

# Prince Bawuah

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | Characterisation of pore structures of pharmaceutical tablets: A review. <i>International Journal of Pharmaceutics</i> , 2018, 538, 188-214.  | 5.2  | 90        |
| 2  | 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> , 2017, 106, 1586-1595.        | 3.3  | 59        |
| 3  | Advances in terahertz time-domain spectroscopy of pharmaceutical solids: A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 139, 116272.  | 11.4 | 57        |
| 4  | Detection of porosity of pharmaceutical compacts by terahertz radiation transmission and light reflection measurement techniques. <i>International Journal of Pharmaceutics</i> , 2014, 465, 70-76.                                   | 5.2  | 56        |
| 5  | Terahertz-Based Porosity Measurement of Pharmaceutical Tablets: a Tutorial. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2020, 41, 450-469.  | 2.2  | 42        |
| 6  | Non-contact weight measurement of flat-faced pharmaceutical tablets using terahertz transmission pulse delay measurements. <i>International Journal of Pharmaceutics</i> , 2014, 476, 16-22.  | 5.2  | 31        |
| 7  | Terahertz study on porosity and mass fraction of active pharmaceutical ingredient of pharmaceutical tablets. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016, 105, 122-133.                                      | 4.3  | 30        |
| 8  | Resolving the rapid water absorption of porous functionalised calcium carbonate powder compacts by terahertz pulsed imaging. <i>Chemical Engineering Research and Design</i> , 2018, 132, 1082-1090.                                  | 5.6  | 28        |
| 9  | Fast and non-destructive pore structure analysis using terahertz time-domain spectroscopy. <i>International Journal of Pharmaceutics</i> , 2018, 537, 102-110.  | 5.2  | 27        |
| 10 | Simultaneous investigation of the liquid transport and swelling performance during tablet disintegration. <i>International Journal of Pharmaceutics</i> , 2020, 584, 119380.  | 5.2  | 27        |
| 11 | Sensing Water Absorption in Hygrothermally Aged Epoxies with Terahertz Time-Domain Spectroscopy. <i>Analytical Chemistry</i> , 2021, 93, 2449-2455.   | 6.5  | 20        |
| 12 | Estimation of Young's modulus of pharmaceutical tablet obtained by terahertz time-delay measurement. <i>International Journal of Pharmaceutics</i> , 2015, 489, 100-105.  | 5.2  | 18        |
| 13 | Noninvasive porosity measurement of biconvex tablets using terahertz pulses. <i>International Journal of Pharmaceutics</i> , 2016, 509, 439-443.  | 5.2  | 18        |
| 14 | On the Correlation of Effective Terahertz Refractive Index and Average Surface Roughness of Pharmaceutical Tablets. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2016, 37, 776-785.                                  | 2.2  | 17        |
| 15 | 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> , 2017, 526, 321-331. | 5.2  | 17        |
| 16 | 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> , 2016, 506, 87-92.     | 5.2  | 16        |
| 17 | Highly polarization and wide-angle insensitive metamaterial absorber for terahertz applications. <i>Optical Materials</i> , 2018, 84, 447-452.  | 3.6  | 15        |
| 18 | A Fast and Non-destructive Terahertz Dissolution Assay for Immediate Release Tablets. <i>Journal of Pharmaceutical Sciences</i> , 2021, 110, 2083-2092.   | 3.3  | 14        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | A prototype of an optical sensor for the identification of diesel oil adulterated by kerosene. <i>Journal of the European Optical Society-Rapid Publications</i> , 2018, 14, .   | 1.9 | 13        |
| 20 | On the complex refractive index of N-doped TiO <sub>2</sub> nanospheres and nanowires in the terahertz spectral region. <i>Vibrational Spectroscopy</i> , 2013, 68, 241-245.   | 2.2 | 11        |
| 21 | Right-Angle Shaped Elements as Dual-Band Metamaterial Absorber in Terahertz. <i>Photonic Sensors</i> , 2020, 10, 233-241.  | 5.0 | 11        |
| 22 | Terahertz pulsed imaging as a new method for investigating the liquid transport kinetics of $\alpha$ -alumina powder compacts. <i>Chemical Engineering Research and Design</i> , 2021, 165, 386-397.   | 5.6 | 9         |
| 23 | Gloss measurement in detection of surface quality of pharmaceutical tablets: a case study of screening of genuine and counterfeit antimalaria tablets. <i>Journal of the European Optical Society-Rapid Publications</i> , 2017, 13, .   | 1.9 | 8         |
| 24 | A terahertz time-domain study on the estimation of opto-mechanical properties of pharmaceutical tablets using the Hashin-Shtrikman bounds for refractive index: a case study of microcrystalline cellulose and starch acetate compacts. <i>Optical Review</i> , 2016, 23, 502-509. | 2.0 | 7         |
| 25 | Optics-based compressibility parameter for pharmaceutical tablets obtained with the aid of the terahertz refractive index. <i>International Journal of Pharmaceutics</i> , 2017, 525, 85-91.   | 5.2 | 7         |
| 26 | A Tape Method for Fast Characterization and Identification of Active Pharmaceutical Ingredients in the 2-18 THz Spectral Range. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2015, 36, 278-290.   | 2.2 | 6         |
| 27 | Terahertz absorption spectra of commonly used antimalarial drugs. <i>Optical Review</i> , 2018, 25, 444-449.   | 2.0 | 6         |
| 28 | Investigating elastic relaxation effects on the optical properties of functionalised calcium carbonate compacts using optics-based Heckel analysis. <i>International Journal of Pharmaceutics</i> , 2018, 544, 278-284.  | 5.2 | 5         |
| 29 | Plasmonic Implanted Nanogrooves for Optical Beaming. <i>Scientific Reports</i> , 2019, 9, 391.   | 3.3 | 5         |
| 30 | Passive tunable and polarization-insensitive fan-like metamaterial absorber in the visible spectrum. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, C1.   | 2.1 | 4         |
| 31 | Far infrared (THz) absorption spectra for the quantitative differentiation of calcium carbonate crystal structures: Exemplified in mixtures and in paper coatings. <i>Optical Review</i> , 2014, 21, 373-377.  | 2.0 | 3         |
| 32 | Pyramid-shaped plasmonic slit for optical transmission. <i>Optical Materials</i> , 2019, 88, 266-270.  | 3.6 | 2         |
| 33 | Swastika-shaped microslots as a dual-band metamaterial absorber in the terahertz range. <i>OSA Continuum</i> , 2019, 2, 216.   | 1.8 | 2         |
| 34 | Terahertz time-domain spectroscopy for powder compact porosity and pore shape measurements: An error analysis of the anisotropic bruggeman model. <i>International Journal of Pharmaceutics: X</i> , 2021, 3, 100079.  | 1.6 | 2         |
| 35 | Analysis of anisotropic pore structures using terahertz spectroscopy and imaging. , 2017, , .  |     | 1         |