

# Axel Zeitler

## List of Publications by Citations

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228  
papers

7,739  
citations

47  
h-index

79  
g-index

318  
ext. papers

9,244  
ext. citations

5  
avg, IF

6.18  
L-index

#	Paper	IF	Citations
228	The 2017 terahertz science and technology roadmap. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 043001	16.4	724
227	Tuning the acid/base properties of nanocarbons by functionalization via amination. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 9616-30	16.4	495
226	Using terahertz pulsed spectroscopy to quantify pharmaceutical polymorphism and crystallinity. <i>Journal of Pharmaceutical Sciences</i> , <b>2005</b> , 94, 837-46	3.9	266
225	Terahertz pulsed spectroscopy and imaging in the pharmaceutical setting--a review. <i>Journal of Pharmacy and Pharmacology</i> , <b>2007</b> , 59, 209-23	4.8	254
224	Analysis of coating structures and interfaces in solid oral dosage forms by three dimensional terahertz pulsed imaging. <i>Journal of Pharmaceutical Sciences</i> , <b>2007</b> , 96, 330-40	3.9	146
223	Understanding the influence of polymorphism on phonon spectra: lattice dynamics calculations and terahertz spectroscopy of carbamazepine. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 447-56	3.4	145
222	A Review of Disintegration Mechanisms and Measurement Techniques. <i>Pharmaceutical Research</i> , <b>2017</b> , 34, 890-917	4.5	132
221	Analysis of sustained-release tablet film coats using terahertz pulsed imaging. <i>Journal of Controlled Release</i> , <b>2007</b> , 119, 253-61	11.7	127
220	In-vitro tomography and non-destructive imaging at depth of pharmaceutical solid dosage forms. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2009</b> , 71, 2-22	5.7	123
219	Solvent effects in the hydrogenation of 2-butanone. <i>Journal of Catalysis</i> , <b>2012</b> , 289, 30-41	7.3	119
218	Characterization of temperature-induced phase transitions in five polymorphic forms of sulfathiazole by terahertz pulsed spectroscopy and differential scanning calorimetry. <i>Journal of Pharmaceutical Sciences</i> , <b>2006</b> , 95, 2486-98	3.9	115
217	Terahertz time-domain and low-frequency Raman spectroscopy of organic materials. <i>Applied Spectroscopy</i> , <b>2015</b> , 69, 1-25	3.1	113
216	Correlating thermodynamic and kinetic parameters with amorphous stability. <i>European Journal of Pharmaceutical Sciences</i> , <b>2009</b> , 37, 492-8	5.1	111
215	Drug hydrate systems and dehydration processes studied by terahertz pulsed spectroscopy. <i>International Journal of Pharmaceutics</i> , <b>2007</b> , 334, 78-84	6.5	111
214	Low-bias terahertz amplitude modulator based on split-ring resonators and graphene. <i>ACS Nano</i> , <b>2014</b> , 8, 2548-54	16.7	106
213	Non-destructive quantification of pharmaceutical tablet coatings using terahertz pulsed imaging and optical coherence tomography. <i>Optics and Lasers in Engineering</i> , <b>2011</b> , 49, 361-365	4.6	102
212	Direct evidence to support the restriction of intramolecular rotation hypothesis for the mechanism of aggregation-induced emission: temperature resolved terahertz spectra of tetraphenylethene. <i>Materials Horizons</i> , <b>2014</b> , 1, 251-258	14.4	101

