

# Rolf Szedlak

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3831033/publications.pdf>

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16  
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docs citations

16  
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194  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mid-infrared surface transmitting and detecting quantum cascade device for gas-sensing. Scientific Reports, 2016, 6, 21795.	3.3	38
2	Linearly polarized light from substrate emitting ring cavity quantum cascade lasers. Applied Physics Letters, 2013, 103, 081101.	3.3	21
3	Remote Sensing with Commutable Monolithic Laser and Detector. ACS Photonics, 2016, 3, 1794-1798.	6.6	21
4	Advanced gas sensors based on substrate-integrated hollow waveguides and dual-color ring quantum cascade lasers. Analyst, The, 2016, 141, 6202-6207.	3.5	20
5	Grating-based far field modifications of ring quantum cascade lasers. Optics Express, 2014, 22, 15829.	3.4	19
6	The influence of whispering gallery modes on the far field of ring lasers. Scientific Reports, 2015, 5, 16668.	3.3	17
7	On-chip focusing in the mid-infrared: Demonstrated with ring quantum cascade lasers. Applied Physics Letters, 2014, 104, .	3.3	15
8	High frequency modulation and (quasi) single-sideband emission of mid-infrared ring and ridge quantum cascade lasers. Optics Express, 2019, 27, 14716.	3.4	14
9	Substrate-emitting ring interband cascade lasers. Applied Physics Letters, 2017, 111, .	3.3	12
10	Surface emitting ring quantum cascade lasers for chemical sensing. Optical Engineering, 2017, 57, 1.	1.0	8
11	Ring quantum cascade lasers with twisted wavefronts. Scientific Reports, 2018, 8, 7998.	3.3	7
12	Ring quantum cascade lasers with grating phase shifts and a light collimating dielectric metamaterial for enhanced infrared spectroscopy. Vibrational Spectroscopy, 2016, 84, 101-105.	2.2	4
13	Large-signal modulation in distributed feedback quantum cascade lasers for coherent multiharmonic signal generation. Optical and Quantum Electronics, 2018, 50, 1.	3.3	1
14	High Frequency Modulation Characteristics of Mid-Infrared Ring Quantum Cascade Lasers. , 2019, , .		1
15	Substrate-emitting ring interband cascade lasers. , 2017, , .		0
16	Ring Interband Cascade Lasers for Environmental Monitoring. , 2019, , .		0