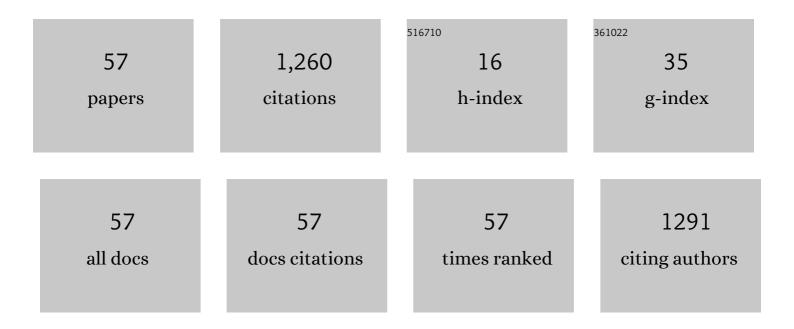
## R Niall Tait

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3057289/publications.pdf Version: 2024-02-01



Ρ.Νιλιί Τλιτ

#	Article	IF	CITATIONS
1	Fabrication of Nanocolumns for Liquid Chromatography. Analytical Chemistry, 1998, 70, 3790-3797.	6.5	377
2	Surface plasmon waveguide Schottky detector. Optics Express, 2010, 18, 8505.	3.4	179
3	Biosensing using straight long-range surface plasmon waveguides. Optics Express, 2013, 21, 698.	3.4	112
4	Plasmonic Nanostructured Metal–Oxide–Semiconductor Reflection Modulators. Nano Letters, 2015, 15, 2304-2311.	9.1	56
5	Fabrication of surface plasmon waveguides and devices in Cytop with integrated microfluidic channels. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, 729-735.	1.2	49
6	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
7	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
8	Modeling electroosmotic and pressure-driven flows in porous microfluidic devices: Zeta potential and porosity changes near the channel walls. Journal of Chemical Physics, 2006, 125, 094714.	3.0	35
9	Single-mode surface plasmon distributed feedback lasers. Nanoscale, 2018, 10, 5914-5922.	5.6	34
10	Bloch Long-Range Surface Plasmon Polaritons on Metal Stripe Waveguides on a Multilayer Substrate. ACS Photonics, 2017, 4, 593-599.	6.6	30
11	Fabrication of surface plasmon waveguides and integrated components on Cytop. Microelectronic Engineering, 2010, 87, 1914-1921.	2.4	21
12	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
13	Broadside excitation of surface plasmon waveguides on Cytop. Applied Physics Letters, 2009, 94, .	3.3	18
14	High-Q all-dielectric thermal emitters for mid-infrared gas-sensing applications. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, 119.	1.5	17
15	Near infrared amplified spontaneous emission in a dye-doped polymeric waveguide for active plasmonic applications. Optics Express, 2014, 22, 12452.	3.4	16
16	Characterization of grating-coupled long range surface plasmon polariton membrane waveguides. Optics Express, 2015, 23, 17421.	3.4	16
17	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
18	Fabrication of surface plasmon waveguides on thin CYTOP membranes. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2009, 27, 614-619.	2.1	12

