

Stuart Trugman

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5596702/publications.pdf>

Version: 2024-02-01

49
papers

1,880
citations

257450

24
h-index

243625

44
g-index

52
all docs

52
docs citations

52
times ranked

2112
citing authors

#	ARTICLE	IF	CITATIONS
1	Holstein polaron. Physical Review B, 1999, 60, 1633-1642.	3.2	235
2	Ultrafast Conductivity Dynamics in Colossal Magnetoresistance Manganites. Physical Review Letters, 2001, 87, 017401.	7.8	142
3	Explanation of normal-state properties of high-temperature superconductors. Physical Review Letters, 1990, 65, 500-503.	7.8	119
4	Dimensionality effects on the Holstein polaron. Physical Review B, 2002, 65, .	3.2	117
5	Origin of the decrease in the torsional-oscillator period of solid ^4He . Physical Review B, 2007, 76, .	3.2	90
6	Ultrafast carrier dynamics and radiative recombination in multiferroic BiFeO ₃ . Applied Physics Letters, 2012, 100, .	3.3	77
7	Tracking Ultrafast Photocurrents in the Weyl Semimetal TaAs Using THz Emission Spectroscopy. Physical Review Letters, 2019, 122, 197401.	7.8	76
8	Quasiparticle Relaxation Dynamics in Heavy Fermion Compounds. Physical Review Letters, 2003, 91, 027401.	7.8	67
9	Long-wavelength magnetic and magnetoelectric excitations in the ferroelectric antiferromagnet BiFeO ₃ . Physical Review B, 2011, 83, .	3.2	66
10	Ultrafast carrier dynamics in the large-magnetoresistance material WTe ₂ . Physical Review B, 2015, 92, .	3.2	58
11	High-dimensional fractionalization and spinon deconfinement in pyrochlore antiferromagnets. Physical Review B, 2007, 75, .	3.2	56
12	Ultrafast Electron and Hole Dynamics in Germanium Nanowires. Nano Letters, 2008, 8, 1619-1624.	9.1	55
13	Entropy of solid He ⁴ : The possible role of a dislocation-induced glass. Physical Review B, 2007, 75, .	3.2	54
14	Quantum dynamics of polaron formation. Physical Review B, 2007, 75, .	3.2	44
15	Exact Ground States of a Frustrated 2D Magnet: Deconfined Fractional Excitations at a First-Order Quantum Phase Transition. Physical Review Letters, 2004, 93, 217202.	7.8	41
16	Heavy holes as a precursor to superconductivity in antiferromagnetic CeIn ₃ . Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7741-7744.	7.1	40
17	Coherent optical and acoustic phonon generation correlated with the charge-ordering phase transition in La ^{1-x} CaxMnO ₃ . Physical Review B, 2005, 71, .	3.2	38
18	Ultrafast quasiparticle relaxation dynamics in normal metals and heavy-fermion materials. Physical Review B, 2004, 69, .	3.2	37

