

R Niall Tait

List of Publications by Year in descending order

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57
papers

1,260
citations

516710

16
h-index

361022

35
g-index

57
all docs

57
docs citations

57
times ranked

1291
citing authors

#	ARTICLE	IF	CITATIONS
1	Hot embossing of microfluidics in cyclic-olefin co-polymer using a wafer aligner-bonder. <i>Microsystem Technologies</i> , 2021, 27, 3899-3906.	2.0	8
2	Tri-layer contact photolithography process for high-resolution lift-off. <i>Microelectronic Engineering</i> , 2021, 241, 111545.	2.4	5
3	Direct thermal emission testing of aperiodic dielectric stack for narrowband thermal emission at mid-IR. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	7
4	Wafer-bonded surface plasmon waveguide sensors with in-plane microfluidic interfaces. <i>Journal of Micromechanics and Microengineering</i> , 2020, 30, 095004.	2.6	4
5	Reactive Ion Etching of Cytop and Investigation of Residual Microstructures. <i>Journal of Microelectromechanical Systems</i> , 2020, 29, 228-235.	2.5	6
6	Conductor-backed dielectric metasurface thermal emitters for mid-infrared spectroscopy. <i>Journal of Applied Physics</i> , 2020, 127, 033105.	2.5	2
7	Nanofabrication of plasmonic structures on insulating substrates by resist-on-metal bilayer lift-off. <i>Nanotechnology</i> , 2019, 30, 054003.	2.6	2
8	Grating couplers fabricated by e-beam lithography for long-range surface plasmon waveguides embedded in a fluoropolymer. <i>Applied Optics</i> , 2019, 58, 2994.	1.8	10
9	Single-mode surface plasmon distributed feedback lasers. <i>Nanoscale</i> , 2018, 10, 5914-5922.	5.6	34
10	Long-Range Surface Plasmon Lasers. , 2018, , .		0
11	Fabrication of long range surface plasmon waveguide biosensors in a low-index fluoropolymer. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2018, 36, 042601.	1.2	3
12	High-Q all-dielectric thermal emitters for mid-infrared gas-sensing applications. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2018, 35, 119.	1.5	17
13	Bloch Long-Range Surface Plasmon Polaritons on Metal Stripe Waveguides on a Multilayer Substrate. <i>ACS Photonics</i> , 2017, 4, 593-599.	6.6	30
14	Active Plasmonics, Plasmonic Amplification and Lasing. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2017, , 1-37.	0.1	0
15	Gain and bleaching investigation of IR-140 doped PMMA. , 2017, , .		0
16	Gain optimization, bleaching, and e-beam structuring of IR-140 doped PMMA and integration with plasmonic waveguides. <i>Optical Materials Express</i> , 2017, 7, 3963.	3.0	7
17	Active asymmetric plasmonic Bragg gratings. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
18	Surface plasmon distributed feedback lasers and parity-time symmetric gratings. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
19	Parity-time symmetry-broken Bragg grating operating with long-range surface plasmon polaritons. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	1
20	Unidirectional Bragg Gratings Using Parity-Time Symmetry Breaking in Plasmonic Systems. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 48-59.	2.9	14
21	Fabrication of metal strip waveguides for optical and microwave data transmission. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2015, 33, 061208.	1.2	4
22	Fabrication of long-range surface plasmon-polariton Bragg gratings with microfluidic channels in Cytop claddings. Microelectronic Engineering, 2015, 135, 38-44.	2.4	12
23	Plasmonic Nanostructured Metal-Oxide-Semiconductor Reflection Modulators. Nano Letters, 2015, 15, 2304-2311.	9.1	56
24	Surface plasmon amplification and active nonreciprocal gratings. Proceedings of SPIE, 2015, , .	0.8	0
25	Modeling of long range surface plasmon polariton cladded membrane waveguides with integrated grating couplers as hydrogen sensors. Journal of Applied Physics, 2015, 117, 163108.	2.5	3
26	Fabrication of long-range surface plasmon hydrogen sensors on Cytop membranes integrating grating couplers. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2015, 33, 021201.	1.2	9
27	Characterization of grating-coupled long range surface plasmon polariton membrane waveguides. Optics Express, 2015, 23, 17421.	3.4	16
28	Fabrication of a plasmonic modulator incorporating an overlaid grating coupler. Nanotechnology, 2014, 25, 495202.	2.6	12
29	Spatially nonreciprocal Bragg gratings based on surface plasmons. Applied Physics Letters, 2014, 105, .	3.3	10
30	Near infrared amplified spontaneous emission in a dye-doped polymeric waveguide for active plasmonic applications. Optics Express, 2014, 22, 12452.	3.4	16
31	Biosensing using straight long-range surface plasmon waveguides. Optics Express, 2013, 21, 698.	3.4	112
32	Atomically flat symmetric elliptical nanohole arrays in a gold film for ultrasensitive refractive index sensing. Lab on A Chip, 2013, 13, 2541.	6.0	42
33	Long range surface plasmon polariton waveguides for hydrogen sensing. Proceedings of SPIE, 2013, , .	0.8	2
34	Solid state long range surface plasmon polariton single mode lasers. , 2013, , .		0
35	Grating coupler excitation of membrane supported long range surface plasmons. , 2012, , .		0
36	Fabrication of surface plasmon waveguides in CYTOP. Proceedings of SPIE, 2012, , .	0.8	5