211	Terahertz in-line sensor for direct coating thickness measurement of individual tablets during film coating in real-time. <i>Journal of Pharmaceutical Sciences</i> , <b>2011</b> , 100, 1535-44	3.9	99
210	Mesoscopic structuring and dynamics of alcohol/water solutions probed by terahertz time-domain spectroscopy and pulsed field gradient nuclear magnetic resonance. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 10156-66	3.4	89
209	Characterizing the conversion kinetics of carbamazepine polymorphs to the dihydrate in aqueous suspension using Raman spectroscopy. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2006</b> , 40, 271-80	3.5	89
208	Testing the Sensitivity of Terahertz Spectroscopy to Changes in Molecular and Supramolecular Structure: A Study of Structurally Similar Cocrystals. <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 1452-1460	3.5	83
207	Predicting Crystallization of Amorphous Drugs with Terahertz Spectroscopy. <i>Molecular Pharmaceutics</i> , <b>2015</b> , 12, 3062-8	5.6	78
206	Terahertz Sensor for Non-Contact Thickness and Quality Measurement of Automobile Paints of Varying Complexity. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2014</b> , 4, 432-439	3.4	75
205	Applications of terahertz pulsed imaging to sustained-release tablet film coating quality assessment and dissolution performance. <i>Journal of Controlled Release</i> , <b>2008</b> , 127, 79-87	11.7	74
204	Chasing the "Killer" Phonon Mode for the Rational Design of Low-Disorder, High-Mobility Molecular Semiconductors. <i>Advanced Materials</i> , <b>2019</b> , 31, e1902407	24	73
203	Three-dimensional imaging of optically opaque materials using nonionizing terahertz radiation. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2008</b> , 25, 3120-33	1.8	70
202	Temperature dependent terahertz pulsed spectroscopy of carbamazepine. <i>Thermochimica Acta</i> , <b>2005</b> , 436, 71-77	2.9	67
201	Active coke: Carbonaceous materials as catalysts for alkane dehydrogenation. <i>Journal of Catalysis</i> , <b>2010</b> , 269, 329-339	7.3	66
200	A study into the effect of subtle structural details and disorder on the terahertz spectrum of crystalline benzoic acid. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 5329-40	3.6	63
199	Analysis of the hydration water around bovine serum albumin using terahertz coherent synchrotron radiation. <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 83-8	2.8	61
198	Characterisation of pore structures of pharmaceutical tablets: A review. <i>International Journal of Pharmaceutics</i> , <b>2018</b> , 538, 188-214	6.5	60
197	Graphene based plasmonic terahertz amplitude modulator operating above 100 MHz. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 171101	3.4	60
196	The Disintegration Process in Microcrystalline Cellulose Based Tablets, Part 1: Influence of Temperature, Porosity and Superdisintegrants. <i>Journal of Pharmaceutical Sciences</i> , <b>2015</b> , 104, 3440-50	3.9	59
195	Analysis of 3D Prints by X-ray Computed Microtomography and Terahertz Pulsed Imaging. <i>Pharmaceutical Research</i> , <b>2017</b> , 34, 1037-1052	4.5	58
194	Glass-Transition Temperature of the Relaxation as the Major Predictive Parameter for Recrystallization of Neat Amorphous Drugs. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 2803-2808	3.4	58

193	Direct measurement of molecular mobility and crystallisation of amorphous pharmaceuticals using terahertz spectroscopy. <i>Advanced Drug Delivery Reviews</i> , <b>2016</b> , 100, 147-57	18.5	56
192	Terahertz pulsed imaging as an analytical tool for sustained-release tablet film coating. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2009</b> , 71, 117-23	5.7	56
191	Theoretical analysis of the solid-state terahertz spectrum of the high explosive RDX. <i>Chemical Physics Letters</i> , <b>2008</b> , 463, 84-89	2.5	56
190	Hardness and density distributions of pharmaceutical tablets measured by terahertz pulsed imaging. <i>Journal of Pharmaceutical Sciences</i> , <b>2013</b> , 102, 2179-86	3.9	55
189	The Role of Configurational Entropy in Amorphous Systems. <i>Pharmaceutics</i> , <b>2010</b> , 2, 224-244	6.4	54
188	Detection of porosity of pharmaceutical compacts by terahertz radiation transmission and light reflection measurement techniques. <i>International Journal of Pharmaceutics</i> , <b>2014</b> , 465, 70-6	6.5	51
187	The influence of various excipients on the conversion kinetics of carbamazepine polymorphs in aqueous suspension. <i>Journal of Pharmacy and Pharmacology</i> , <b>2007</b> , 59, 193-201	4.8	51
186	Thermal Decoupling of Molecular-Relaxation Processes from the Vibrational Density of States at Terahertz Frequencies in Supercooled Hydrogen-Bonded Liquids. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 1968-72	6.4	49
185	Relaxation and crystallization of amorphous carbamazepine studied by terahertz pulsed spectroscopy. <i>Journal of Pharmaceutical Sciences</i> , <b>2007</b> , 96, 2703-9	3.9	49
184	Prediction of dissolution time and coating thickness of sustained release formulations using Raman spectroscopy and terahertz pulsed imaging. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2012</b> , 80, 690-7	5.7	48
183	Measurement of the Intertablet Coating Uniformity of a Pharmaceutical Pan Coating Process With Combined Terahertz and Optical Coherence Tomography In-Line Sensing. <i>Journal of Pharmaceutical Sciences</i> , <b>2017</b> , 106, 1075-1084	3.9	47
182	Crystallization and phase changes in paracetamol from the amorphous solid to the liquid phase. <i>Molecular Pharmaceutics</i> , <b>2014</b> , 11, 1326-34	5.6	47
181	Validation of Terahertz coating thickness measurements using X-ray microtomography. <i>Molecular Pharmaceutics</i> , <b>2012</b> , 9, 3551-9	5.6	47
180	Intermolecular anharmonicity in molecular crystals: interplay between experimental low-frequency dynamics and quantum quasi-harmonic simulations of solid purine. <i>Chemical Communications</i> , <b>2017</b> , 53, 3781-3784	5.8	46
179	Characterization of the Pore Structure of Functionalized Calcium Carbonate Tablets by Terahertz Time-Domain Spectroscopy and X-Ray Computed Microtomography. <i>Journal of Pharmaceutical Sciences</i> , <b>2017</b> , 106, 1586-1595	3.9	44
178	Quantifying Pharmaceutical Film Coating with Optical Coherence Tomography and Terahertz Pulsed Imaging: An Evaluation. <i>Journal of Pharmaceutical Sciences</i> , <b>2015</b> , 104, 3377-85	3.9	42
177	The significance of the amorphous potential energy landscape for dictating glassy dynamics and driving solid-state crystallisation. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 30039-30047	3.6	41
176	Terahertz and far infrared spectroscopy of alanine-rich peptides having variable ellipticity. <i>Optics Express</i> , <b>2010</b> , 18, 27431-44	3.3	41

