

# Henri J Lezec

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

5,215  
citations

136950

32  
h-index

168389

53  
g-index

65  
all docs

65  
docs citations

65  
times ranked

5387  
citing authors

#	ARTICLE	IF	CITATIONS
1	Diffracted evanescent wave model for enhanced and suppressed optical transmission through subwavelength hole arrays. <i>Optics Express</i> , 2004, 12, 3629.	3.4	582
2	Negative Refraction at Visible Frequencies. <i>Science</i> , 2007, 316, 430-432.	12.6	545
3	All-optical modulation by plasmonic excitation of CdSe quantum dots. <i>Nature Photonics</i> , 2007, 1, 402-406.	31.4	514
4	Electron Vortex Beams with High Quanta of Orbital Angular Momentum. <i>Science</i> , 2011, 331, 192-195.	12.6	492
5	All-angle negative refraction and active flat lensing of ultraviolet light. <i>Nature</i> , 2013, 497, 470-474.	27.8	277
6	Electrooptic Modulation in Thin Film Barium Titanate Plasmonic Interferometers. <i>Nano Letters</i> , 2008, 8, 4048-4052.	9.1	212
7	Photonic Spin-Multiplexing Metasurface for Switchable Spiral Phase Contrast Imaging. <i>Nano Letters</i> , 2020, 20, 2791-2798.	9.1	180
8	Multifunctional metasurfaces enabled by simultaneous and independent control of phase and amplitude for orthogonal polarization states. <i>Light: Science and Applications</i> , 2021, 10, 107.	16.6	167
9	Low-loss metasurface optics down to the deep ultraviolet region. <i>Light: Science and Applications</i> , 2020, 9, 55.	16.6	150
10	Ultrafast optical pulse shaping using dielectric metasurfaces. <i>Science</i> , 2019, 364, 890-894.	12.6	143
11	Independent Amplitude Control of Arbitrary Orthogonal States of Polarization via Dielectric Metasurfaces. <i>Physical Review Letters</i> , 2020, 125, 267402.	7.8	131
12	Beyond the Bethe Limit: Tunable Enhanced Light Transmission Through a Single Sub-Wavelength Aperture. <i>Advanced Materials</i> , 1999, 11, 860-862.	21.0	129
13	Universal optical transmission features in periodic and quasiperiodic hole arrays. <i>Optics Express</i> , 2008, 16, 9222.	3.4	129
14	Electrolyte Stability Determines Scaling Limits for Solid-State 3D Li Ion Batteries. <i>Nano Letters</i> , 2012, 12, 505-511.	9.1	121
15	Visible-frequency asymmetric transmission devices incorporating a hyperbolic metamaterial. <i>Nature Communications</i> , 2014, 5, 4141.	12.8	120
16	Broadband generation of perfect Poincaré beams via dielectric spin-multiplexed metasurface. <i>Nature Communications</i> , 2021, 12, 2230.	12.8	119
17	Broadband Generation of Photonic Spin-Controlled Arbitrary Accelerating Light Beams in the Visible. <i>Nano Letters</i> , 2019, 19, 1158-1165.	9.1	94
18	Surface plasmon polariton laser based on a metallic trench Fabry-Perot resonator. <i>Science Advances</i> , 2017, 3, e1700909.	10.3	70

