

Yannick Salamin

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

2,639
citations

257450

24
h-index

395702

33
g-index

50
all docs

50
docs citations

50
times ranked

2800
citing authors

#	ARTICLE	IF	CITATIONS
1	All-plasmonic Mach-Zehnder modulator enabling optical high-speed communication at the microscale. <i>Nature Photonics</i> , 2015, 9, 525-528.	31.4	466
2	High-speed plasmonic modulator in a single metal layer. <i>Science</i> , 2017, 358, 630-632.	12.6	236
3	Waveguide-integrated van der Waals heterostructure photodetector at telecom wavelengths with high speed and high responsivity. <i>Nature Nanotechnology</i> , 2020, 15, 118-124.	31.5	208
4	Plasmonically Enhanced Graphene Photodetector Featuring 100 Gbit/s Data Reception, High Responsivity, and Compact Size. <i>ACS Photonics</i> , 2019, 6, 154-161.	6.6	169
5	100 GHz Plasmonic Photodetector. <i>ACS Photonics</i> , 2018, 5, 3291-3297.	6.6	146
6	Plasmonic modulator with >170 GHz bandwidth demonstrated at 100 GBd NRZ. <i>Optics Express</i> , 2017, 25, 1762.	3.4	125
7	Nonlinearities of organic electro-optic materials in nanoscale slots and implications for the optimum modulator design. <i>Optics Express</i> , 2017, 25, 2627.	3.4	114
8	Plasmonic IQ modulators with attojoule per bit electrical energy consumption. <i>Nature Communications</i> , 2019, 10, 1694.	12.8	112
9	Plasmonic Photodetectors. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018, 24, 1-13.	2.9	88
10	Direct Conversion of Free Space Millimeter Waves to Optical Domain by Plasmonic Modulator Antenna. <i>Nano Letters</i> , 2015, 15, 8342-8346.	9.1	85
11	Fast MoTe ₂ Waveguide Photodetector with High Sensitivity at Telecommunication Wavelengths. <i>ACS Photonics</i> , 2018, 5, 1846-1852.	6.6	83
12	Compact and ultra-efficient broadband plasmonic terahertz field detector. <i>Nature Communications</i> , 2019, 10, 5550.	12.8	77
13	Plasmonic Organic Hybrid Modulators—Scaling Highest Speed Photonics to the Microscale. <i>Proceedings of the IEEE</i> , 2016, 104, 2362-2379.	21.3	76
14	High Dynamic-Range Motion Imaging Based on Linearized Doppler Radar Sensor. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2014, 62, 1837-1846.	4.6	68
15	Microwave plasmonic mixer in a transparent fibre—wireless link. <i>Nature Photonics</i> , 2018, 12, 749-753.	31.4	67
16	High speed plasmonic modulator array enabling dense optical interconnect solutions. <i>Optics Express</i> , 2015, 23, 29746.	3.4	49
17	Optimal Matched Rectifying Surface for Space Solar Power Satellite Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2014, 62, 1080-1089.	4.6	47
18	Optimization of Plasmonic-Organic Hybrid Electro-Optics. <i>Journal of Lightwave Technology</i> , 2018, 36, 5036-5047.	4.6	41

#	ARTICLE	IF	CITATIONS
19	Electro-optic interface for ultrasensitive intracavity electric field measurements at microwave and terahertz frequencies. <i>Optica</i> , 2020, 7, 498.	9.3	39
20	Atomic Scale Photodetection Enabled by a Memristive Junction. <i>ACS Nano</i> , 2018, 12, 6706-6713.	14.6	37
21	Fullwave Maxwell inverse design of axisymmetric, tunable, and multi-scale multi-wavelength metalenses. <i>Optics Express</i> , 2020, 28, 33854.	3.4	36
22	Ultra compact electrochemical metallization cells offering reproducible atomic scale memristive switching. <i>Communications Physics</i> , 2019, 2, .	5.3	35
23	Plasmonic phased array feeder enabling ultra-fast beam steering at millimeter waves. <i>Optics Express</i> , 2016, 24, 25608.	3.4	32
24	Ultra-Fast Millimeter Wave Beam Steering. <i>IEEE Journal of Quantum Electronics</i> , 2016, 52, 1-8.	1.9	29
25	Transparent Optical-THz-Optical Link at 240/192 Gbit/s Over 5/115 m Enabled by Plasmonics. <i>Journal of Lightwave Technology</i> , 2022, 40, 1690-1697.	4.6	24
26	Toward 3D-Printed Inverse-Designed Metaoptics. <i>ACS Photonics</i> , 2022, 9, 43-51.	6.6	23
27	High-speed CMOS-compatible III-V on Si membrane photodetectors. <i>Optics Express</i> , 2021, 29, 509.	3.4	21
28	Optical Interconnect Solution With Plasmonic Modulator and Ge Photodetector Array. <i>IEEE Photonics Technology Letters</i> , 2017, 29, 1760-1763.	2.5	19
29	Noncontact measurement of complex permittivity based on the principle of mid-range wireless power transfer. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2014, 62, 669-678.	4.6	12
30	Transparent Optical-THz-Optical Link Transmission over 5/115 m at 240/190 Gbit/s Enabled by Plasmonics. , 2021, , .		12
31	Metasurface Colloidal Quantum Dot Photodetectors. <i>ACS Photonics</i> , 2022, 9, 482-492.	6.6	11
32	All-Plasmonic IQ Modulator With a 36 $\hat{1}$ / ₄ m Fiber-to-Fiber Pitch. <i>Journal of Lightwave Technology</i> , 2019, 37, 1492-1497.	4.6	10
33	Eliminating the Impacts of Flicker Noise and DC Offset in Zero-IF Architecture Pulse Compression Radars. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2014, 62, 879-888.	4.6	7
34	High-Speed Graphene Photodetection: 300 GHz is not the Limit. , 2021, , .		7
35	300 GHz Plasmonic Mixer. , 2019, , .		6
36	High Speed Photoconductive Plasmonic Germanium Detector. , 2017, , .		6

#	ARTICLE	IF	CITATIONS
37	Direct RF-to-Optical Detection by Plasmonic modulator integrated into a four-leaf-clover antenna. , 2016, , .		4
38	Atomic Photodetection. , 2016, , .		3
39	Plasmonics for Communications. , 2018, , .		3
40	100 Gbit/s Graphene Photodetector. , 2018, , .		2
41	100 GBd Ultra-Compact Plasmonic Graphene Photodetector. , 2018, , .		1
42	Multi-scale theory-assisted nano-engineering of plasmonic-organic hybrid electro-optic device performance. , 2018, , .		1
43	Integrated photonic and plasmonic technologies for microwave signal processing enabling mm-wave and sub-THz wireless communication systems. , 2019, , .		1
44	All-Plasmonic IQ Modulator with $36 \mu\text{m}$ Fiber-to-Fiber Pitch. , 2018, , .		0
45	A 325 GHz Analog Photonic Link. , 2019, , .		0
46	All-Plasmonic 100 GBd Optical Communication Link. , 2019, , .		0
47	Sub-micron Plasmonic Waveguide Resonator. , 2020, , .		0
48	Integrated Plasmonic Terahertz Field Detector. , 2020, , .		0
49	Electro-optic interface for ultrasensitive intra-cavity electric field sensing. , 2020, , .		0