175	Solid-state transition mechanism in carbamazepine polymorphs by time-resolved terahertz spectroscopy. <i>ChemPhysChem</i> , <b>2007</b> , 8, 1924-7	3.2	41
174	High-birefringence nematic liquid crystal for broadband THz applications. <i>Liquid Crystals</i> , <b>2016</b> , 43, 955-963	3.2	40
173	Investigation of the terahertz vibrational modes of ZIF-8 and ZIF-90 with terahertz time-domain spectroscopy. <i>Chemical Communications</i> , <b>2015</b> , 51, 16037-40	5.8	39
172	Calibration-free in-line monitoring of pellet coating processes via optical coherence tomography. <i>Chemical Engineering Science</i> , <b>2015</b> , 125, 200-208	4.4	39
171	Optical coherence tomography as a novel tool for in-line monitoring of a pharmaceutical film-coating process. <i>European Journal of Pharmaceutical Sciences</i> , <b>2014</b> , 55, 58-67	5.1	38
170	Monitoring the film coating unit operation and predicting drug dissolution using terahertz pulsed imaging. <i>Journal of Pharmaceutical Sciences</i> , <b>2009</b> , 98, 4866-76	3.9	36
169	Non-destructive Determination of Disintegration Time and Dissolution in Immediate Release Tablets by Terahertz Transmission Measurements. <i>Pharmaceutical Research</i> , <b>2017</b> , 34, 1012-1022	4.5	35
168	Comparisons of intra-tablet coating variability using DEM simulations, asymptotic limit models, and experiments. <i>Chemical Engineering Science</i> , <b>2015</b> , 131, 197-212	4.4	35
167	Examination of L-Glutamic Acid Polymorphs by Solid-State Density Functional Theory and Terahertz Spectroscopy. <i>Journal of Physical Chemistry A</i> , <b>2016</b> , 120, 7490-5	2.8	35
166	Measuring the Elasticity of Poly-L-Proline Helices with Terahertz Spectroscopy. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 6877-81	16.4	35
165	Diffusion and swelling measurements in pharmaceutical powder compacts using terahertz pulsed imaging. <i>Journal of Pharmaceutical Sciences</i> , <b>2015</b> , 104, 1658-67	3.9	35
164	Quantification of binary polymorphic mixtures of ranitidine hydrochloride using NIR spectroscopy. <i>Vibrational Spectroscopy</i> , <b>2006</b> , 41, 225-231	2.1	34
163	Probing hydrogen-bonding in binary liquid mixtures with terahertz time-domain spectroscopy: a comparison of Debye and absorption analysis. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 5999-6008	3.6	32
162	Mathematical modelling of liquid transport in swelling pharmaceutical immediate release tablets. <i>International Journal of Pharmaceutics</i> , <b>2017</b> , 526, 1-10	6.5	31
161	Impact of Processing Conditions on Inter-tablet Coating Thickness Variations Measured by Terahertz In-Line Sensing. <i>Journal of Pharmaceutical Sciences</i> , <b>2015</b> , 104, 2513-22	3.9	31
160	Non-destructive evaluation of polymer coating structures on pharmaceutical pellets using full-field optical coherence tomography. <i>Journal of Pharmaceutical Sciences</i> , <b>2014</b> , 103, 161-6	3.9	31
159	Accurate determination of optical coefficients from chemical samples using terahertz time-domain spectroscopy and effective medium theory. <i>Optics Letters</i> , <b>2009</b> , 34, 3722-4	3	31
158	Fast Modulation of Terahertz Quantum Cascade Lasers Using Graphene Loaded Plasmonic Antennas. <i>ACS Photonics</i> , <b>2016</b> , 3, 464-470	6.3	30

