

Henri J Lezec

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

5,215
citations

136740

32
h-index

168136

53
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65
all docs

65
docs citations

65
times ranked

5387
citing authors

#	ARTICLE	IF	CITATIONS
1	Full-Stokes Polarimetry for Visible Light Enabled by an All-Dielectric Metasurface. <i>Advanced Photonics Research</i> , 2022, 3, .	1.7	17
2	Trilobite-inspired neural nanophotonic light-field camera with extreme depth-of-field. <i>Nature Communications</i> , 2022, 13, 2130.	5.8	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. <i>ACS Photonics</i> , 2021, 8, 1112-1119.	3.2	22
5	Au/SiO ₂ -Nanolaminated Plasmonic Nanoantennas as Refractive-Index-Insensitive and Transparent Surface-Enhanced Raman Spectroscopy Substrates. <i>ACS Applied Nano Materials</i> , 2021, 4, 3175-3184.	2.4	15
6	Broadband generation of perfect Poincaré beams via dielectric spin-multiplexed metasurface. <i>Nature Communications</i> , 2021, 12, 2230.	5.8	119
7	Recent advances in ultraviolet nanophotonics: from plasmonics and metamaterials to metasurfaces. <i>Nanophotonics</i> , 2021, 10, 2283-2308.	2.9	47
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.	7.7	167
9	Towards Arbitrary Spatiotemporal Pulse Shaping. , 2021, , .		0
10	Generation of Perfect Vortex Beams by Dielectric Geometric Metasurface for Visible Light. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100390.	4.4	61
11	Broadband Detection of Multiple Spin and Orbital Angular Momenta via Dielectric Metasurface. <i>Laser and Photonics Reviews</i> , 2020, 14, 2000062.	4.4	58
12	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.	2.1	35
13	Nanophotonic Demultiplexer: Broadband Detection of Multiple Spin and Orbital Angular Momenta via Dielectric Metasurface (<i>Laser Photonics Rev.</i> 14(9)/2020). <i>Laser and Photonics Reviews</i> , 2020, 14, 2070052.	4.4	0
14	Photonic Spin-Multiplexing Metasurface for Switchable Spiral Phase Contrast Imaging. <i>Nano Letters</i> , 2020, 20, 2791-2798.	4.5	180
15	Ultra-compact visible light depolarizer based on dielectric metasurface. <i>Applied Physics Letters</i> , 2020, 116, 0511031-511035.	1.5	9
16	Efficient Surface Plasmon Polariton Excitation and Control over Outcoupling Mechanisms in Metal-Insulator-Metal Tunneling Junctions. <i>Advanced Science</i> , 2020, 7, 1900291.	5.6	32
17	Low-loss metasurface optics down to the deep ultraviolet region. <i>Light: Science and Applications</i> , 2020, 9, 55.	7.7	150
18	Chiroptical Response of Aluminum Nanocrescents at Ultraviolet Wavelengths. <i>Nano Letters</i> , 2020, 20, 3656-3662.	4.5	2

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19	Independent Amplitude Control of Arbitrary Orthogonal States of Polarization via Dielectric Metasurfaces. <i>Physical Review Letters</i> , 2020, 125, 267402.	2.9	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. <i>Microscopy and Microanalysis</i> , 2019, 25, 1450-1451.	0.2	0
25	Revisiting the Photon-Drag Effect in Metal Films. <i>Physical Review Letters</i> , 2019, 123, 053903.	2.9	35
26	Nano-“opto-electro-mechanical switches operated at CMOS-level voltages. <i>Science</i> , 2019, 366, 860-864.	6.0	64
27	Metasurface-Integrated Photonic Platform for Versatile Free-Space Beam Projection with Polarization Control. <i>ACS Photonics</i> , 2019, 6, 2902-2909.	3.2	49
28	Ultrathin Wetting Layer-Free Plasmonic Gold Films. <i>ACS Photonics</i> , 2019, 6, 2600-2606.	3.2	23
29	Ultrafast optical pulse shaping using dielectric metasurfaces. <i>Science</i> , 2019, 364, 890-894.	6.0	143
30	Site-selective CO disproportionation mediated by localized surface plasmon resonance excited by electron beam. <i>Nature Materials</i> , 2019, 18, 614-619.	13.3	34
31	Microscopic origin of the chiroptical response of optical media. <i>Science Advances</i> , 2019, 5, eaav8262.	4.7	17
32	Broadband Generation of Photonic Spin-Controlled Arbitrary Accelerating Light Beams in the Visible. <i>Nano Letters</i> , 2019, 19, 1158-1165.	4.5	94
33	Spatiotemporal Manipulation of Optical Fields with Metasurfaces. , 2019, , .		1
34	Robust Extraction of Hyperbolic Metamaterial Permittivity Using Total Internal Reflection Ellipsometry. <i>ACS Photonics</i> , 2018, 5, 2234-2242.	3.2	25
35	Surface plasmon polariton laser based on a metallic trench Fabry-Perot resonator. <i>Science Advances</i> , 2017, 3, e1700909.	4.7	70
36	Subradiant Dipolar Interactions in Plasmonic Nanoring Resonator Array for Integrated Label-Free Biosensing. <i>ACS Sensors</i> , 2017, 2, 1796-1804.	4.0	45

