Hungyen Lin

List of Publications by Year
in descending order

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	Evaluation of water states in thin proton exchange membrane manufacturing using terahertz time-domain spectroscopy. Journal of Membrane Science, 2022, 647, 120329.	8.2	10
2	Recent progress in terahertz metamaterial modulators. Nanophotonics, 2022, 11, 1485-1514.	6.0	51
3	Nondestructive in situ monitoring of pea seeds germination using optical coherence tomography. Plant Direct, 2022, 6, .	1.9	4
4	Melanins as Sustainable Resources for Advanced Biotechnological Applications. Global Challenges, 2021, 5, 2000102.	3.6	16
5	Sensing Water Absorption in Hygrothermally Aged Epoxies with Terahertz Time-Domain Spectroscopy. Analytical Chemistry, 2021, 93, 2449-2455.	6.5	20
6	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
7	The eggshell membrane: A potential biomaterial for corneal wound healing. Journal of Biomaterials Applications, 2021, 36, 912-929.	2.4	19
8	Quantifying water absorption of hygrothermally aged epoxies with terahertz time-domain spectroscopy. , 2021, , .		0
9	Graphene-based External Optoelectronic Terahertz Modulators for High Speed Wireless Communications. , 2021, , .		2
10	Review of Terahertz Pulsed Imaging for Pharmaceutical Film Coating Analysis. Sensors, 2020, 20, 1441.	3.8	43
11	Quantitative video-rate hydration imaging of Nafion proton exchange membranes with terahertz radiation. Journal of Power Sources, 2020, 450, 227665.	7.8	14
12	Through-substrate terahertz time-domain reflection spectroscopy for environmental graphene conductivity mapping. Applied Physics Letters, 2020, 116, .	3.3	19
13	Environmental graphene conductivity sensing using terahertz time-domain reflection spectroscopy. , 2020, , .		0
14	Studying pharmaceutical tablets mixing process inside a perforated pan-coater using in-line terahertz sensing. , 2020, , .		0
15	Observing liquid water build-up in proton exchange membrane fuel cells using terahertz imaging and high-resolution optical gauging. , 2020, , .		0
16	Differentiating Generic versus Branded Pharmaceutical Tablets Using Ultra-High-Resolution Optical Coherence Tomography. Coatings, 2019, 9, 326.	2.6	4
17	Quantitative video-rate hydration imaging of NafionÂ® proton exchange membranes with THz radiation. , 2019, , .		0
18	Investigating liquid water distribution in Nafion polymer electrolyte membrane with terahertz imaging. , 2019, , .		0

#	Article	IF	Citations
19	Short-time Fourier Transform with Adaptive Windowing Size for THz-TDS. , 2019, , .		0
20	Sub-surface imaging of soiled cotton fabric using full-field optical coherence tomography. Optics Express, 2019, 27, 13951.	3.4	7
21	A Review of the Applications of OCT for Analysing Pharmaceutical Film Coatings. Applied Sciences (Switzerland), 2018, 8, 2700.	2.5	28
22	Steps towards numerical verification of the terahertz inâ€line measurement of tablet mixing by means of discrete element modelling. IET Microwaves, Antennas and Propagation, 2018, 12, 1775-1779.	1.4	4
23	A quantitative comparison of in-line coating thickness distributions obtained from a pharmaceutical tablet mixing process using discrete element method and terahertz pulsed imaging. Chemical Engineering Science, 2018, 192, 34-45.	3.8	22
24	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
25	Contactless graphene conductivity mapping on a wide range of substrates with terahertz time-domain reflection spectroscopy. Scientific Reports, 2017, 7, 10625.	3.3	35
26	Pharmaceutical Film Coating Catalog for Spectral Domain Optical Coherence Tomography. Journal of Pharmaceutical Sciences, 2017, 106, 3171-3176.	3.3	25
27	Investigating Intra-Tablet Coating Uniformity With Spectral-Domain Optical Coherence Tomography. Journal of Pharmaceutical Sciences, 2017, 106, 546-553.	3.3	20
28	Validating terahertz in-line measurement of tablet mixing with discrete element modelling. , 2017, , .		1
29	Graphene based plasmonic terahertz amplitude modulator operating above 100â€‰MHz. Applied Physics Letters, 2016, 108, .	3.3	83
30	Studying the pharmaceutical film coating process with terahertz sensing, optical coherence tomography and numerical modelling. , 2016, , .		2
31	Fast terahertz optoelectronic amplitude modulator based on plasmonic metamaterial antenna arrays and graphene. Proceedings of SPIE, 2016, , .	0.8	2
32	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
33	Fast Modulation of Terahertz Quantum Cascade Lasers Using Graphene Loaded Plasmonic Antennas. ACS Photonics, 2016, 3, 464-470.	6.6	37
34	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
35	Diffusion and Swelling Measurements in Pharmaceutical Powder Compacts Using Terahertz Pulsed Imaging. Journal of Pharmaceutical Sciences, 2015, 104, 1658-1667.	3.3	53
36	Investigation of pharmaceutical film coating process with terahertz sensing, optical coherence tomography and numerical modelling. , 2015, , .		0

