

Jason Valentine

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11410049/publications.pdf>

Version: 2024-02-01

30
papers

9,374
citations

304743

22
h-index

580821

25
g-index

30
all docs

30
docs citations

30
times ranked

8431
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional optical metamaterial with a negative refractive index. <i>Nature</i> , 2008, 455, 376-379.	27.8	2,007
2	An optical cloak made of dielectrics. <i>Nature Materials</i> , 2009, 8, 568-571.	27.5	1,263
3	Dielectric Meta-Reflectarray for Broadband Linear Polarization Conversion and Optical Vortex Generation. <i>Nano Letters</i> , 2014, 14, 1394-1399.	9.1	877
4	All-dielectric metasurface analogue of electromagnetically induced transparency. <i>Nature Communications</i> , 2014, 5, 5753.	12.8	823
5	Metamaterial Perfect Absorber Based Hot Electron Photodetection. <i>Nano Letters</i> , 2014, 14, 3510-3514.	9.1	591
6	Realization of an all-dielectric zero-index optical metamaterial. <i>Nature Photonics</i> , 2013, 7, 791-795.	31.4	589
7	Circularly polarized light detection with hot electrons in chiral plasmonic metamaterials. <i>Nature Communications</i> , 2015, 6, 8379.	12.8	539
8	Nonlinear Fano-Resonant Dielectric Metasurfaces. <i>Nano Letters</i> , 2015, 15, 7388-7393.	9.1	474
9	Flat optics for image differentiation. <i>Nature Photonics</i> , 2020, 14, 316-323.	31.4	311
10	Large-Scale All-Dielectric Metamaterial Perfect Reflectors. <i>ACS Photonics</i> , 2015, 2, 692-698.	6.6	282
11	Plasmonic Luneburg and Eaton lenses. <i>Nature Nanotechnology</i> , 2011, 6, 151-155.	31.5	274
12	Experimental demonstration of a broadband all-dielectric metamaterial perfect reflector. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	201
13	Hot Electron-Based Near-Infrared Photodetection Using Bilayer MoS ₂ . <i>Nano Letters</i> , 2015, 15, 7440-7444.	9.1	199
14	Multilayer Noninteracting Dielectric Metasurfaces for Multiwavelength Metaoptics. <i>Nano Letters</i> , 2018, 18, 7529-7537.	9.1	187
15	A Carpet Cloak for Visible Light. <i>Nano Letters</i> , 2011, 11, 2825-2828.	9.1	161
16	Multifunctional metaoptics based on bilayer metasurfaces. <i>Light: Science and Applications</i> , 2019, 8, 80.	16.6	130
17	Roadmap on optical metamaterials. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 093005.	2.2	118
18	Dynamic transmission control based on all-dielectric Huygens metasurfaces. <i>Optica</i> , 2018, 5, 787.	9.3	116

#	ARTICLE	IF	CITATIONS
19	An Optical "Janus" Device for Integrated Photonics. <i>Advanced Materials</i> , 2010, 22, 2561-2564.	21.0	75
20	Electric and Magnetic Response in Dielectric Dark States for Low Loss Subwavelength Optical Meta Atoms. <i>Advanced Optical Materials</i> , 2015, 3, 1431-1438.	7.3	45
21	Near-Unity and Narrowband Thermal Emissivity in Balanced Dielectric Metasurfaces. <i>Advanced Optical Materials</i> , 2020, 8, 1901470.	7.3	37
22	Development of Bulk Optical Negative Index Fishnet Metamaterials: Achieving a Low-Loss and Broadband Response Through Coupling. <i>Proceedings of the IEEE</i> , 2011, 99, 1682-1690.	21.3	25
23	Metasurface polarization splitter. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160072.	3.4	23
24	Incoherent Optoelectronic Differentiation Based on Optimized Multilayer Films. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	11
25	All-Dielectric Meta-Optics for High-Efficiency Independent Amplitude and Phase Manipulation. <i>Advanced Photonics Research</i> , 2022, 3, .	3.6	10
26	Circularly Polarized Light Detection with Hot Electrons in Chiral Plasmonic Metamaterials. , 2015, , .		4
27	All-Dielectric Compound Metaoptics. , 2019, , .		2
28	All-dielectric metasurfaces. , 2015, , .		0
29	Designing Plasmonic Hot Carrier Devices for Uncooled Infrared Photodetection. , 2020, , .		0
30	Transforming Integrated Optics. , 2010, , .		0