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37	Aperiodic nanoplasmonic devices for directional colour filtering and sensing. Nature Communications, 2017, 8, 1347.	5.8	24
38	Measuring Gas Adsorption on Individual Facets of a Nanoparticle by a Surface Plasmon Nanoprobe. Microscopy and Microanalysis, 2015, 21, 2053-2054.	0.2	0
39	Metal-dielectric-metal resonators with deep subwavelength dielectric layers increase the near-field SEIRA enhancement. Optics Express, 2015, 23, 25912.	1.7	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.	1.7	5
42	Nanoscale Imaging of Photocurrent and Efficiency in CdTe Solar Cells. ACS Nano, 2014, 8, 11883-11890.	7.3	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.	2.8	19
44	Visible-frequency asymmetric transmission devices incorporating a hyperbolic metamaterial. Nature Communications, 2014, 5, 4141.	5.8	120
45	Design considerations for enhancing absorption in semiconductors on metals through surface plasmon polaritons. Physical Chemistry Chemical Physics, 2014, 16, 6084-6091.	1.3	9
46	All-angle negative refraction and active flat lensing of ultraviolet light. Nature, 2013, 497, 470-474.	13.7	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.	1.7	14
48	Electrolyte Stability Determines Scaling Limits for Solid-State 3D Li Ion Batteries. Nano Letters, 2012, 12, 505-511.	4.5	121
49	An Efficient Large-Area Grating Coupler for Surface Plasmon Polaritons. Plasmonics, 2012, 7, 269-277.	1.8	54
50	An Integrated Electrochromic Nanoplasmonic Optical Switch. Nano Letters, 2011, 11, 2774-2778.	4.5	41
51	Electron Vortex Beams with High Quanta of Orbital Angular Momentum. Science, 2011, 331, 192-195.	6.0	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.	1.1	6
53	Electrooptic Modulation in Thin Film Barium Titanate Plasmonic Interferometers. Nano Letters, 2008, 8, 4048-4052.	4.5	212
54	Universal optical transmission features in periodic and quasiperiodic hole arrays. Optics Express, 2008, 16, 9222.	1.7	129

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55	Negative Refraction at Visible Frequencies. <i>Science</i> , 2007, 316, 430-432.	6.0	545
56	Plasmonic Modes of Annular Nanoresonators Imaged by Spectrally Resolved Cathodoluminescence. <i>Nano Letters</i> , 2007, 7, 3612-3617.	4.5	67
57	All-optical modulation by plasmonic excitation of CdSe quantum dots. <i>Nature Photonics</i> , 2007, 1, 402-406.	15.6	514
58	Diffraction evanescent wave model for enhanced and suppressed optical transmission through subwavelength hole arrays. <i>Optics Express</i> , 2004, 12, 3629.	1.7	582
59	Nanophotonics. <i>Optics and Photonics News</i> , 2004, 15, 29.	0.4	1
60	Enhanced Optical Transmission of a Single Subwavelength Aperture. <i>Optics and Photonics News</i> , 2001, 12, 39.	0.4	2
61	Fabrication of mesoscopic devices from graphite microdisks. <i>Applied Physics Letters</i> , 2001, 79, 2474-2476.	1.5	48
62	Beyond the Bethe Limit: Tunable Enhanced Light Transmission Through a Single Sub-Wavelength Aperture. <i>Advanced Materials</i> , 1999, 11, 860-862.	11.1	129
63	Observation of 77 K Staircase I-V Characteristics in 2DEG's Irradiated by a Focused Ion Beam. <i>Japanese Journal of Applied Physics</i> , 1995, 34, 4426-4428.	0.8	2
64	Focused-Ion-Beam Surface Modification for Selective Growth of InP Wires and GaAs. <i>Japanese Journal of Applied Physics</i> , 1993, 32, 6251-6257.	0.8	9