

David Cooke

List of Publications by Year in descending order

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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	Intrinsic femtosecond charge generation dynamics in single crystal CH ₃ NH ₃ Pb ₃ . Energy and Environmental Science, 2015, 8, 3700-3707.	30.8	203
2	Graphene Conductance Uniformity Mapping. Nano Letters, 2012, 12, 5074-5081.	9.1	152
3	Ultrafast carrier dynamics in pentacene, functionalized pentacene, tetracene, and rubrene single crystals. Applied Physics Letters, 2006, 88, 162101.	3.3	107
4	Electron mobility in dilute GaAs bismide and nitride alloys measured by time-resolved terahertz spectroscopy. Applied Physics Letters, 2006, 89, 122103.	3.3	104
5	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
6	Anisotropy of transient photoconductivity in functionalized pentacene single crystals. Applied Physics Letters, 2006, 89, 192113.	3.3	79
7	Direct Observation of Sub-100Åfs Mobile Charge Generation in a Polymer-Fullerene Film. Physical Review Letters, 2012, 108, 056603.	7.8	79
8	Ultrafast correlated charge and lattice motion in a hybrid metal halide perovskite. Science Advances, 2019, 5, eaaw5558.	10.3	66
9	Optical modulation of terahertz pulses in a parallel plate waveguide. Optics Express, 2008, 16, 15123.	3.4	64
10	Nonlinear terahertz field-induced carrier dynamics in photoexcited epitaxial monolayer graphene. Physical Review B, 2015, 91, .	3.2	60
11	Carrier density dependence of the nonlinear absorption of intense THz radiation in GaAs. Optics Express, 2012, 20, 18016.	3.4	58
12	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
13	Ultrafast percolative transport dynamics in silicon nanocrystal films. Physical Review B, 2011, 83, .	3.2	57
14	Effect of local field enhancement on the nonlinear terahertz response of a silicon-based metamaterial. Physical Review B, 2013, 88, .	3.2	49
15	Anisotropic photoconductivity of InGaAs quantum dot chains measured by terahertz pulse spectroscopy. Applied Physics Letters, 2004, 85, 3839-3841.	3.3	46
16	Developing 1D nanostructure arrays for future nanophotonics. Nanoscale Research Letters, 2006, 1, 99-119.	5.7	46
17	Terahertz pulse generation from bulk GaAs by a tilted-pulse-front excitation at 1.8μm. Applied Physics Letters, 2014, 105, .	3.3	44
18	Ultrabroadband terahertz conductivity of Si nanocrystal films. Applied Physics Letters, 2012, 101, .	3.3	37

#	ARTICLE	IF	CITATIONS
19	Simultaneous reference and differential waveform acquisition in time-resolved terahertz spectroscopy. <i>Optics Express</i> , 2009, 17, 21969.	3.4	36
20	Piezoelectric scattering limited mobility of hybrid organic-inorganic perovskites CH ₃ NH ₃ PbI ₃ . <i>Scientific Reports</i> , 2017, 7, 41860.	3.3	31
21	Ultrafast terahertz conductivity of photoexcited nanocrystalline silicon. <i>Journal of Materials Science: Materials in Electronics</i> , 2007, 18, 447-452.	2.2	29
22	Nonlinear transmission of an intense terahertz field through monolayer graphene. <i>AIP Advances</i> , 2014, 4, 117118.	1.3	24
23	Active phase control of terahertz pulses using a dynamic waveguide. <i>Optics Express</i> , 2018, 26, 13876.	3.4	23
24	Direct temporal shaping of terahertz light pulses. <i>Optica</i> , 2017, 4, 1416.	9.3	19
25	Dynamic optically induced planar terahertz quasi-optics. <i>Applied Physics Letters</i> , 2009, 94, 241118.	3.3	11
26	Extreme lightwave electron field emission from a nanotip. <i>Physical Review Research</i> , 2021, 3, .	3.6	11
27	A Low-Cost Terahertz Camera. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2531.	2.5	10
28	Optically induced mode coupling and interference in a terahertz parallel plate waveguide. <i>Optics Letters</i> , 2014, 39, 1807.	3.3	9
29	Dynamic creation of a light-induced terahertz guided-wave resonator. <i>Optics Express</i> , 2016, 24, 2496.	3.4	9
30	Multi-Cycle Terahertz Emission from $\hat{1}^2$ -Barium Borate. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2017, 38, 96-103.	2.2	8
31	Temporal and spectral shaping of broadband terahertz pulses in a photoexcited semiconductor. <i>Applied Physics Letters</i> , 2015, 106, 051110.	3.3	7
32	Nanoscale force sensing of an ultrafast nonlinear optical response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 19773-19779.	7.1	7
33	Charge Transport Mechanisms in a Pb ₂ P ₂ Se ₆ Semiconductor. <i>ACS Photonics</i> , 2016, 3, 1877-1887.	6.6	6
34	Coherent charge-phonon correlations and exciton dynamics in orthorhombic CH ₃ NH ₃ PbI ₃ measured by ultrafast multi-THz spectroscopy. <i>Journal of Chemical Physics</i> , 2019, 151, 214201.	3.0	6
35	Introduction to the special issue on terahertz spectroscopy. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2013, 3, 237-238.	3.1	3
36	Terahertz phase contrast imaging of sorption kinetics in porous coordination polymer nanocrystals using differential optical resonator. <i>Optics Express</i> , 2014, 22, 11061.	3.4	3

#	ARTICLE	IF	CITATIONS
37	Front-induced transitions control THz waves. Communications Physics, 2021, 4, .	5.3	2
38	Quantitative mapping of large area graphene conductance. , 2012, , .		1
39	All-optical platform for THz pulse-shaping. , 2016, , .		1
40	Nonlinear terahertz metamaterials. , 2012, , .		0
41	Time resolved broadband terahertz relaxation dynamics of electron in water. , 2014, , .		0
42	Arbitrary shaping of terahertz pulses using light-induced photonic structures. , 2017, , .		0
43	Terahertz Pulse Trapping Beyond the Delay-Bandwidth Limit. , 2019, , .		0
44	Dynamic THz signatures of charge-lattice correlations. , 2020, , .		0