

# Andrew Andrew D Burnett

## List of Publications by Year in descending order

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41  
papers

1,059  
citations

567281

15  
h-index

580821

25  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1208  
citing authors

#	ARTICLE	IF	CITATIONS
1	All-Electronic Phase-Resolved THz Microscopy Using the Self-Mixing Effect in a Semiconductor Laser. ACS Photonics, 2021, 8, 1001-1006.	6.6	7
2	Wideband dielectric properties of silicon and glass substrates for terahertz integrated circuits and microsystems. Materials Research Express, 2021, 8, 056201.	1.6	14
3	Coherent terahertz microscopy of modal field distributions in micro-resonators. APL Photonics, 2021, 6, .	5.7	14
4	Development of Advanced Terahertz Optics Using Liquid Crystals. , 2021, , .		1
5	Exploring the Reliability of DFT Calculations of the Infrared and Terahertz Spectra of Sodium Peroxodisulfate. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 382-413.	2.2	14
6	Understanding the Effect of Dispersion Corrections on the Calculated Spectra of $\alpha$ -Lactose Monohydrate. , 2020, , .		0
7	Terahertz Dielectric Property Characterization of Photopolymers for Additive Manufacturing. IEEE Access, 2019, 7, 12339-12347.	4.2	37
8	Calculating the Complex Permittivity of Powdered Crystalline Materials. , 2019, , .		0
9	Photoconductive Arrays for High-Field Terahertz Generation. , 2019, , .		2
10	The Development of a Semtex-H Simulant for Terahertz Spectroscopy. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 325-338.	2.2	6
11	On-Chip Terahertz-Frequency Measurements of Liquids. Analytical Chemistry, 2017, 89, 7981-7987.	6.5	22
12	Investigation into free-space terahertz radiation from a LT-GaAs-on-quartz photoconductive emitter. , 2017, , .		0
13	Laser Feedback Interferometry as a Tool for Analysis of Granular Materials at Terahertz Frequencies: Towards Imaging and Identification of Plastic Explosives. Sensors, 2016, 16, 352.	3.8	27
14	Free-space terahertz radiation from a LT-GaAs-on-quartz large-area photoconductive emitter. Optics Express, 2016, 24, 26986.	3.4	21
15	PDielec: The calculation of infrared and terahertz absorption for powdered crystals. Journal of Computational Chemistry, 2016, 37, 1491-1504.	3.3	31
16	Integrated On-Chip THz Sensors for Fluidic Systems Fabricated Using Flexible Polyimide Films. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 619-624.	3.1	22
17	Diffuse-Reflectance Spectroscopy Using a Frequency-Switchable Terahertz Quantum Cascade Laser. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 341-347.	3.1	4
18	Probing temperature- and solvent-dependent protein dynamics using terahertz time-domain spectroscopy. Journal of Applied Crystallography, 2014, 47, 146-153.	4.5	4

#	ARTICLE	IF	CITATIONS
19	Spectroscopy of polycrystalline materials using thinned-substrate planar Goubau line at cryogenic temperatures. Lab on A Chip, 2013, 13, 4065.	6.0	25
20	Effect of Molecular Size and Particle Shape on the Terahertz Absorption of a Homologous Series of Tetraalkylammonium Salts. Analytical Chemistry, 2013, 85, 7926-7934.	6.5	14
21	Detection of terahertz frequency radiation via the photothermoelastic response of zincblende crystals. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 3151.	2.1	0
22	Optimization and application of on-chip terahertz Goubau lines. , 2013, , .		0
23	Spectroscopic analysis of powders through diffuse-reflectance imaging using a frequency-switchable terahertz quantum cascade laser. , 2013, , .		0
24	Terahertz time-domain spectroscopy of lysozyme and mouse urinary protein single crystals. , 2013, , .		1
25	Understanding the influence of morphology on the terahertz spectra of a powdered ionic crystalline system. , 2013, , .		0
26	Applying broadband terahertz time-domain spectroscopy to the analysis of crystalline proteins: a dehydration study. Journal of Applied Crystallography, 2011, 44, 129-133.	4.5	15
27	Calculation and Measurement of Terahertz Active Normal Modes in Crystalline PETN. ChemPhysChem, 2010, 11, 368-378.	2.1	30
28	Terahertz spectral measurements of a homologous organic series. , 2010, , .		0
29	Terahertz time-domain spectroscopy of protein single crystals. , 2010, , .		0
30	Calculation of terahertz active normal modes in organic crystals. , 2010, , .		0
31	Dual-frequency imaging using an electrically tunable terahertz quantum cascade laser. , 2009, , .		1
32	Comparison of near infrared laser excitation wavelengths and its influence on the interrogation of seized drugs of abuse by Raman spectroscopy. Journal of Raman Spectroscopy, 2009, 40, 1974-1983.	2.5	32
33	Broadband terahertz time-domain spectroscopy of drugs-of-abuse and the use of principal component analysis. Analyst, The, 2009, 134, 1658.	3.5	70
34	Dual-frequency imaging using an electrically tunable terahertz quantum cascade laser. Optics Express, 2009, 17, 20631.	3.4	42
35	Terahertz spectroscopy of explosives and drugs. Materials Today, 2008, 11, 18-26.	14.2	447
36	Absorption-sensitive diffuse reflection imaging of concealed powders using a terahertz quantum cascade laser. Optics Express, 2008, 16, 5997.	3.4	56

#	ARTICLE	IF	CITATIONS
37	Broadband terahertz time-domain spectroscopy of drugs-of-abuse mixtures and street samples. , 2008, , .		1
38	Excitation-density-dependent generation of broadband terahertz radiation in an asymmetrically excited photoconductive antenna. Optics Letters, 2007, 32, 2297.	3.3	52
39	Raman spectroscopic analysis of human remains from a seventh century cist burial on Anglesey, UK. Analytical and Bioanalytical Chemistry, 2007, 387, 821-828.	3.7	21
40	Analysis of drugs-of-abuse and explosives using terahertz time-domain and Raman spectroscopy. , 2006, , .		10
41	Complementary spectroscopic studies of materials of security interest. , 2006, 6402, 74.		8