

Nathaniel Kinsey

List of Publications by Year in descending order

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49
papers

3,415
citations

257450

24
h-index

289244

40
g-index

51
all docs

51
docs citations

51
times ranked

3998
citing authors

#	ARTICLE	IF	CITATIONS
1	Refractory Plasmonics with Titanium Nitride: Broadband Metamaterial Absorber. <i>Advanced Materials</i> , 2014, 26, 7959-7965.	21.0	603
2	Enhanced Nonlinear Refractive Index in μ -Near-Zero Materials. <i>Physical Review Letters</i> , 2016, 116, 233901.	7.8	348
3	Low-loss plasmon-assisted electro-optic modulator. <i>Nature</i> , 2018, 556, 483-486.	27.8	312
4	Epsilon-near-zero Al-doped ZnO for ultrafast switching at telecom wavelengths. <i>Optica</i> , 2015, 2, 616.	9.3	280
5	Roadmap on plasmonics. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 043001.	2.2	240
6	Near-zero-index materials for photonics. <i>Nature Reviews Materials</i> , 2019, 4, 742-760.	48.7	234
7	Towards CMOS-compatible nanophotonics: Ultra-compact modulators using alternative plasmonic materials. <i>Optics Express</i> , 2013, 21, 27326.	3.4	125
8	Roadmap on optical metamaterials. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 093005.	2.2	118
9	Examining nanophotonics for integrated hybrid systems: a review of plasmonic interconnects and modulators using traditional and alternative materials [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, 121.	2.1	111
10	Optical Properties of Plasmonic Ultrathin TiN Films. <i>Advanced Optical Materials</i> , 2017, 5, 1700065.	7.3	95
11	Controlling hybrid nonlinearities in transparent conducting oxides via two-colour excitation. <i>Nature Communications</i> , 2017, 8, 15829.	12.8	91
12	High-Performance Doped Silver Films: Overcoming Fundamental Material Limits for Nanophotonic Applications. <i>Advanced Materials</i> , 2017, 29, 1605177.	21.0	90
13	Experimental demonstration of titanium nitride plasmonic interconnects. <i>Optics Express</i> , 2014, 22, 12238.	3.4	76
14	Adiabatic frequency shifting in epsilon-near-zero materials: the role of group velocity. <i>Optica</i> , 2020, 7, 226.	9.3	76
15	Controlling the Plasmonic Properties of Ultrathin TiN Films at the Atomic Level. <i>ACS Photonics</i> , 2018, 5, 2816-2824.	6.6	74
16	Nonlinear epsilon-near-zero materials explained: opinion. <i>Optical Materials Express</i> , 2019, 9, 2793.	3.0	60
17	Interfacial Self-Assembly of Colloidal Nanoparticles in Dual-Droplet Inkjet Printing. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701561.	3.7	55
18	Effective third-order nonlinearities in metallic refractory titanium nitride thin films. <i>Optical Materials Express</i> , 2015, 5, 2395.	3.0	50

#	ARTICLE	IF	CITATIONS
19	Fast and Slow Nonlinearities in Epsilon-Near-Zero Materials. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000291.	8.7	44
20	Absorptive loss and band non-parabolicity as a physical origin of large nonlinearity in epsilon-near-zero materials. <i>Optical Materials Express</i> , 2020, 10, 1545.	3.0	40
21	On-Chip Hybrid Photonic-Plasmonic Waveguides with Ultrathin Titanium Nitride Films. <i>ACS Photonics</i> , 2018, 5, 4423-4431.	6.6	36
22	Dynamic nanophotonics [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 95.	2.1	30
23	Adiabatically Tapered Hyperbolic Metamaterials for Dispersion Control of High- k Waves. <i>Nano Letters</i> , 2015, 15, 498-505.	9.1	26
24	Gyroidal titanium nitride as nonmetallic metamaterial. <i>Optical Materials Express</i> , 2015, 5, 1316.	3.0	25
25	Reliable modeling of ultrathin alternative plasmonic materials using spectroscopic ellipsometry [Invited]. <i>Optical Materials Express</i> , 2019, 9, 760.	3.0	19
26	Alternative Plasmonic Materials. <i>Handbook of Surface Science</i> , 2014, 4, 189-221.	0.3	15
27	Angled physical vapor deposition techniques for non-conformal thin films and three-dimensional structures. <i>MRS Communications</i> , 2016, 6, 17-22.	1.8	12
28	Plasmonic titanium nitride via atomic layer deposition: A low-temperature route. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	12
29	Doppler-Shift Emulation Using Highly Time-Refracting TCO Layer. , 2016, , .		12
30	Nonlinearities and carrier dynamics in refractory plasmonic TiN thin films. <i>Optical Materials Express</i> , 2019, 9, 3911.	3.0	12
31	A Platform for Complementary Metal-Oxide-Semiconductor Compatible Plasmonics: High Plasmonic Quality Titanium Nitride Thin Films on Si (001) with a MgO Interlayer. <i>Advanced Photonics Research</i> , 2021, 2, 2000210.	3.6	8
32	Al:ZnO as a platform for near-zero-index photonics: enhancing the doping efficiency of atomic layer deposition. <i>Optical Materials Express</i> , 2020, 10, 3060.	3.0	8
33	Deterministic modeling of hybrid nonlinear effects in epsilon-near-zero thin films. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	8
34	Optimizing epsilon-near-zero based plasmon assisted modulators through surface-to-volume ratio. <i>Optics Express</i> , 2022, 30, 19781.	3.4	6
35	Plasmonic colors in titanium nitride for robust and covert security features. <i>Optics Express</i> , 2021, 29, 19586.	3.4	5
36	Plasmonic Interconnects Using Zirconium Nitride. , 2016, , .		5

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37	High-Quality Plasmonic Materials TiN and ZnO:Al by Atomic Layer Deposition. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100227.	2.4	4
38	Temporal dynamics of strongly coupled epsilon near-zero plasmonic systems. Applied Physics Letters, 2021, 119, .	3.3	3
39	Plasmonic modulator using CMOS-compatible material platform. , 2014, , .		2
40	Developing momentum in vanishing index photonics. Light: Science and Applications, 2022, 11, .	16.6	2
41	CMOS Compatible Ultra-Compact Modulator. , 2014, , .		1
42	Emerging materials for tailorable nanophotonic devices. , 2018, , .		1
43	Air-Droplet Interfaces: Interfacial Self-Assembly of Colloidal Nanoparticles in Dual-Droplet Inkjet Printing (Adv. Mater. Interfaces 10/2018). Advanced Materials Interfaces, 2018, 5, 1870047.	3.7	1
44	Optical Nonlinearities in Transparent Conducting Oxides – The Role of Loss. , 2019, , .		1
45	Epsilon Near-Zero Nonlinear Optical Measurements of Titanium Nitride Thin Films. , 2018, , .		1
46	Practical Platform for Nanophotonics with Refractory Plasmonic Metal Nitrides and Transparent Conducting Oxides. , 2015, , .		1
47	A practical platform for integrated optics with nitrides and oxides. , 2015, , .		0
48	Transparent conducting oxides as dynamic materials at telecom wavelengths. , 2015, , .		0
49	Design and Optimization of an Acoustic Metamaterial Lens. , 2020, , .		0