#	ARTICLE	IF	CITATIONS
19	On Photo-Induced Phenomena in Complex Materials: Probing Quasiparticle Dynamics using Infrared and Far-Infrared Pulses. Journal of the Physical Society of Japan, 2006, 75, 011006.	1.6	36
20	Magnetic Exchange Interaction between Rare-Earth and Mn Ions in Multiferroic Hexagonal Manganites. Physical Review Letters, 2008, 101, 247601.	7.8	36
21	Measurement of Two Low-Temperature Energy Gaps in the Electronic Structure of Antiferromagnetic URu_2Si_2 Using Evidence of a hidden-order pseudogap state in URu_2Si_2 . Physical Review Letters, 2010, 105, 057402.	7.8	34
22	Measurement of the spin Hall of light using ultrafast optical spectroscopy. Physical Review B, 2011, 84, .	3.2	32
23	Using ultrashort optical pulses to couple ferroelectric and ferromagnetic order in an oxide heterostructure. Nature Communications, 2014, 5, 5832.	12.8	30
24	Detection of Coherent Magnons via Ultrafast Pump-Probe Reflectance Spectroscopy in Multiferroic $\text{Ba}_0.6\text{Sr}_0.4\text{TiO}_3$. Physical Review Letters, 2008, 101, 097603.	7.8	29
25	Coexistence of coupled magnetic phases in epitaxial TbMnO_3 films revealed by ultrafast optical spectroscopy. Applied Physics Letters, 2012, 101, .	3.3	24
26	Hybridization and Superconducting Gaps in the Heavy-Fermion Superconductor PuCoGa_5 Probed via the Dynamics of Photoinduced Quasiparticles. Physical Review Letters, 2010, 104, 227002.	7.8	23
27	Numerical Solution of the Holstein Polaron Problem. Springer Series in Materials Science, 2007, , 393-461.	0.6	22
28	Photocurrent-driven transient symmetry breaking in the Weyl semimetal TaAs. Nature Materials, 2022, 21, 62-66.	27.5	20
29	Spectral function of the Holstein polaron at finite temperature. Physical Review B, 2019, 100, .	3.2	19
30	Dynamic properties of a polaron coupled to dispersive optical phonons. Physical Review B, 2021, 103, .	3.2	19
31	Ageing and immortality in a cell proliferation model. Journal of Theoretical Biology, 2007, 248, 411-417.	1.7	17
32	Photoinduced stabilization and enhancement of the ferroelectric polarization in $\text{Ba}_0.1\text{Sr}_0.9\text{TiO}_3$. Physical Review Letters, 2010, 105, 057402.	3.2	17
33	Spin-dependent polaron formation dynamics in EuMnO_3 by femtosecond pump-probe spectroscopy. Physical Review B, 2015, 91, .	3.2	17
34	Probing ultrafast spin dynamics through a magnon resonance in the antiferromagnetic multiferroic HoMnO_3 . Physical Review B, 2016, 94, .	3.2	16
35	Probing the Interplay between Quantum Charge Fluctuations and Magnetic Ordering in LuFe_2O_4 . Scientific Reports, 2013, 3, 2654.	3.3	15
36	Modal analysis method to describe weak nonlinear effects in metamaterials. Physical Review B, 2012, 85, .	3.2	13

#	ARTICLE	IF	CITATIONS
37	Coupled Charge-Spin Dynamics of the Magnetoresistive Pyrochlore $Tl_2Mn_2O_7$ Probed Using Ultrafast Midinfrared Spectroscopy. <i>Physical Review Letters</i> , 2005, 95, 267404.	7.8	12
38	Torsional oscillators and the entropy dilemma of putative supersolid ^4He . <i>Journal of Physics: Conference Series</i> , 2009, 150, 032025.	0.4	10
39	Directly probing spin dynamics in insulating antiferromagnets using ultrashort terahertz pulses. <i>Physical Review B</i> , 2016, 94, .	3.2	8
40	Using ultrashort terahertz pulses to directly probe spin dynamics in insulating antiferromagnets. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 194003.	2.8	8
41	Optical absorption spectroscopy in hybrid systems of plasmons and excitons. <i>Nanoscale</i> , 2019, 11, 2037-2047.	5.6	3
42	Ultrafast carrier dynamics in semiconductor nanowires. <i>Proceedings of SPIE</i> , 2009, , .	0.8	2
43	Induced polarization at a paraelectric/superconducting interface. <i>Physical Review B</i> , 2011, 84, .	3.2	2
44	Ultrafast carrier dynamics and radiative recombination in multiferroic BiFeO_3 single crystals and thin films. <i>EPJ Web of Conferences</i> , 2013, 41, 03018.	0.3	2
45	The influence of charge and magnetic order on polaron and acoustic phonon dynamics in LuFe_2O_4 . <i>Applied Physics Letters</i> , 2015, 107, .	3.3	2
46	Dynamic investigations of multiferroics: Terahertz and beyond. <i>Journal of Physics: Conference Series</i> , 2009, 148, 012037.	0.4	0
47	Ultrafast Dynamics of Multiferroic $h\text{-LuFeO}_3$. , 2015, , .		0
48	Coupling between antiferromagnetic and superconducting order in an oxide heterostructure revealed using ultrafast optical spectroscopy. , 2013, , .		0
49	Polarization-dependent surface-bulk scattering in the Weyl semimetal NbAs . , 2017, , .		0