

Rayko Ivanov Stantchev

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

1,123
citations

623734

14
h-index

752698

20
g-index

27
all docs

27
docs citations

27
times ranked

1068
citing authors

#	ARTICLE	IF	CITATIONS
1	Noninvasive, near-field terahertz imaging of hidden objects using a single-pixel detector. <i>Science Advances</i> , 2016, 2, e1600190.	10.3	336
2	Real-time terahertz imaging with a single-pixel detector. <i>Nature Communications</i> , 2020, 11, 2535.	12.8	225
3	Compressed sensing with near-field THz radiation. <i>Optica</i> , 2017, 4, 989.	9.3	124
4	Graphene controlled Brewster angle device for ultra broadband terahertz modulation. <i>Nature Communications</i> , 2018, 9, 4909.	12.8	117
5	Terahertz (THz) biophotonics technology: Instrumentation, techniques, and biomedical applications. <i>Chemical Physics Reviews</i> , 2022, 3, .	5.7	42
6	THz in vivo measurements: the effects of pressure on skin reflectivity. <i>Biomedical Optics Express</i> , 2018, 9, 6467.	2.9	37
7	In vivo terahertz imaging to evaluate scar treatment strategies: silicone gel sheeting. <i>Biomedical Optics Express</i> , 2019, 10, 3584.	2.9	35
8	In vivo estimation of water diffusivity in occluded human skin using terahertz reflection spectroscopy. <i>Journal of Biophotonics</i> , 2019, 12, e201800145.	2.3	31
9	Subwavelength Terahertz Imaging of Graphene Photoconductivity. <i>Nano Letters</i> , 2016, 16, 7019-7024.	9.1	27
10	Super Sub-Nyquist Single-Pixel Imaging by Total Variation Ascending Ordering of the Hadamard Basis. <i>Scientific Reports</i> , 2020, 10, 9338.	3.3	23
11	Subwavelength hyperspectral THz studies of articular cartilage. <i>Scientific Reports</i> , 2018, 8, 6924.	3.3	22
12	Highly Sensitive Terahertz Thin-Film Total Internal Reflection Spectroscopy Reveals in Situ Photoinduced Structural Changes in Methylammonium Lead Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17552-17558.	3.1	21
13	Graphene-loaded metal wire grating for deep and broadband THz modulation in total internal reflection geometry. <i>Photonics Research</i> , 2018, 6, 1151.	7.0	20
14	Exploiting Total Internal Reflection Geometry for Terahertz Devices and Enhanced Sample Characterization. <i>Advanced Optical Materials</i> , 2020, 8, 1900535.	7.3	19
15	Rapid Imaging of Pulsed Terahertz Radiation with Spatial Light Modulators and Neural Networks. <i>ACS Photonics</i> , 0, , .	6.6	10
16	Objective and efficient terahertz signal denoising by transfer function reconstruction. <i>APL Photonics</i> , 2020, 5, .	5.7	9
17	Detection of defects on the surface of a semiconductor by terahertz surface plasmon polaritons. <i>Applied Optics</i> , 2016, 55, 4139.	2.1	8
18	Deep THz modulation at Fabry-Perot resonances using graphene in periodic microslits. <i>Optics Express</i> , 2021, 29, 6199.	3.4	7

#	ARTICLE	IF	CITATIONS
19	Non-destructive plasma frequency measurement for a semiconductor thin film using broadband surface plasmon polaritons. Optics Communications, 2018, 410, 926-929.	2.1	5
20	Investigation of terahertz surface plasmon modulation with optical injection of free carriers. Optical Engineering, 2016, 55, 064109.	1.0	3
21	Total Internal Reflection THz Devices for High Speed Imaging. , 2018, , .		1
22	Total Internal Reflection Geometry: Exploiting Total Internal Reflection Geometry for Terahertz Devices and Enhanced Sample Characterization (Advanced Optical Materials 3/2020). Advanced Optical Materials, 2020, 8, 2070012.	7.3	1
23	In Vivo Terahertz Skin Imaging for Scar Treatment Evaluation. , 2019, , .		0
24	Towards real-time THz imaging with single-pixel detectors. , 2019, , .		0
25	THz Instrumentation and Analysis Techniques for Biomedical Research. , 2019, , .		0
26	Spatial Terahertz-Light Modulators for Single-Pixel Cameras. , 0, , .		0
27	Real-time terahertz imaging with a single-pixel detector. , 2021, , .		0