Prince Bawuah

List of Publications by Year
in descending order

35 papers	684 citations	516710 16 h-index	552781 26 g-index
35 all docs	35 docs citations	35 times ranked	466 citing authors

#	Article	IF	Citations
1	A Fast and Non-destructive Terahertz Dissolution Assay for Immediate Release Tablets. Journal of Pharmaceutical Sciences, 2021, 110, 2083-2092.	3.3	14
2	Terahertz pulsed imaging as a new method for investigating the liquid transport kinetics of Î±-alumina powder compacts. Chemical Engineering Research and Design, 2021, 165, 386-397.	5.6	9
3	Sensing Water Absorption in Hygrothermally Aged Epoxies with Terahertz Time-Domain Spectroscopy. Analytical Chemistry, 2021, 93, 2449-2455.	6.5	20
4	Passive tunable and polarization-insensitive fan-like metamaterial absorber in the visible spectrum. Journal of the Optical Society of America B: Optical Physics, 2021, 38, C1.	2.1	4
5	Advances in terahertz time-domain spectroscopy of pharmaceutical solids: A review. TrAC - Trends in Analytical Chemistry, 2021, 139, 116272.	11.4	57
6	Terahertz time-domain spectroscopy for powder compact porosity and pore shape measurements: An error analysis of the anisotropic bruggeman model. International Journal of Pharmaceutics: X, 2021, 3, 100079.	1.6	2
7	Right-Angle Shaped Elements as Dual-Band Metamaterial Absorber in Terahertz. Photonic Sensors, 2020, 10, 233-241.	5.0	11
8	Simultaneous investigation of the liquid transport and swelling performance during tablet disintegration. International Journal of Pharmaceutics, 2020, 584, 119380.	5.2	27
9	Terahertz-Based Porosity Measurement of Pharmaceutical Tablets: a Tutorial. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 450-469.	2.2	42
10	Plasmonic Implanted Nanogrooves for Optical Beaming. Scientific Reports, 2019, 9, 391.	3.3	5
11	Pyramid-shaped plasmonic slit for optical transmission. Optical Materials, 2019, 88, 266-270.	3.6	2
12	Swastika-shaped microslots as a dual-band metamaterial absorber in the terahertz range. OSA Continuum, 2019, 2, 216.	1.8	2
13	A prototype of an optical sensor for the identification of diesel oil adulterated by kerosene. Journal of the European Optical Society-Rapid Publications, 2018, 14, .	1.9	13
14	Characterisation of pore structures of pharmaceutical tablets: A review. International Journal of Pharmaceutics, 2018, 538, 188-214.	5.2	90
15	Fast and non-destructive pore structure analysis using terahertz time-domain spectroscopy. International Journal of Pharmaceutics, 2018, 537, 102-110.	5.2	27
16	Resolving the rapid water absorption of porous functionalised calcium carbonate powder compacts by terahertz pulsed imaging. Chemical Engineering Research and Design, 2018, 132, 1082-1090.	5.6	28
17	Investigating elastic relaxation effects on the optical properties of functionalised calcium carbonate compacts using optics-based Heckel analysis. International Journal of Pharmaceutics, 2018, 544, 278-284.	5.2	5
18	Terahertz absorption spectra of commonly used antimalarial drugs. Optical Review, 2018, 25, 444-449.	2.0	6

#	ARTICLE	IF	CITATIONS
19	Highly polarization and wide-angle insensitive metamaterial absorber for terahertz applications. Optical Materials, 2018, 84, 447-452.	3.6	15
20	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. International Journal of Pharmaceutics, 2017, 526, 321-331.	5.2	17
21	Optics-based compressibility parameter for pharmaceutical tablets obtained with the aid of the terahertz refractive index. International Journal of Pharmaceutics, 2017, 525, 85-91.	5.2	7
22	Characterization of the Pore Structure of Functionalized Calcium Carbonate Tablets by Terahertz Time-Domain Spectroscopy and X-Ray Computed Microtomography. Journal of Pharmaceutical Sciences, 2017, 106, 1586-1595.	3.3	59
23	Gloss measurement in detection of surface quality of pharmaceutical tablets: a case study of screening of genuine and counterfeit antimalaria tablets. Journal of the European Optical Society-Rapid Publications, 2017, 13, .	1.9	8
24	Analysis of anisotropic pore structures using terahertz spectroscopy and imaging. , 2017, , .		1
25	A structure parameter for porous pharmaceutical tablets obtained with the aid of Wiener bounds for effective permittivity and terahertz time-delay measurement. International Journal of Pharmaceutics, 2016, 506, 87-92.	5.2	16
26	On the Correlation of Effective Terahertz Refractive Index and Average Surface Roughness of Pharmaceutical Tablets. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 776-785.	2.2	17
27	Terahertz study on porosity and mass fraction of active pharmaceutical ingredient of pharmaceutical tablets. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 105, 122-133.	4.3	30
28	Noninvasive porosity measurement of biconvex tablets using terahertz pulses. International Journal of Pharmaceutics, 2016, 509, 439-443.	5.2	18
29	A terahertz time-domain study on the estimation of opto-mechanical properties of pharmaceutical tablets using the Hashinâ€“Shtrikman bounds for refractive index: a case study of microcrystalline cellulose and starch acetate compacts. Optical Review, 2016, 23, 502-509.	2.0	7
30	Estimation of Youngâ€™s modulus of pharmaceutical tablet obtained by terahertz time-delay measurement. International Journal of Pharmaceutics, 2015, 489, 100-105.	5.2	18
31	A Tape Method for Fast Characterization and Identification of Active Pharmaceutical Ingredients in the 2-18 THz Spectral Range. Journal of Infrared, Millimeter, and Terahertz Waves, 2015, 36, 278-290.	2.2	6
32	Detection of porosity of pharmaceutical compacts by terahertz radiation transmission and light reflection measurement techniques. International Journal of Pharmaceutics, 2014, 465, 70-76.	5.2	56
33	Far infrared (THz) absorption spectra for the quantitative differentiation of calcium carbonate crystal structures: Exemplified in mixtures and in paper coatings. Optical Review, 2014, 21, 373-377.	2.0	3
34	Non-contact weight measurement of flat-faced pharmaceutical tablets using terahertz transmission pulse delay measurements. International Journal of Pharmaceutics, 2014, 476, 16-22.	5.2	31
35	On the complex refractive index of N-doped TiO2 nanospheres and nanowires in the terahertz spectral region. Vibrational Spectroscopy, 2013, 68, 241-245.	2.2	11