

# Hungyen Lin

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

1,407  
citations

361413

20  
h-index

330143

37  
g-index

61  
all docs

61  
docs citations

61  
times ranked

1641  
citing authors

#	ARTICLE	IF	CITATIONS
1	T-Ray Sensing and Imaging. Proceedings of the IEEE, 2007, 95, 1528-1558.	21.3	154
2	Uncertainty in terahertz time-domain spectroscopy measurement. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 1059.	2.1	142
3	Sub-diffraction thin-film sensing with planar terahertz metamaterials. Optics Express, 2012, 20, 3345.	3.4	100
4	Graphene based plasmonic terahertz amplitude modulator operating above 100%MHz. Applied Physics Letters, 2016, 108, .	3.3	83
5	Elastomeric silicone substrates for terahertz fishnet metamaterials. Applied Physics Letters, 2012, 100, .	3.3	70
6	Measurement of the Intertablet Coating Uniformity of a Pharmaceutical Pan Coating Process With Combined Terahertz and Optical Coherence Tomography In-Line Sensing. Journal of Pharmaceutical Sciences, 2017, 106, 1075-1084.	3.3	69
7	Quantifying Pharmaceutical Film Coating with Optical Coherence Tomography and Terahertz Pulsed Imaging: An Evaluation. Journal of Pharmaceutical Sciences, 2015, 104, 3377-3385.	3.3	55
8	Diffusion and Swelling Measurements in Pharmaceutical Powder Compacts Using Terahertz Pulsed Imaging. Journal of Pharmaceutical Sciences, 2015, 104, 1658-1667.	3.3	53
9	Recent progress in terahertz metamaterial modulators. Nanophotonics, 2022, 11, 1485-1514.	6.0	51
10	Review of Terahertz Pulsed Imaging for Pharmaceutical Film Coating Analysis. Sensors, 2020, 20, 1441.	3.8	43
11	Fast Room-Temperature Detection of Terahertz Quantum Cascade Lasers with Graphene-Loaded Bow-Tie Plasmonic Antenna Arrays. ACS Photonics, 2016, 3, 1747-1753.	6.6	42
12	Impact of Processing Conditions on Inter-tablet Coating Thickness Variations Measured by Terahertz In-Line Sensing. Journal of Pharmaceutical Sciences, 2015, 104, 2513-2522.	3.3	41
13	Fast Modulation of Terahertz Quantum Cascade Lasers Using Graphene Loaded Plasmonic Antennas. ACS Photonics, 2016, 3, 464-470.	6.6	37
14	Contactless graphene conductivity mapping on a wide range of substrates with terahertz time-domain reflection spectroscopy. Scientific Reports, 2017, 7, 10625.	3.3	35
15	A Review of the Applications of OCT for Analysing Pharmaceutical Film Coatings. Applied Sciences (Switzerland), 2018, 8, 2700.	2.5	28
16	Investigations on the impact of the introduction of the Aloe vera into the hydrogel matrix on cytotoxic and hydrophilic properties of these systems considered as potential wound dressings. Materials Science and Engineering C, 2021, 123, 111977.	7.3	27
17	Low-cost ultra-thin broadband terahertz beam-splitter. Optics Express, 2012, 20, 4968.	3.4	25
18	Pharmaceutical Film Coating Catalog for Spectral Domain Optical Coherence Tomography. Journal of Pharmaceutical Sciences, 2017, 106, 3171-3176.	3.3	25

