

Jason Valentine

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

9,374
citations

304743

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h-index

580821

25
g-index

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all docs

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docs citations

30
times ranked

8431
citing authors

#	ARTICLE	IF	CITATIONS
1	All-Dielectric Meta-Optics for High-Efficiency Independent Amplitude and Phase Manipulation. <i>Advanced Photonics Research</i> , 2022, 3, .	3.6	10
2	Incoherent Optoelectronic Differentiation Based on Optimized Multilayer Films. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	11
3	Near-Unity and Narrowband Thermal Emissivity in Balanced Dielectric Metasurfaces. <i>Advanced Optical Materials</i> , 2020, 8, 1901470.	7.3	37
4	Designing Plasmonic Hot Carrier Devices for Uncooled Infrared Photodetection. , 2020, , .		0
5	Flat optics for image differentiation. <i>Nature Photonics</i> , 2020, 14, 316-323.	31.4	311
6	Multifunctional metaoptics based on bilayer metasurfaces. <i>Light: Science and Applications</i> , 2019, 8, 80.	16.6	130
7	All-Dielectric Compound Metaoptics. , 2019, , .		2
8	Multilayer Noninteracting Dielectric Metasurfaces for Multiwavelength Metaoptics. <i>Nano Letters</i> , 2018, 18, 7529-7537.	9.1	187
9	Dynamic transmission control based on all-dielectric Huygens metasurfaces. <i>Optica</i> , 2018, 5, 787.	9.3	116
10	Metasurface polarization splitter. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160072.	3.4	23
11	Roadmap on optical metamaterials. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 093005.	2.2	118
12	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
13	All-dielectric metasurfaces. , 2015, , .		0
14	Large-Scale All-Dielectric Metamaterial Perfect Reflectors. <i>ACS Photonics</i> , 2015, 2, 692-698.	6.6	282
15	Circularly polarized light detection with hot electrons in chiral plasmonic metamaterials. <i>Nature Communications</i> , 2015, 6, 8379.	12.8	539
16	Hot Electron-Based Near-Infrared Photodetection Using Bilayer MoS ₂ . <i>Nano Letters</i> , 2015, 15, 7440-7444.	9.1	199
17	Nonlinear Fano-Resonant Dielectric Metasurfaces. <i>Nano Letters</i> , 2015, 15, 7388-7393.	9.1	474
18	Circularly Polarized Light Detection with Hot Electrons in Chiral Plasmonic Metamaterials. , 2015, , .		4

#	ARTICLE	IF	CITATIONS
19	All-dielectric metasurface analogue of electromagnetically induced transparency. Nature Communications, 2014, 5, 5753.	12.8	823
20	Experimental demonstration of a broadband all-dielectric metamaterial perfect reflector. Applied Physics Letters, 2014, 104, .	3.3	201
21	Metamaterial Perfect Absorber Based Hot Electron Photodetection. Nano Letters, 2014, 14, 3510-3514.	9.1	591
22	Dielectric Meta-Reflectarray for Broadband Linear Polarization Conversion and Optical Vortex Generation. Nano Letters, 2014, 14, 1394-1399.	9.1	877
23	Realization of an all-dielectric zero-index optical metamaterial. Nature Photonics, 2013, 7, 791-795.	31.4	589
24	Plasmonic Luneburg and Eaton lenses. Nature Nanotechnology, 2011, 6, 151-155.	31.5	274
25	Development of Bulk Optical Negative Index Fishnet Metamaterials: Achieving a Low-Loss and Broadband Response Through Coupling. Proceedings of the IEEE, 2011, 99, 1682-1690.	21.3	25
26	A Carpet Cloak for Visible Light. Nano Letters, 2011, 11, 2825-2828.	9.1	161
27	An Optical "Janus" Device for Integrated Photonics. Advanced Materials, 2010, 22, 2561-2564.	21.0	75
28	Transforming Integrated Optics. , 2010, , .		0
29	An optical cloak made of dielectrics. Nature Materials, 2009, 8, 568-571.	27.5	1,263
30	Three-dimensional optical metamaterial with a negative refractive index. Nature, 2008, 455, 376-379.	27.8	2,007