157	The Use of Terahertz Spectroscopy as a Sensitive Probe in Discriminating the Electronic Properties of Structurally Similar Multi-Walled Carbon Nanotubes. <i>Advanced Materials</i> , <b>2009</b> , 21, 3953-3957	24	30
156	Understanding the Dielectric Properties of Heat-Treated Carbon Nanofibers at Terahertz Frequencies: a New Perspective on the Catalytic Activity of Structured Carbonaceous Materials. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 10554-10559	3.8	30
155	Investigating dehydration from compacts using terahertz pulsed, Raman, and near-infrared spectroscopy. <i>Applied Spectroscopy</i> , <b>2007</b> , 61, 1265-74	3.1	30
154	A comparison of quality control methods for active coating processes. <i>International Journal of Pharmaceutics</i> , <b>2012</b> , 439, 289-95	6.5	29
153	Fast Room-Temperature Detection of Terahertz Quantum Cascade Lasers with Graphene-Loaded Bow-Tie Plasmonic Antenna Arrays. <i>ACS Photonics</i> , <b>2016</b> , 3, 1747-1753	6.3	29
152	Non-contact weight measurement of flat-faced pharmaceutical tablets using terahertz transmission pulse delay measurements. <i>International Journal of Pharmaceutics</i> , <b>2014</b> , 476, 16-22	6.5	28
151	Investigating dissolution performance critical areas on coated tablets: a case study using terahertz pulsed imaging. <i>Journal of Pharmaceutical Sciences</i> , <b>2010</b> , 99, 392-402	3.9	28
150	Glassy dynamics of sorbitol solutions at terahertz frequencies. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 11931-42	3.6	27
149	In-Line Monitoring of a Pharmaceutical Pan Coating Process by Optical Coherence Tomography. <i>Journal of Pharmaceutical Sciences</i> , <b>2015</b> , 104, 2531-40	3.9	27
148	Resolving the Origins of Crystalline Anharmonicity Using Terahertz Time-Domain Spectroscopy and ab Initio Simulations. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 11733-11739	3.4	26
147	Terahertz study on porosity and mass fraction of active pharmaceutical ingredient of pharmaceutical tablets. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2016</b> , 105, 122-33	5.7	26
146	Using modified Kramers-Kronig relations to test transmission spectra of porous media in THz-TDS. <i>Optics Letters</i> , <b>2010</b> , 35, 631-3	3	26
145	Uncovering the Connection Between Low-Frequency Dynamics and Phase Transformation Phenomena in Molecular Solids. <i>Physical Review Letters</i> , <b>2018</b> , 120, 196002	7.4	25
144	(19) F NMR Spectroscopy as a Highly Sensitive Method for the Direct Monitoring of Confined Crystallization within Nanoporous Materials. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 8904-8	16.4	25
143	Probing the Mechanochemistry of Metal-Organic Frameworks with Low-Frequency Vibrational Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 27442-27450	3.8	25
142	Structure and dynamics of aqueous 2-propanol: a THz-TDS, NMR and neutron diffraction study. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 30481-91	3.6	24
141	Probing phase transitions in simvastatin with terahertz time-domain spectroscopy. <i>Molecular Pharmaceutics</i> , <b>2015</b> , 12, 810-5	5.6	24
140	Supercritical impregnation of polymer matrices spatially confined in microcontainers for oral drug delivery: Effect of temperature, pressure and time. <i>Journal of Supercritical Fluids</i> , <b>2016</b> , 107, 145-152	4.2	23