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37	Long-range surface plasmon single-mode laser concepts. <i>Journal of Applied Physics</i> , 2012, 112, 063115.	2.5	12
38	Modeling and design of hydrogen gas sensors based on a membrane-supported surface plasmon waveguide. <i>Sensors and Actuators B: Chemical</i> , 2012, 161, 285-291.	7.8	11
39	Integrated heaters for the thermal tuning of Bragg grating filters on silicon-on-insulator rib waveguides. <i>Microwave and Optical Technology Letters</i> , 2011, 53, 672-676.	1.4	6
40	Surface plasmon waveguide devices with Tg-bonded Cytop claddings. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011, 29, 062601.	1.2	4
41	Design of hydrogen gas sensors based on surface plasmon waveguides. <i>Proceedings of SPIE</i> , 2011, , .	0.8	0
42	Characterization of biosensing waveguides on Cytop. , 2010, , .		0
43	Fabrication of surface plasmon waveguides and integrated components on Cytop. <i>Microelectronic Engineering</i> , 2010, 87, 1914-1921.	2.4	21
44	Fabrication of surface plasmon waveguides and devices in Cytop with integrated microfluidic channels. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010, 28, 729-735.	1.2	49
45	Controlled sacrificial sidewall surface micromachining for the release of high length-to-thickness aspect ratio bridges. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010, 28, 1195-1201.	1.2	1
46	Fabrication and mechanical properties of surface plasmon waveguide biosensors on thin CYTOP membranes. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0
47	Surface plasmon waveguide Schottky detector. <i>Optics Express</i> , 2010, 18, 8505.	3.4	179
48	Mechanical Properties of Thin Free-Standing CYTOP Membranes. <i>Journal of Microelectromechanical Systems</i> , 2010, 19, 700-705.	2.5	11
49	Broadside excitation of surface plasmon waveguides on Cytop. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	18
50	Fabrication of surface plasmon waveguides on thin CYTOP membranes. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2009, 27, 614-619.	2.1	12
51	Hafnium Silicate Gate Insulators in Field Effect Sensors Used to Detect DNA Hybridization. <i>ECS Transactions</i> , 2009, 16, 441-450.	0.5	5
52	Modeling electroosmotic and pressure-driven flows in porous microfluidic devices: Zeta potential and porosity changes near the channel walls. <i>Journal of Chemical Physics</i> , 2006, 125, 094714.	3.0	35
53	Using MEMS Capacitive Switches in Tunable RF Amplifiers. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2006, 2006, 1.	2.4	9
54	Switchable patterned centre-conductor CPW filter using RF MEMS. <i>Microwave and Optical Technology Letters</i> , 2006, 48, 935-938.	1.4	6

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55	Activation of microcomponents with light for micro-electro-mechanical systems and micro-optical-electro-mechanical systems applications. Applied Optics, 2002, 41, 2361.	2.1	18
56	Optical selection, manipulation, trapping, and activation of a microgear structure for applications in micro-optical-electromechanical systems. Applied Optics, 2001, 40, 930.	2.1	37
57	Fabrication of Nanocolumns for Liquid Chromatography. Analytical Chemistry, 1998, 70, 3790-3797.	6.5	377