#	Article	IF	Citations
37	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
38	Calendering as a direct shaping tool for the continuous production of fixed-dose combination products via co-extrusion. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 96, 125-131.	4.3	21
39	Determination of Water Content in Dehydrated Mammalian Cells Using Terahertz Pulsed Imaging: A Feasibility Study. Current Pharmaceutical Biotechnology, 2015, 17, 200-207.	1.6	16
40	Aqueous diffusion in porous polymer powder compacts studied by terahertz pulsed imaging. , 2013, , .		0
41	Dual-Mode Terahertz Time-Domain Spectroscopy System. IEEE Transactions on Terahertz Science and Technology, 2013, 3, 216-220.	3.1	16
42	Studying pharmaceutical tablet coating process with real-time terahertz in-line sensing. , 2013, , .		1
43	Distributed source model for the full-wave electromagnetic simulation of nonlinear terahertz generation. Optics Express, 2012, 20, 18397.	3.4	17
44	Low-cost ultra-thin broadband terahertz beam-splitter. Optics Express, 2012, 20, 4968.	3.4	25
45	Power scaling of ultra-thin terahertz beam-splitters. , 2012, , .		0
46	Sub-diffraction thin-film sensing with planar terahertz metamaterials. Optics Express, 2012, 20, 3345.	3.4	100
47	Elastomeric silicone substrates for terahertz fishnet metamaterials. Applied Physics Letters, 2012, 100, .	3.3	70
48	Near-field & far-field modelling of a sub-wavelength THz source. , 2011, , .		0
49	Comprehensive modeling of THz microscope with a sub-wavelength source. Optics Express, 2011, 19, 5327.	3.4	10
50	Comparative simulation study of ZnTe heating effects in focused THz radiation generation. , 2010, , .		0
51	Modelling of sub-wavelength THz sources as Gaussian apertures. Optics Express, 2010, 18, 17672.	3.4	20
52	Effect of crystal thickness in localized terahertz generation via optical rectification in ZnTe — Preliminary investigation. , 2009, , .		0
53	Uncertainty in terahertz time-domain spectroscopy measurement. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 1059.	2.1	142
54	Gas recognition with terahertz time-domain spectroscopy and reference-free spectrum: A preliminary study. , 2008, , .		4

#	Article	IF	Citations
55	Analysis of measurement uncertainty in THz-TDS. Proceedings of SPIE, 2007, , .	0.8	21
56	Design and degradation modelling through artificial neural networks. International Journal of Manufacturing Research, 2007, 2, 97.	0.2	2
57	THz time-domain spectroscopy uncertainties. , 2007, , .		0
58	Gas recognition with terahertz time-domain spectroscopy and spectral catalog: a preliminary study. Proceedings of SPIE, 2007, , .	0.8	17
59	T-Ray Sensing and Imaging. Proceedings of the IEEE, 2007, 95, 1528-1558.	21.3	154
60	Review of THz near-field methods. , 2006, , .		16
61	THz near-field microscopy - A review. , 2006, , .		0