatile Free-Space Beam Projection with Polarization Control. ACS Photonics, 2019, 6, 2902-2909. | 6.6 | 49 |
| 28 | Ultrathin Wetting Layer-Free Plasmonic Gold Films. ACS Photonics, 2019, 6, 2600-2606. | 6.6 | 23 |
| 29 | Ultrafast optical pulse shaping using dielectric metasurfaces. Science, 2019, 364, 890-894. | 12.6 | 143 |
| 30 | Site-selective CO disproportionation mediated by localized surface plasmon resonance excited by electron beam. Nature Materials, 2019, 18, 614-619. | 27.5 | 34 |
| 31 | Microscopic origin of the chiroptical response of optical media. Science Advances, 2019, 5, eaav8262. | 10.3 | 17 |
| 32 | Broadband Generation of Photonic Spin-Controlled Arbitrary Accelerating Light Beams in the Visible. Nano Letters, 2019, 19, 1158-1165. | 9.1 | 94 |
| 33 | Spatiotemporal Manipulation of Optical Fields with Metasurfaces. , 2019, , . | | 1 |
| 34 | Robust Extraction of Hyperbolic Metamaterial Permittivity Using Total Internal Reflection Ellipsometry. ACS Photonics, 2018, 5, 2234-2242. | 6.6 | 25 |
| 35 | Surface plasmon polariton laser based on a metallic trench Fabry-Perot resonator. Science Advances, 2017, 3, e1700909. | 10.3 | 70 |
| 36 | Subradiant Dipolar Interactions in Plasmonic Nanoring Resonator Array for Integrated Label-Free Biosensing. ACS Sensors, 2017, 2, 1796-1804. | 7.8 | 45 |

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|---|---|---|---|
| 37 | Aperiodic nanoplasmonic devices for directional colour filtering and sensing. Nature Communications, 2017, 8, 1347. | 12.8 | 24 |
| 38 | Measuring Gas Adsorption on Individual Facets of a Nanoparticle by a Surface Plasmon Nanoprobe. Microscopy and Microanalysis, 2015, 21, 2053-2054. | 0.4 | 0 |
| 39 | Metal-dielectric-metal resonators with deep subwavelength dielectric layers increase the near-field SEIRA enhancement. Optics Express, 2015, 23, 25912. | 3.4 | 25 |
| 40 | High-Contrast Nanoparticle Sensing using a Hyperbolic Metamaterial. , 2015, , . | | 1 |
| 41 | Flat lens criterion by small-angle phase. Optics Express, 2014, 22, 29340. | 3.4 | 5 |
| 42 | Nanoscale Imaging of Photocurrent and Efficiency in CdTe Solar Cells. ACS Nano, 2014, 8, 11883-11890. | 14.6 | 60 |
| 43 | Miniature all-solid-state heterostructure nanowire Li-ion batteries as a tool for engineering and structural diagnostics of nanoscale electrochemical processes. Nanoscale, 2014, 6, 11756-11768. | 5.6 | 19 |
| 44 | Visible-frequency asymmetric transmission devices incorporating a hyperbolic metamaterial. Nature Communications, 2014, 5, 4141. | 12.8 | 120 |
| 45 | Design considerations for enhancing absorption in semiconductors on metals through surface plasmon polaritons. Physical Chemistry Chemical Physics, 2014, 16, 6084-6091. | 2.8 | 9 |
| 46 | All-angle negative refraction and active flat lensing of ultraviolet light. Nature, 2013, 497, 470-474. | 27.8 | 277 |
| 47 | Revisiting the Balazs thought experiment in the case of a left-handed material: electromagnetic-pulse-induced displacement of a dispersive, dissipative negative-index slab. Optics Express, 2012, 20, 10138. | 3.4 | 14 |
| 48 | Electrolyte Stability Determines Scaling Limits for Solid-State 3D Li Ion Batteries. Nano Letters, 2012, 12, 505-511. | 9.1 | 121 |
| 49 | An Efficient Large-Area Grating Coupler for Surface Plasmon Polaritons. Plasmonics, 2012, 7, 269-277. | 3.4 | 54 |
| 50 | An Integrated Electrochromic Nanoplasmonic Optical Switch. Nano Letters, 2011, 11, 2774-2778. | 9.1 | 41 |
| 51 | Electron Vortex Beams with High Quanta of Orbital Angular Momentum. Science, 2011, 331, 192-195. | 12.6 | 492 |
| 52 | Revisiting the Balazs thought experiment in the presence of loss: electromagnetic-pulse-induced displacement of a positive-index slab having arbitrary complex permittivity and permeability. Applied Physics A: Materials Science and Processing, 2011, 105, 267-281. | 2.3 | 6 |
| 53 | Electrooptic Modulation in Thin Film Barium Titanate Plasmonic Interferometers. Nano Letters, 2008, 8, 4048-4052. | 9.1 | 212 |
| 54 | Universal optical transmission features in periodic and quasiperiodic hole arrays. Optics Express, 2008, 16, 9222. | 3.4 | 129 |

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|---|---|---|---|
| 55 | Negative Refraction at Visible Frequencies. Science, 2007, 316, 430-432. | 12.6 | 545 |
| 56 | Plasmonic Modes of Annular Nanoresonators Imaged by Spectrally Resolved Cathodoluminescence. Nano Letters, 2007, 7, 3612-3617. | 9.1 | 67 |
| 57 | All-optical modulation by plasmonic excitation of CdSe quantum dots. Nature Photonics, 2007, 1, 402-406. | 31.4 | 514 |
| 58 | Diffracted evanescent wave model for enhanced and suppressed optical transmission through subwavelength hole arrays. Optics Express, 2004, 12, 3629. | 3.4 | 582 |
| 59 | Nanophotonics. Optics and Photonics News, 2004, 15, 29. | 0.5 | 1 |
| 60 | Enhanced Optical Transmission of a Single Subwavelength Aperture. Optics and Photonics News, 2001, 12, 39. | 0.5 | 2 |
| 61 | Fabrication of mesoscopic devices from graphite microdisks. Applied Physics Letters, 2001, 79, 2474-2476. | 3.3 | 48 |
| 62 | Beyond the Bethe Limit: Tunable Enhanced Light Transmission Through a Single Sub-Wavelength Aperture. Advanced Materials, 1999, 11, 860-862. | 21.0 | 129 |
| 63 | Observation of 77 K Staircase I-V Characteristics in 2DEG's Irradiated by a Focused Ion Beam. Japanese Journal of Applied Physics, 1995, 34, 4426-4428. | 1.5 | 2 |
| 64 | Focused-Ion-Beam Surface Modification for Selective Growth of InP Wires and GaAs. Japanese Journal of Applied Physics, 1993, 32, 6251-6257. | 1.5 | 9 |