139	Terahertz pulsed spectroscopic imaging using optimized binary masks. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 231112	3.4	22
138	Revisiting the Thermodynamic Stability of Indomethacin Polymorphs with Low-Frequency Vibrational Spectroscopy and Quantum Mechanical Simulations. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 6513-6520	3.5	22
137	Evaluating the effect of coating equipment on tablet film quality using terahertz pulsed imaging. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2013</b> , 85, 1095-102	5.7	21
136	Industrial Applications of Terahertz Imaging. <i>Springer Series in Optical Sciences</i> , <b>2012</b> , 451-489	0.5	21
135	Evaluation of critical process parameters for intra-tablet coating uniformity using terahertz pulsed imaging. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2013</b> , 85, 1122-9	5.7	21
134	Atomic charge distribution in sodosilicate glasses from terahertz time-domain spectroscopy. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	21
133	Determination of complex refractive index of thin metal films from terahertz time-domain spectroscopy. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 053110	2.5	21
132	Concomitant polymorphism and the martensitic-like transformation of an organic crystal. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 28502-28506	3.6	20
131	Insights into the structural dynamics of poly lactic-co-glycolic acid at terahertz frequencies. <i>Polymer Chemistry</i> , <b>2019</b> , 10, 351-361	4.9	20
130	A new perspective on catalytic dehydrogenation of ethylbenzene: the influence of side-reactions on catalytic performance. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 3782-3797	5.5	20
129	Unraveling the Interfacial Structure-Performance Correlation of Flexible Metal-Organic Framework Membranes on Polymeric Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 5570-5577	9.5	20
128	Fast and non-destructive pore structure analysis using terahertz time-domain spectroscopy. <i>International Journal of Pharmaceutics</i> , <b>2018</b> , 537, 102-110	6.5	19
127	Contactless graphene conductivity mapping on a wide range of substrates with terahertz time-domain reflection spectroscopy. <i>Scientific Reports</i> , <b>2017</b> , 7, 10625	4.9	19
126	Pharmaceutical Film Coating Catalog for Spectral Domain Optical Coherence Tomography. <i>Journal of Pharmaceutical Sciences</i> , <b>2017</b> , 106, 3171-3176	3.9	19
125	Extracting accurate optical parameters from glasses using terahertz time-domain spectroscopy. <i>Journal of Non-Crystalline Solids</i> , <b>2009</b> , 355, 1824-1827	3.9	19
124	Methyl-rotation dynamics in metal-organic frameworks probed with terahertz spectroscopy. <i>Chemical Communications</i> , <b>2018</b> , 54, 5776-5779	5.8	19
123	Hot-melt extrusion process impact on polymer choice of glyburide solid dispersions: The effect of wettability and dissolution. <i>International Journal of Pharmaceutics</i> , <b>2019</b> , 559, 245-254	6.5	17
122	Review of real-time release testing of pharmaceutical tablets: State-of-the art, challenges and future perspective. <i>International Journal of Pharmaceutics</i> , <b>2020</b> , 582, 119353	6.5	17