**R** NIALL TAIT

#	Article	IF	CITATIONS
19	Long-range surface plasmon single-mode laser concepts. Journal of Applied Physics, 2012, 112, 063115.	2.5	12
20	Fabrication of a plasmonic modulator incorporating an overlaid grating coupler. Nanotechnology, 2014, 25, 495202.	2.6	12
21	Fabrication of long-range surface plasmon-polariton Bragg gratings with microfluidic channels in Cytop claddings. Microelectronic Engineering, 2015, 135, 38-44.	2.4	12
22	Mechanical Properties of Thin Free-Standing CYTOP Membranes. Journal of Microelectromechanical Systems, 2010, 19, 700-705.	2.5	11
23	Modeling and design of hydrogen gas sensors based on a membrane-supported surface plasmon waveguide. Sensors and Actuators B: Chemical, 2012, 161, 285-291.	7.8	11
24	Spatially nonreciprocal Bragg gratings based on surface plasmons. Applied Physics Letters, 2014, 105, .	3.3	10
25	Grating couplers fabricated by e-beam lithography for long-range surface plasmon waveguides embedded in a fluoropolymer. Applied Optics, 2019, 58, 2994.	1.8	10
26	Using MEMS Capacitive Switches in Tunable RF Amplifiers. Eurasip Journal on Wireless Communications and Networking, 2006, 2006, 1.	2.4	9
27	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
28	Hot embossing of microfluidics in cyclic-olefin co-polymer using a wafer aligner-bonder. Microsystem Technologies, 2021, 27, 3899-3906.	2.0	8
29	Gain optimization, bleaching, and e-beam structuring of IR-140 doped PMMA and integration with plasmonic waveguides. Optical Materials Express, 2017, 7, 3963.	3.0	7
30	Direct thermal emission testing of aperiodic dielectric stack for narrowband thermal emission at mid-IR. Journal of Applied Physics, 2020, 127, .	2.5	7
31	Switchable patterned centre-conductor CPW filter using RF MEMS. Microwave and Optical Technology Letters, 2006, 48, 935-938.	1.4	6
32	Integrated heaters for the thermal tuning of Bragg grating filters on siliconâ€onâ€insulator rib waveguides. Microwave and Optical Technology Letters, 2011, 53, 672-676.	1.4	6
33	Reactive Ion Etching of Cytop and Investigation of Residual Microstructures. Journal of Microelectromechanical Systems, 2020, 29, 228-235.	2.5	6
34	Hafnium Silicate Gate Insulators in Field Effect Sensors Used to Detect DNA Hybridization. ECS Transactions, 2009, 16, 441-450.	0.5	5
35	Fabrication of surface plasmon waveguides in CYTOP. Proceedings of SPIE, 2012, , .	0.8	5
36	Tri-layer contact photolithography process for high-resolution lift-off. Microelectronic Engineering, 2021, 241, 111545.	2.4	5

**R NIALL TAIT** 

0

#	Article	IF	CITATIONS
37	Surface plasmon waveguide devices with Tg-bonded Cytop claddings. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2011, 29, 062601.	1.2	4
38	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
39	Wafer-bonded surface plasmon waveguide sensors with in-plane microfluidic interfaces. Journal of Micromechanics and Microengineering, 2020, 30, 095004.	2.6	4
40	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
41	Fabrication of long range surface plasmon waveguide biosensors in a low-index fluoropolymer. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2018, 36, 042601.	1.2	3
42	Long range surface plasmon polariton waveguides for hydrogen sensing. Proceedings of SPIE, 2013, , .	0.8	2
43	Nanofabrication of plasmonic structures on insulating substrates by resist-on-metal bilayer lift-off. Nanotechnology, 2019, 30, 054003.	2.6	2
44	Conductor-backed dielectric metasurface thermal emitters for mid-infrared spectroscopy. Journal of Applied Physics, 2020, 127, 033105.	2.5	2
45	Controlled sacrificial sidewall surface micromachining for the release of high length-to-thickness aspect ratio bridges. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, 1195-1201.	1.2	1
46	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
47	Characterization of biosensing waveguides on Cytop. , 2010, , .		0
48	Fabrication and mechanical properties of surface plasmon waveguide biosensors on thin CYTOP membranes. Proceedings of SPIE, 2010, , .	0.8	0
49	Design of hydrogen gas sensors based on surface plasmon waveguides. Proceedings of SPIE, 2011, , .	0.8	0
50	Grating coupler excitation of membrane supported long range surface plasmons. , 2012, , .		0
51	Solid state long range surface plasmon polariton single mode lasers. , 2013, , .		0
52	Surface plasmon amplification and active nonreciprocal gratings. Proceedings of SPIE, 2015, , .	0.8	0
53	Active asymmetric plasmonic Bragg gratings. Proceedings of SPIE, 2016, , .	0.8	0

#	Article	IF	CITATIONS
55	Active Plasmonics, Plasmonic Amplification and Lasing. World Scientific Series in Nanoscience and Nanotechnology, 2017, , 1-37.	0.1	0
56	Gain and bleaching investigation of IR-140 doped PMMA. , 2017, , .		0
57	Long-Range Surface Plasmon Lasers. , 2018, , .		0