

Benjamin K Ofori-Okai

List of Publications by Year in descending order

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41
papers

1,262
citations

516710

16
h-index

361022

35
g-index

44
all docs

44
docs citations

44
times ranked

2305
citing authors

#	ARTICLE	IF	CITATIONS
1	An ultrafast symmetry switch in a Weyl semimetal. <i>Nature</i> , 2019, 565, 61-66.	27.8	307
2	Spin properties of very shallow nitrogen vacancy defects in diamond. <i>Physical Review B</i> , 2012, 86, .	3.2	159
3	Coherent Two-Dimensional Terahertz Magnetic Resonance Spectroscopy of Collective Spin Waves. <i>Physical Review Letters</i> , 2017, 118, 207204.	7.8	106
4	Invited Article: Single-shot THz detection techniques optimized for multidimensional THz spectroscopy. <i>Review of Scientific Instruments</i> , 2015, 86, 051301.	1.3	82
5	Nonlinear two-dimensional terahertz photon echo and rotational spectroscopy in the gas phase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11800-11805.	7.1	81
6	Intermolecular Vibrations in Hydrophobic Amino Acid Crystals: Experiments and Calculations. <i>Journal of Physical Chemistry B</i> , 2013, 117, 10444-10461.	2.6	73
7	THz generation using a reflective stair-step echelon. <i>Optics Express</i> , 2016, 24, 5057.	3.4	55
8	Super Subwavelength Guiding and Rejecting of Terahertz Spoof SPPs Enabled by Planar Plasmonic Waveguides and Notch Filters Based on Spiral-Shaped Units. <i>Journal of Lightwave Technology</i> , 2018, 36, 4988-4994.	4.6	54
9	Transient terahertz photoconductivity measurements of minority-carrier lifetime in tin sulfide thin films: Advanced metrology for an early stage photovoltaic material. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	47
10	Chemically assisted femtosecond laser machining for applications in LiNbO ₃ and LiTaO ₃ . <i>Applied Physics A: Materials Science and Processing</i> , 2013, 112, 615-622.	2.3	25
11	Setup for meV-resolution inelastic X-ray scattering measurements and X-ray diffraction at the Matter in Extreme Conditions endstation at the Linac Coherent Light Source. <i>Review of Scientific Instruments</i> , 2018, 89, 10F104.	1.3	25
12	The impact of sodium contamination in tin sulfide thin-film solar cells. <i>APL Materials</i> , 2016, 4, .	5.1	23
13	Two-Dimensional Spectroscopy at Terahertz Frequencies. <i>Topics in Current Chemistry</i> , 2018, 376, 6.	5.8	22
14	An approach for the measurement of the bulk temperature of single crystal diamond using an X-ray free electron laser. <i>Scientific Reports</i> , 2020, 10, 14564.	3.3	21
15	Rapid and precise determination of zero-field splittings by terahertz time-domain electron paramagnetic resonance spectroscopy. <i>Chemical Science</i> , 2017, 8, 7312-7323.	7.4	20
16	Ultrafast multi-cycle terahertz measurements of the electrical conductivity in strongly excited solids. <i>Nature Communications</i> , 2021, 12, 1638.	12.8	20
17	Dynamics of a Persistent Insulator-to-Metal Transition in Strained Manganite Films. <i>Physical Review Letters</i> , 2019, 123, 267201.	7.8	16
18	High-resolution inelastic x-ray scattering at the high energy density scientific instrument at the European X-Ray Free-Electron Laser. <i>Review of Scientific Instruments</i> , 2021, 92, 013101.	1.3	15

#	ARTICLE	IF	CITATIONS
19	A terahertz pump mega-electron-volt ultrafast electron diffraction probe apparatus at the SLAC Accelerator Structure Test Area facility. <i>Journal of Instrumentation</i> , 2018, 13, P06014-P06014.	1.2	13
20	High-Resolution, Low-Noise Imaging in THz Polaritonics. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2013, 3, 239-247.	3.1	11
21	Direct experimental visualization of waves and band structure in 2D photonic crystal slabs. <i>New Journal of Physics</i> , 2014, 16, 053003.	2.9	11
22	Toward quasi-DC conductivity of warm dense matter measured by single-shot terahertz spectroscopy. <i>Review of Scientific Instruments</i> , 2018, 89, 10D109.	1.3	10
23	Determination of the electron-lattice coupling strength of copper with ultrafast MeV electron diffraction. <i>Review of Scientific Instruments</i> , 2018, 89, 10C108.	1.3	8
24	Self-referenced single-shot THz detection. <i>Optics Express</i> , 2017, 25, 16140.	3.4	7
25	Single-Shot Multi-Frame Imaging of Cylindrical Shock Waves in a Multi-Layered Assembly. <i>Scientific Reports</i> , 2019, 9, 3689.	3.3	7
26	Ultrafast visualization of incipient plasticity in dynamically compressed matter. <i>Nature Communications</i> , 2022, 13, 1055.	12.8	7
27	Observation of a highly conductive warm dense state of water with ultrafast pump-probe free-electron-laser measurements. <i>Matter and Radiation at Extremes</i> , 2021, 6, .	3.9	6
28	Two-Dimensional Spectroscopy at Terahertz Frequencies. <i>Topics in Current Chemistry Collections</i> , 2019, , 275-320.	0.5	5
29	What is the Brillouin zone of an anisotropic photonic crystal?. <i>Physical Review B</i> , 2016, 93, .	3.2	4
30	Macroscopic Ionic Flow in a Superionic Conductor $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:mrow} \langle \text{mml:msup} \langle \text{mml:mrow} \langle \text{mml:mi} \text{Na} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:mrow} \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:mrow} \langle \text{mml:mi} \rangle ^2 \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle - \text{Alumina Driven by Single-Cycle Terahertz Pulses. } \langle \text{mml:mrow} \langle \text{mml:mi} \rangle ^2 \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$	7.8	4
31	Imaging of terahertz fields and responses. , 2014, , .		3
32	The homogenization limit and waveguide gradient index devices demonstrated through direct visualization of THz fields. <i>New Journal of Physics</i> , 2015, 17, 013013.	2.9	3
33	Analysis of terahertz generation by beamlet superposition. <i>Optics Express</i> , 2019, 27, 26547.	3.4	3
34	Towards performing high-resolution inelastic X-ray scattering measurements at hard X-ray free-electron lasers coupled with energetic laser drivers. <i>Journal of Synchrotron Radiation</i> , 2022, 29, .	2.4	3
35	Two-dimensional Terahertz Photon Echo and Rotational Spectroscopy in the Gas Phase. , 2016, , .		2
36	Visualization of guided and leaky wave behaviors in an indium tin oxide metallic slab waveguide. <i>Optics Express</i> , 2015, 23, 14876.	3.4	1

#	ARTICLE	IF	CITATIONS
37	2D Nonlinear Terahertz Magnetic Resonance Spectroscopy of Magnons in a Canted Antiferromagnet. , 2016, , .		1
38	Circumventing limitations of tilted-pulse-front terahertz generation using a stair-step echelon. , 2016, , .		0
39	Development of a THz Pump MeV Ultrafast Electron Diffraction Probe Apparatus. , 2018, , .		0
40	Broadband terahertz generation with a stair-step echelon. , 2017, , .		0
41	Developments and Applications of Echelon-Based Single-shot Terahertz Spectroscopy. , 2018, , .		0