

Yannick Salamin

List of Publications by Year in descending order

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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	Toward 3D-Printed Inverse-Designed Metaoptics. ACS Photonics, 2022, 9, 43-51.	6.6	23
2	Metasurface Colloidal Quantum Dot Photodetectors. ACS Photonics, 2022, 9, 482-492.	6.6	11
3	Transparent Optical-THz-Optical Link at 240/192 Gbit/s Over 5/115 m Enabled by Plasmonics. Journal of Lightwave Technology, 2022, 40, 1690-1697.	4.6	24
4	High-Speed Graphene Photodetection: 300 GHz is not the Limit. , 2021, , .		7
5	High-speed CMOS-compatible III-V on Si membrane photodetectors. Optics Express, 2021, 29, 509.	3.4	21
6	Transparent Optical-THz-Optical Link Transmission over 5/115 m at 240/190 Gbit/s Enabled by Plasmonics. , 2021, , .		12
7	Waveguide-integrated van der Waals heterostructure photodetector at telecom wavelengths with high speed and high responsivity. Nature Nanotechnology, 2020, 15, 118-124.	31.5	208
8	Fullwave Maxwell inverse design of axisymmetric, tunable, and multi-scale multi-wavelength metalenses. Optics Express, 2020, 28, 33854.	3.4	36
9	Electro-optic interface for ultrasensitive intracavity electric field measurements at microwave and terahertz frequencies. Optica, 2020, 7, 498.	9.3	39
10	Sub-micron Plasmonic Waveguide Resonator. , 2020, , .		0
11	Integrated Plasmonic Terahertz Field Detector. , 2020, , .		0
12	Electro-optic interface for ultrasensitive intra-cavity electric field sensing. , 2020, , .		0
13	Plasmonic IQ modulators with attojoule per bit electrical energy consumption. Nature Communications, 2019, 10, 1694.	12.8	112
14	All-Plasmonic IQ Modulator With a 36 $\hat{1}$ / ₄ μ m Fiber-to-Fiber Pitch. Journal of Lightwave Technology, 2019, 37, 1492-1497.	4.6	10
15	Ultra compact electrochemical metallization cells offering reproducible atomic scale memristive switching. Communications Physics, 2019, 2, .	5.3	35
16	300 GHz Plasmonic Mixer. , 2019, , .		6
17	Compact and ultra-efficient broadband plasmonic terahertz field detector. Nature Communications, 2019, 10, 5550.	12.8	77
18	A 325 GHz Analog Photonic Link. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
19	Plasmonically Enhanced Graphene Photodetector Featuring 100 Gbit/s Data Reception, High Responsivity, and Compact Size. ACS Photonics, 2019, 6, 154-161.	6.6	169
20	All-Plasmonic 100 GBd Optical Communication Link. , 2019, , .		0
21	Integrated photonic and plasmonic technologies for microwave signal processing enabling mm-wave and sub-THz wireless communication systems. , 2019, , .		1
22	Fast MoTe ₂ Waveguide Photodetector with High Sensitivity at Telecommunication Wavelengths. ACS Photonics, 2018, 5, 1846-1852.	6.6	83
23	All-Plasmonic IQ Modulator with $\sim 36 \mu\text{m}$ Fiber-to-Fiber Pitch. , 2018, , .		0
24	100 GBd Ultra-Compact Plasmonic Graphene Photodetector. , 2018, , .		1
25	Microwave plasmonic mixer in a transparent fibre “wireless link. Nature Photonics, 2018, 12, 749-753.	31.4	67
26	Plasmonic Photodetectors. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-13.	2.9	88
27	100 GHz Plasmonic Photodetector. ACS Photonics, 2018, 5, 3291-3297.	6.6	146
28	Atomic Scale Photodetection Enabled by a Memristive Junction. ACS Nano, 2018, 12, 6706-6713.	14.6	37
29	Optimization of Plasmonic-Organic Hybrid Electro-Optics. Journal of Lightwave Technology, 2018, 36, 5036-5047.	4.6	41
30	100 Gbit/s Graphene Photodetector. , 2018, , .		2
31	Plasmonics for Communications. , 2018, , .		3
32	Multi-scale theory-assisted nano-engineering of plasmonic-organic hybrid electro-optic device performance. , 2018, , .		1
33	High-speed plasmonic modulator in a single metal layer. Science, 2017, 358, 630-632.	12.6	236
34	Optical Interconnect Solution With Plasmonic Modulator and Ge Photodetector Array. IEEE Photonics Technology Letters, 2017, 29, 1760-1763.	2.5	19
35	Plasmonic modulator with >170 GHz bandwidth demonstrated at 100 GBd NRZ. Optics Express, 2017, 25, 1762.	3.4	125
36	Nonlinearities of organic electro-optic materials in nanoscale slots and implications for the optimum modulator design. Optics Express, 2017, 25, 2627.	3.4	114

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37	High Speed Photoconductive Plasmonic Germanium Detector. , 2017, , .		6
38	Plasmonic phased array feeder enabling ultra-fast beam steering at millimeter waves. Optics Express, 2016, 24, 25608.	3.4	32
39	Plasmonic Organic Hybrid Modulatorsâ€™Scaling Highest Speed Photonics to the Microscale. Proceedings of the IEEE, 2016, 104, 2362-2379.	21.3	76
40	Ultra-Fast Millimeter Wave Beam Steering. IEEE Journal of Quantum Electronics, 2016, 52, 1-8.	1.9	29
41	Atomic Photodetection. , 2016, , .		3
42	Direct RF-to-Optical Detection by Plasmonic modulator integrated into a four-leaf-clover antenna. , 2016, , .		4
43	High speed plasmonic modulator array enabling dense optical interconnect solutions. Optics Express, 2015, 23, 29746.	3.4	49
44	All-plasmonic Machâ€™Zehnder modulator enabling optical high-speed communication at the microscale. Nature Photonics, 2015, 9, 525-528.	31.4	466
45	Direct Conversion of Free Space Millimeter Waves to Optical Domain by Plasmonic Modulator Antenna. Nano Letters, 2015, 15, 8342-8346.	9.1	85
46	Eliminating the Impacts of Flicker Noise and DC Offset in Zero-IF Architecture Pulse Compression Radars. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 879-888.	4.6	7
47	High Dynamic-Range Motion Imaging Based on Linearized Doppler Radar Sensor. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 1837-1846.	4.6	68
48	Optimal Matched Rectifying Surface for Space Solar Power Satellite Applications. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 1080-1089.	4.6	47
49	Noncontact measurement of complex permittivity based on the principle of mid-range wireless power transfer. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 669-678.	4.6	12