121	Terahertz response of organic amorphous systems: experimental concerns and perspectives. <i>Philosophical Magazine</i> , <b>2016</b> , 96, 842-853	1.6	17
120	Tracking Dehydration Mechanisms in Crystalline Hydrates with Molecular Dynamics Simulations. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 5017-5022	3.5	17
119	Investigating Intra-Tablet Coating Uniformity With Spectral-Domain Optical Coherence Tomography. <i>Journal of Pharmaceutical Sciences</i> , <b>2017</b> , 106, 546-553	3.9	17
118	A Review of the Applications of OCT for Analysing Pharmaceutical Film Coatings. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 2700	2.6	17
117	Simultaneous investigation of the liquid transport and swelling performance during tablet disintegration. <i>International Journal of Pharmaceutics</i> , <b>2020</b> , 584, 119380	6.5	16
116	Resolving the rapid water absorption of porous functionalised calcium carbonate powder compacts by terahertz pulsed imaging. <i>Chemical Engineering Research and Design</i> , <b>2018</b> , 132, 1082-1090	5.5	16
115	Characterization of Heterogeneity and Spatial Distribution of Phases in Complex Solid Dispersions by Thermal Analysis by Structural Characterization and X-ray Micro Computed Tomography. <i>Pharmaceutical Research</i> , <b>2017</b> , 34, 971-989	4.5	15
114	Quantification of Inkjet-Printed Pharmaceuticals on Porous Substrates Using Raman Spectroscopy and Near-Infrared Spectroscopy. <i>AAPS PharmSciTech</i> , <b>2019</b> , 20, 207	3.9	15
113	Terahertz-Based Porosity Measurement of Pharmaceutical Tablets: a Tutorial. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2020</b> , 41, 450-469	2.2	15
112	A non-destructive method for quality control of the pellet distribution within a MUPS tablet by terahertz pulsed imaging. <i>European Journal of Pharmaceutical Sciences</i> , <b>2018</b> , 111, 549-555	5.1	15
111	Evaluation of critical process parameters for inter-tablet coating uniformity of active-coated GITS using Terahertz Pulsed Imaging. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2014</b> , 88, 434-442	5.7	15
110	Advances in terahertz time-domain spectroscopy of pharmaceutical solids: A review. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2021</b> , 139, 116272	14.6	15
109	A structure parameter for porous pharmaceutical tablets obtained with the aid of Wiener bounds for effective permittivity and terahertz time-delay measurement. <i>International Journal of Pharmaceutics</i> , <b>2016</b> , 506, 87-92	6.5	15
108	On the role of API in determining porosity, pore structure and bulk modulus of the skeletal material in pharmaceutical tablets formed with MCC as sole excipient. <i>International Journal of Pharmaceutics</i> , <b>2017</b> , 526, 321-331	6.5	14
107	Noninvasive porosity measurement of biconvex tablets using terahertz pulses. <i>International Journal of Pharmaceutics</i> , <b>2016</b> , 509, 439-443	6.5	14
106	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> , <b>2018</b> , 192, 34-45	4.4	14
105	Terahertz optical modulator based on metamaterial split-ring resonators and graphene. <i>Optical Engineering</i> , <b>2014</b> , 53, 057108	1.1	14
104	Broad spectrum measurement of the birefringence of an isothiocyanate based liquid crystal. <i>Applied Optics</i> , <b>2010</b> , 49, 5212-6	0.2	14



103	Estimation of Young's modulus of pharmaceutical tablet obtained by terahertz time-delay measurement. <i>International Journal of Pharmaceutics</i> , <b>2015</b> , 489, 100-5	6.5	13
102	Review of Terahertz Pulsed Imaging for Pharmaceutical Film Coating Analysis. <i>Sensors</i> , <b>2020</b> , 20,	3.8	13
101	On the Correlation of Effective Terahertz Refractive Index and Average Surface Roughness of Pharmaceutical Tablets. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2016</b> , 37, 776-785	2.2	13
100	The enhancement of the catalytic performance of CrO <sub>x</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts for ethylbenzene dehydrogenation through tailored coke deposition. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 1120-1133	5.5	13
99	Automated pharmaceutical tablet coating layer evaluation of optical coherence tomography images. <i>Measurement Science and Technology</i> , <b>2015</b> , 26, 035701	2	13
98	Graphene-loaded metal wire grating for deep and broadband THz modulation in total internal reflection geometry. <i>Photonics Research</i> , <b>2018</b> , 6, 1151	6	13
97	Freezing of Aqueous Solutions and Chemical Stability of Amorphous Pharmaceuticals: Water Clusters Hypothesis. <i>Journal of Pharmaceutical Sciences</i> , <b>2019</b> , 108, 36-49	3.9	13
96	In-line quality control of moving objects by means of spectral-domain OCT. <i>Optics and Lasers in Engineering</i> , <b>2014</b> , 59, 1-10	4.6	12
95	Critical factors in the measurement of tablet film coatings using terahertz pulsed imaging. <i>Journal of Pharmaceutical Sciences</i> , <b>2013</b> , 102, 1813-1824	3.9	12
94	Pharmaceutical Terahertz Spectroscopy and Imaging. <i>Advances in Delivery Science and Technology</i> , <b>2016</b> , 171-222		12
93	3D Bioelectronic Model of the Human Intestine. <i>Advanced Biology</i> , <b>2021</b> , 5, 2000306		12
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