

# Thomas F Carruthers

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4790256/publications.pdf>

Version: 2024-02-01

17  
papers

154  
citations

1478505

6  
h-index

1372567

10  
g-index

17  
all docs

17  
docs citations

17  
times ranked

134  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dissipative cnoidal waves (Turing rolls) and the soliton limit in microring resonators. <i>Optica</i> , 2019, 6, 1220.	9.3	42
2	Wake mode sidebands and instability in mode-locked lasers with slow saturable absorbers. <i>Optics Letters</i> , 2017, 42, 2362.	3.3	29
3	Calculation of the impulse response and phase noise of a high-current photodetector using the drift-diffusion equations. <i>Optics Express</i> , 2019, 27, 3717.	3.4	28
4	Thermal instabilities, frequency-comb formation, and temporal oscillations in Kerr microresonators. <i>Physical Review A</i> , 2021, 103, .	2.5	15
5	Deterministic access of broadband frequency combs in microresonators using cnoidal waves in the soliton crystal limit. <i>Optics Express</i> , 2020, 28, 36304.	3.4	11
6	Efficiently modeling the noise performance of short-pulse lasers with a computational implementation of dynamical methods. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018, 35, 2521.	2.1	8
7	Optimized two-layer motheye structures for MgAl <sub>2</sub> O <sub>4</sub> spinel ceramic windows. <i>OSA Continuum</i> , 2021, 4, 2143.	1.8	5
8	Obtaining more energetic modelocked pulses from a SESAM-based fiber laser. <i>Optics Express</i> , 2020, 28, 20345.	3.4	5
9	Impact of Nonlinearity in an MUTC Photodetector on an RF-Modulated Frequency Comb. , 2019, , .		3
10	Comparison of the impact of nonlinearity in a p-i-n and an MUTC photodetector on electro-optic frequency combs. <i>Optics Letters</i> , 2021, 46, 813.	3.3	2
11	Impact of nonlinearity including bleaching in MUTC photodetectors on RF-modulated electro-optic frequency combs. <i>Optics Express</i> , 2021, 29, 11520.	3.4	2
12	Photodetector Performance Prediction with Machine Learning. , 2021, , .		2
13	Impact of Nonlinearity on RF-Modulated Frequency Combs with Different Modulation Depths in an MUTC Photodetector. , 2019, , .		1
14	Automatically Mapping the Stable Regions of Frequency Combs in Microresonators. , 2021, , .		1
15	Modeling nonlinearity in a modified uni-traveling-carrier (MUTC) photodetector. , 2015, , .		0
16	Impact of Nonlinearity Including Bleaching in $\text{p-i-n}$ Photodetectors on RF-Modulated Electro-Optic Frequency Combs. <i>IEEE Photonics Journal</i> , 2021, 13, 1-7.	2.0	0
17	A Deterministic Method for Obtaining Large-Bandwidth Frequency Combs in Microresonators with Thermal Effects. , 2020, , .		0