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19	A quantitative comparison of in-line coating thickness distributions obtained from a pharmaceutical tablet mixing process using discrete element method and terahertz pulsed imaging. <i>Chemical Engineering Science</i> , 2018, 192, 34-45.	3.8	22
20	Analysis of measurement uncertainty in THz-TDS. <i>Proceedings of SPIE</i> , 2007, , .	0.8	21
21	Calendering as a direct shaping tool for the continuous production of fixed-dose combination products via co-extrusion. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 96, 125-131.	4.3	21
22	Modelling of sub-wavelength THz sources as Gaussian apertures. <i>Optics Express</i> , 2010, 18, 17672.	3.4	20
23	Investigating Intra-Tablet Coating Uniformity With Spectral-Domain Optical Coherence Tomography. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 546-553.	3.3	20
24	Sensing Water Absorption in Hygrothermally Aged Epoxies with Terahertz Time-Domain Spectroscopy. <i>Analytical Chemistry</i> , 2021, 93, 2449-2455.	6.5	20
25	Through-substrate terahertz time-domain reflection spectroscopy for environmental graphene conductivity mapping. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	19
26	The eggshell membrane: A potential biomaterial for corneal wound healing. <i>Journal of Biomaterials Applications</i> , 2021, 36, 912-929.	2.4	19
27	Gas recognition with terahertz time-domain spectroscopy and spectral catalog: a preliminary study. <i>Proceedings of SPIE</i> , 2007, , .	0.8	17
28	Distributed source model for the full-wave electromagnetic simulation of nonlinear terahertz generation. <i>Optics Express</i> , 2012, 20, 18397.	3.4	17
29	Review of THz near-field methods. , 2006, , .		16
30	Dual-Mode Terahertz Time-Domain Spectroscopy System. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2013, 3, 216-220.	3.1	16
31	Melanins as Sustainable Resources for Advanced Biotechnological Applications. <i>Global Challenges</i> , 2021, 5, 2000102.	3.6	16
32	Determination of Water Content in Dehydrated Mammalian Cells Using Terahertz Pulsed Imaging: A Feasibility Study. <i>Current Pharmaceutical Biotechnology</i> , 2015, 17, 200-207.	1.6	16
33	Quantitative video-rate hydration imaging of Nafion proton exchange membranes with terahertz radiation. <i>Journal of Power Sources</i> , 2020, 450, 227665.	7.8	14
34	Comprehensive modeling of THz microscope with a sub-wavelength source. <i>Optics Express</i> , 2011, 19, 5327.	3.4	10
35	Evaluation of water states in thin proton exchange membrane manufacturing using terahertz time-domain spectroscopy. <i>Journal of Membrane Science</i> , 2022, 647, 120329.	8.2	10
36	Sub-surface imaging of soiled cotton fabric using full-field optical coherence tomography. <i>Optics Express</i> , 2019, 27, 13951.	3.4	7

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37	Gas recognition with terahertz time-domain spectroscopy and reference-free spectrum: A preliminary study. , 2008, , .		4
38	Steps towards numerical verification of the terahertz in-line measurement of tablet mixing by means of discrete element modelling. IET Microwaves, Antennas and Propagation, 2018, 12, 1775-1779.	1.4	4
39	Differentiating Generic versus Branded Pharmaceutical Tablets Using Ultra-High-Resolution Optical Coherence Tomography. Coatings, 2019, 9, 326.	2.6	4
40	Nondestructive in situ monitoring of pea seeds germination using optical coherence tomography. Plant Direct, 2022, 6, .	1.9	4
41	Design and degradation modelling through artificial neural networks. International Journal of Manufacturing Research, 2007, 2, 97.	0.2	2
42	Studying the pharmaceutical film coating process with terahertz sensing, optical coherence tomography and numerical modelling. , 2016, , .		2
43	Fast terahertz optoelectronic amplitude modulator based on plasmonic metamaterial antenna arrays and graphene. Proceedings of SPIE, 2016, , .	0.8	2
44	Graphene-based External Optoelectronic Terahertz Modulators for High Speed Wireless Communications. , 2021, , .		2
45	Studying pharmaceutical tablet coating process with real-time terahertz in-line sensing. , 2013, , .		1
46	Validating terahertz in-line measurement of tablet mixing with discrete element modelling. , 2017, , .		1
47	THz near-field microscopy - A review. , 2006, , .		0
48	THz time-domain spectroscopy uncertainties. , 2007, , .		0
49	Effect of crystal thickness in localized terahertz generation via optical rectification in ZnTe &#x2014; Preliminary investigation. , 2009, , .		0
50	Comparative simulation study of ZnTe heating effects in focused THz radiation generation. , 2010, , .		0
51	Near-field &#x26amp;#x2014; far-field modelling of a sub-wavelength THz source. , 2011, , .		0
52	Power scaling of ultra-thin terahertz beam-splitters. , 2012, , .		0
53	Aqueous diffusion in porous polymer powder compacts studied by terahertz pulsed imaging. , 2013, , .		0
54	Investigation of pharmaceutical film coating process with terahertz sensing, optical coherence tomography and numerical modelling. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
55	Quantitative video-rate hydration imaging of Nafion® proton exchange membranes with THz radiation. , 2019, , .		0
56	Investigating liquid water distribution in Nafion polymer electrolyte membrane with terahertz imaging. , 2019, , .		0
57	Short-time Fourier Transform with Adaptive Windowing Size for THz-TDS. , 2019, , .		0
58	Quantifying water absorption of hygrothermally aged epoxies with terahertz time-domain spectroscopy. , 2021, , .		0
59	Environmental graphene conductivity sensing using terahertz time-domain reflection spectroscopy. , 2020, , .		0
60	Studying pharmaceutical tablets mixing process inside a perforated pan-coater using in-line terahertz sensing. , 2020, , .		0
61	Observing liquid water build-up in proton exchange membrane fuel cells using terahertz imaging and high-resolution optical gauging. , 2020, , .		0