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19	Plasmonic Modes of Annular Nanoresonators Imaged by Spectrally Resolved Cathodoluminescence. <i>Nano Letters</i> , 2007, 7, 3612-3617.	9.1	67
20	Nano-“opto-electro-mechanical switches operated at CMOS-level voltages. <i>Science</i> , 2019, 366, 860-864.	12.6	64
21	Trilobite-inspired neural nanophotonic light-field camera with extreme depth-of-field. <i>Nature Communications</i> , 2022, 13, 2130.	12.8	62
22	Generation of Perfect Vortex Beams by Dielectric Geometric Metasurface for Visible Light. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100390.	8.7	61
23	Nanoscale Imaging of Photocurrent and Efficiency in CdTe Solar Cells. <i>ACS Nano</i> , 2014, 8, 11883-11890.	14.6	60
24	Broadband Detection of Multiple Spin and Orbital Angular Momenta via Dielectric Metasurface. <i>Laser and Photonics Reviews</i> , 2020, 14, 2000062.	8.7	58
25	An Efficient Large-Area Grating Coupler for Surface Plasmon Polaritons. <i>Plasmonics</i> , 2012, 7, 269-277.	3.4	54
26	Metasurface-Integrated Photonic Platform for Versatile Free-Space Beam Projection with Polarization Control. <i>ACS Photonics</i> , 2019, 6, 2902-2909.	6.6	49
27	Fabrication of mesoscopic devices from graphite microdisks. <i>Applied Physics Letters</i> , 2001, 79, 2474-2476.	3.3	48
28	Recent advances in ultraviolet nanophotonics: from plasmonics and metamaterials to metasurfaces. <i>Nanophotonics</i> , 2021, 10, 2283-2308.	6.0	47
29	Subradiant Dipolar Interactions in Plasmonic Nanoring Resonator Array for Integrated Label-Free Biosensing. <i>ACS Sensors</i> , 2017, 2, 1796-1804.	7.8	45
30	An Integrated Electrochromic Nanoplasmonic Optical Switch. <i>Nano Letters</i> , 2011, 11, 2774-2778.	9.1	41
31	Revisiting the Photon-Drag Effect in Metal Films. <i>Physical Review Letters</i> , 2019, 123, 053903.	7.8	35
32	Plasmonic Electronic Raman Scattering as Internal Standard for Spatial and Temporal Calibration in Quantitative Surface-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9543-9551.	4.6	35
33	Site-selective CO disproportionation mediated by localized surface plasmon resonance excited by electron beam. <i>Nature Materials</i> , 2019, 18, 614-619.	27.5	34
34	Efficient Surface Plasmon Polariton Excitation and Control over Outcoupling Mechanisms in Metal-“Insulator-“Metal Tunneling Junctions. <i>Advanced Science</i> , 2020, 7, 1900291.	11.2	32
35	Metal-dielectric-metal resonators with deep subwavelength dielectric layers increase the near-field SEIRA enhancement. <i>Optics Express</i> , 2015, 23, 25912.	3.4	25
36	Robust Extraction of Hyperbolic Metamaterial Permittivity Using Total Internal Reflection Ellipsometry. <i>ACS Photonics</i> , 2018, 5, 2234-2242.	6.6	25

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37	Aperiodic nanoplasmonic devices for directional colour filtering and sensing. Nature Communications, 2017, 8, 1347.	12.8	24
38	Ultrathin Wetting Layer-Free Plasmonic Gold Films. ACS Photonics, 2019, 6, 2600-2606.	6.6	23
39	Compact Stereo Waveguide Display Based on a Unidirectional Polarization-Multiplexed Metagrating In-Coupler. ACS Photonics, 2021, 8, 1112-1119.	6.6	22
40	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
41	Microscopic origin of the chiroptical response of optical media. Science Advances, 2019, 5, eaav8262.	10.3	17
42	Full-Stokes Polarimetry for Visible Light Enabled by an All-Dielectric Metasurface. Advanced Photonics Research, 2022, 3, .	3.6	17
43	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
44	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
45	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
46	Design considerations for enhancing absorption in semiconductors on metals through surface plasmon polaritons. Physical Chemistry Chemical Physics, 2014, 16, 6084-6091.	2.8	9
47	Ultra-compact visible light depolarizer based on dielectric metasurface. Applied Physics Letters, 2020, 116, 0511031-511035.	3.3	9
48	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
49	Flat lens criterion by small-angle phase. Optics Express, 2014, 22, 29340.	3.4	5
50	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
51	Enhanced Optical Transmission of a Single Subwavelength Aperture. Optics and Photonics News, 2001, 12, 39.	0.5	2
52	Chiroptical Response of Aluminum Nanocrescents at Ultraviolet Wavelengths. Nano Letters, 2020, 20, 3656-3662.	9.1	2
53	Nanophotonics. Optics and Photonics News, 2004, 15, 29.	0.5	1
54	High-Contrast Nanoparticle Sensing using a Hyperbolic Metamaterial. , 2015, , .		1

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55	Spatiotemporal Manipulation of Optical Fields with Metasurfaces. , 2019, , .		1
56	Measuring Gas Adsorption on Individual Facets of a Nanoparticle by a Surface Plasmon Nanoprobe. Microscopy and Microanalysis, 2015, 21, 2053-2054.	0.4	0
57	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
58	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
59	Arbitrary Control of Femtosecond Timescale Complex Electrical-field Transients. , 2021, , .		0
60	Towards Arbitrary Spatiotemporal Pulse Shaping. , 2021, , .		0
61	Integrated Photodetection Leveraging Plasmonic Radiation Pressure. , 2020, , .		0
62	Ultrafast Polarization Twisting using Chip-scale Metasurfaces. , 2020, , .		0
63	Twisting Polarization of Ultrafast Pulses using Metasurfaces. , 2020, , .		0
64	Vectorial Shaping of Ultrafast Pulses using Dielectric Metasurfaces. , 2020, , .		0