

# Anna Lena Giesecke

## List of Publications by Year in descending order

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33  
papers

1,080  
citations

516710

16  
h-index

580821

25  
g-index

33  
all docs

33  
docs citations

33  
times ranked

1862  
citing authors

#	ARTICLE	IF	CITATIONS
1	50 GBit/s Photodetectors Based on Wafer-Scale Graphene for Integrated Silicon Photonic Communication Systems. ACS Photonics, 2014, 1, 781-784.	6.6	162
2	Room-Temperature Stimulated Emission and Lasing in Recrystallized Cesium Lead Bromide Perovskite Thin Films. Advanced Materials, 2019, 31, e1903717.	21.0	148
3	Silicon-Organic Hybrid (SOH) and Plasmonic-Organic Hybrid (POH) Integration. Journal of Lightwave Technology, 2016, 34, 256-268.	4.6	119
4	Monolithically Integrated Perovskite Semiconductor Lasers on Silicon Photonic Chips by Scalable Top-Down Fabrication. Nano Letters, 2018, 18, 6915-6923.	9.1	98
5	Experimental verification of electro-refractive phase modulation in graphene. Scientific Reports, 2015, 5, 10967.	3.3	83
6	Open-Access Silicon Photonics Platforms in Europe. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-18.	2.9	82
7	Integrated perovskite lasers on a silicon nitride waveguide platform by cost-effective high throughput fabrication. Optics Express, 2017, 25, 13199.	3.4	55
8	Time-Resolved Characterization of the Formation of a Collisionless Shock. Physical Review Letters, 2013, 110, 205001.	7.8	54
9	Infrared transparent graphene heater for silicon photonic integrated circuits. Optics Express, 2016, 24, 7871.	3.4	44
10	Characterization of CMOS metal based dielectric loaded surface plasmon waveguides at telecom wavelengths. Optics Express, 2017, 25, 394.	3.4	26
11	Aluminum plasmonic waveguides co-integrated with Si <sub>3</sub> N <sub>4</sub> photonics using CMOS processes. Scientific Reports, 2018, 8, 13380.	3.3	26
12	Scaling the Sensitivity of Integrated Plasmo-Photonic Interferometric Sensors. ACS Photonics, 2019, 6, 1664-1673.	6.6	21
13	CMOS plasmonics in WDM data transmission: 200 Gb/s (8 Å– 25Gb/s) transmission over aluminum plasmonic waveguides. Optics Express, 2018, 26, 12469.	3.4	20
14	ARCTURUS laser: a versatile high-contrast, high-power multi-beam laser system. High Power Laser Science and Engineering, 2019, 7, .	4.6	20
15	Reflective arrayed waveguide gratings based on Sagnac loop reflectors with custom spectral response. Optics Express, 2014, 22, 14348.	3.4	17
16	Hybrid Devices by Selective and Conformal Deposition of PtSe <sub>2</sub> at Low Temperatures. Advanced Functional Materials, 2021, 31, 2103936.	14.9	17
17	Plasmonics co-integrated with silicon nitride photonics for high-sensitivity interferometric biosensing. Optics Express, 2019, 27, 17102.	3.4	14
18	Two-Dimensional Platinum Diselenide Waveguide-Integrated Infrared Photodetectors. ACS Photonics, 2022, 9, 859-867.	6.6	14

#	ARTICLE	IF	CITATIONS
19	High-efficiency grating coupler for an ultralow-loss Si <sub>3</sub> N <sub>4</sub> -based platform. Optics Letters, 2022, 47, 2498.	3.3	13
20	Plasmonic Stripes in Aqueous Environment Co-Integrated With Si <sub>3</sub> N <sub>4</sub> Photonics. IEEE Photonics Journal, 2018, 10, 1-8.	2.0	11
21	Experimental Observation of Thin-shell Instability in a Collisionless Plasma. Astrophysical Journal Letters, 2017, 834, L21.	8.3	8
22	Bringing Plasmonics Into CMOS Photonic Foundries: Aluminum Plasmonics on Si <sub>3</sub> N <sub>4</sub> for Biosensing Applications. Journal of Lightwave Technology, 2019, 37, 5516-5524.	4.6	8
23	Water Cladded Plasmonic Slot Waveguide Vertically Coupled With Si <sub>3</sub> N <sub>4</sub> Photonics. IEEE Photonics Journal, 2018, 10, 1-8.	2.0	5
24	UV harmonics generated on modulated targets irradiated by high-intensity laser pulses. Laser and Particle Beams, 2019, 37, 12-17.	1.0	4
25	Add-drop Microring Resonator for Electro-optical Switching and Optical Power Monitoring. , 2014, , .		3
26	Fully Flexible Filtering Element on SOI with 7-80 GHz bandwidth tunability and full FSR tuning. , 2018, , .		3
27	56 Gb/s WDM transmitter module based on silicon microrings using comb lasers. , 2015, , .		2
28	16 Å– 1 Packaged MUX/DEMUX for Flexible-Grid Optical Networks. Journal of Lightwave Technology, 2017, 35, 3050-3059.	4.6	2
29	Efficient Metal-Halide Perovskite Micro Disc Lasers Integrated in a Silicon Nitride Photonic Platform. , 2018, , .		1
30	Optimisation of laser driven proton beams by an innovative target scheme. Journal of Instrumentation, 2017, 12, C06025-C06025.	1.2	0
31	Experimental demonstration of electro-refractive phase modulators based on graphene. , 2015, , .		0
32	CMOS plasmonic waveguides co-integrated with LPCVD-based Si <sub>3</sub> N <sub>4</sub> via a butt-coupled interface. , 2018, , .		0
33	Efficient coupling between Si <sub>3</sub> N <sub>4</sub> photonic and hybrid slot-based CMOS plasmonic waveguide. , 2018, , .		0