David Cooke

List of Publications by Year in descending order

44 papers	1,647 citations	279798 23 h-index	315739 38 g-index
46 all docs	46 docs citations	46 times ranked	2707 citing authors

#	Article	IF	Citations
1	Extreme lightwave electron field emission from a nanotip. Physical Review Research, 2021, 3, .	3.6	11
2	Front-induced transitions control THz waves. Communications Physics, 2021, 4, .	5.3	2
3	Nanoscale force sensing of an ultrafast nonlinear optical response. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19773-19779.	7.1	7
4	Dynamic THz signatures of charge-lattice correlations. , 2020, , .		0
5	A Low-Cost Terahertz Camera. Applied Sciences (Switzerland), 2019, 9, 2531.	2.5	10
6	Ultrafast correlated charge and lattice motion in a hybrid metal halide perovskite. Science Advances, 2019, 5, eaaw5558.	10.3	66
7	Terahertz Pulse Trapping Beyond the Delay-Bandwidth Limit. , 2019, , .		0
8	Coherent charge-phonon correlations and exciton dynamics in orthorhombic CH3NH3PbI3 measured by ultrafast multi-THz spectroscopy. Journal of Chemical Physics, 2019, 151, 214201.	3.0	6
9	How optical excitation controls the structure and properties of vanadium dioxide. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 450-455.	7.1	80
10	Active phase control of terahertz pulses using a dynamic waveguide. Optics Express, 2018, 26, 13876.	3.4	23
11	Piezoelectric scattering limited mobility of hybrid organic-inorganic perovskites CH3NH3PbI3. Scientific Reports, 2017, 7, 41860.	3.3	31
12	Multi-Cycle Terahertz Emission from Î²-Barium Borate. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 96-103.	2.2	8
13	Arbitrary shaping of terahertz pulses using light-induced photonic structures. , 2017, , .		0
14	Direct temporal shaping of terahertz light pulses. Optica, 2017, 4, 1416.	9.3	19
15	All-optical platform for THz pulse-shaping. , 2016, , .		1
16	Charge Transport Mechanisms in a Pb₂P₂Se₆ Semiconductor. ACS Photonics, 2016, 3, 1877-1887.	6.6	6
17	Dynamic creation of a light-induced terahertz guided-wave resonator. Optics Express, 2016, 24, 2496.	3.4	9
18	Temporal and spectral shaping of broadband terahertz pulses in a photoexcited semiconductor. Applied Physics Letters, 2015, 106, 051110.	3.3	7

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19	Nonlinear terahertz field-induced carrier dynamics in photoexcited epitaxial monolayer graphene. Physical Review B, 2015, 91, .	3.2	60
20	Intrinsic femtosecond charge generation dynamics in single crystal CH₃NH₃PbI₃. Energy and Environmental Science, 2015, 8, 3700-3707.	30.8	203
21	Terahertz pulse generation from bulk GaAs by a tilted-pulse-front excitation at 1.8â€‰Î¼m. Applied Physics Letters, 2014, 105, .	3.3	44
22	Nonlinear transmission of an intense terahertz field through monolayer graphene. AIP Advances, 2014, 4, 117118.	1.3	24
23	Terahertz phase contrast imaging of sorption kinetics in porous coordination polymer nanocrystals using differential optical resonator. Optics Express, 2014, 22, 11061.	3.4	3
24	Optically induced mode coupling and interference in a terahertz parallel plate waveguide. Optics Letters, 2014, 39, 1807.	3.3	9
25	Effect of extreme pump pulse reshaping on intense terahertz emission in lithium niobate at multimilliJoule pump energies. Optics Letters, 2014, 39, 4333.	3.3	58
26	Time resolved broadband terahertz relaxation dynamics of electron in water. , 2014, , .		0
27	Effect of local field enhancement on the nonlinear terahertz response of a silicon-based metamaterial. Physical Review B, 2013, 88, .	3.2	49
28	Introduction to the special issue on terahertz spectroscopy. IEEE Transactions on Terahertz Science and Technology, 2013, 3, 237-238.	3.1	3
29	Carrier density dependence of the nonlinear absorption of intense THz radiation in GaAs. Optics Express, 2012, 20, 18016.	3.4	58
30	Ultrabroadband terahertz conductivity of Si nanocrystal films. Applied Physics Letters, 2012, 101, .	3.3	37
31	Nonlinear terahertz metamaterials. , 2012, , .		0
32	Quantitative mapping of large area graphene conductance. , 2012, , .		1
33	Graphene Conductance Uniformity Mapping. Nano Letters, 2012, 12, 5074-5081.	9.1	152
34	Direct Observation of Sub-100Âfs Mobile Charge Generation in a Polymer-Fullerene Film. Physical Review Letters, 2012, 108, 056603.	7.8	79
35	Ultrafast percolative transport dynamics in silicon nanocrystal films. Physical Review B, 2011, 83, .	3.2	57
36	Dynamic optically induced planar terahertz quasioptics. Applied Physics Letters, 2009, 94, 241118.	3.3	11

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37	Simultaneous reference and differential waveform acquisition in time-resolved terahertz spectroscopy. Optics Express, 2009, 17, 21969.	3.4	36
38	Optical modulation of terahertz pulses in a parallel plate waveguide. Optics Express, 2008, 16, 15123.	3.4	64
39	Ultrafast terahertz conductivity of photoexcited nanocrystalline silicon. Journal of Materials Science: Materials in Electronics, 2007, 18, 447-452.	2.2	29
40	Electron mobility in dilute GaAs bismide and nitride alloys measured by time-resolved terahertz spectroscopy. Applied Physics Letters, 2006, 89, 122103.	3.3	104
41	Developing 1D nanostructure arrays for future nanophotonics. Nanoscale Research Letters, 2006, 1, 99-119.	5.7	46
42	Ultrafast carrier dynamics in pentacene, functionalized pentacene, tetracene, and rubrene single crystals. Applied Physics Letters, 2006, 88, 162101.	3.3	107
43	Anisotropy of transient photoconductivity in functionalized pentacene single crystals. Applied Physics Letters, 2006, 89, 192113.	3.3	79
44	Anisotropic photoconductivity of InGaAs quantum dot chains measured by terahertz pulse spectroscopy. Applied Physics Letters, 2004, 85, 3839-3841.	3.3	46