

Stuart Trugman

List of Publications by Year in descending order

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49

papers

1,880

citations

257450

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243625

44

g-index

52

all docs

52

docs citations

52

times ranked

2112

citing authors

#	ARTICLE	IF	CITATIONS
1	Photocurrent-driven transient symmetry breaking in the Weyl semimetal TaAs. <i>Nature Materials</i> , 2022, 21, 62-66.	27.5	20
2	Dynamic properties of a polaron coupled to dispersive optical phonons. <i>Physical Review B</i> , 2021, 103, .	3.2	19
3	Spectral function of the Holstein polaron at finite temperature. <i>Physical Review B</i> , 2019, 100, .	3.2	19
4	Optical absorption spectroscopy in hybrid systems of plasmons and excitons. <i>Nanoscale</i> , 2019, 11, 2037-2047.	5.6	3
5	Tracking Ultrafast Photocurrents in the Weyl Semimetal TaAs Using THz Emission Spectroscopy. <i>Physical Review Letters</i> , 2019, 122, 197401.	7.8	76
6	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
7	Polarization-dependent surface-bulk scattering in the Weyl semimetal NbAs. , 2017, .		0
8	Directly probing spin dynamics in insulating antiferromagnets using ultrashort terahertz pulses. <i>Physical Review B</i> , 2016, 94, .	3.2	8
9	Probing ultrafast spin dynamics through a magnon resonance in the antiferromagnetic multiferroic $\text{HoMnO}_{3.2}$. <i>Physical Review B</i> , 2016, 94, .		
10	Ultrafast carrier dynamics in the large-magnetoresistance material WTe_2 . <i>Physical Review B</i> , 2015, 92, .		
11	Spin-dependent polaron formation dynamics in $\text{Eu}_{0.75}\text{Y}_{0.25}$ by femtosecond pump-probe spectroscopy. <i>Physical Review B</i> , 2015, 91, .		
12	Ultrafast Dynamics of Multiferroic h-LuFeO ₃ . , 2015, .		0
13	The influence of charge and magnetic order on polaron and acoustic phonon dynamics in LuFe ₂ O ₄ . <i>Applied Physics Letters</i> , 2015, 107, .	3.3	2
14	Using ultrashort optical pulses to couple ferroelectric and ferromagnetic order in an oxide heterostructure. <i>Nature Communications</i> , 2014, 5, 5832.	12.8	30
15	Photoinduced stabilization and enhancement of the ferroelectric polarization in Ba SrTiO_3 . <i>Physical Review Letters</i> , 2013, 111, 057402.	3.2	17
16	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
17	Probing the Interplay between Quantum Charge Fluctuations and Magnetic Ordering in LuFe ₂ O ₄ . <i>Scientific Reports</i> , 2013, 3, 2654.	3.3	15
18	Measurement of Two Low-Temperature Energy Gaps in the Electronic Structure of Antiferromagnetic USb_{2-x} . <i>Physical Review Letters</i> , 2013, 111, 057402.	7.8	34

#	ARTICLE	IF	CITATIONS
19	Coupling between antiferromagnetic and superconducting order in an oxide heterostructure revealed using ultrafast optical spectroscopy. , 2013, , .	0	
20	Modal analysis method to describe weak nonlinear effects in metamaterials. Physical Review B, 2012, 85, .	3.2	13
21	Coexistence of coupled magnetic phases in epitaxial TbMnO ₃ films revealed by ultrafast optical spectroscopy. Applied Physics Letters, 2012, 101, .	3.3	24
22	Ultrafast carrier dynamics and radiative recombination in multiferroic BiFeO ₃ . Applied Physics Letters, 2012, 100, .	3.3	77
23	Long-wavelength magnetic and magnetoelectric excitations in the ferroelectric antiferromagnet BiFeO ₃ . $\text{BiFeO}_3 \text{ mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"}$ display="inline"><mml:mrow><mml:msub><mml:mrow>/><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review B, 2011, 83, .	3.2	66
24	Induced polarization at a paraelectric/superconducting interface. Physical Review B, 2011, 84, . Evidence of a hidden order/pseudogap state in HfRu ₃ Sn ₆ . $\text{xmlns:mml="http://www.w3.org/1998/Math/MathML"}$ display="inline"><mml:msub><mml:mrow>/><mml:mrow>2</mml:mn></mml:msub></mml:math> Si<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow>/><mml:mrow>2</mml:mn></mml:msub></mml:math> using ultrafast optical spectroscopy. Physical Review B, 2011, 84, .	3.2	2
25	Hybridization and Superconducting Gaps in the Heavy-Fermion Superconductor PuCoGa_5 . $\text{xmlns:mml="http://www.w3.org/1998/Math/MathML"}$ display="inline"><mml:msub><mml:mi>PuCoGa</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:math> Probed via the Dynamics of Photoinduced Quasiparticles. Physical Review Letters, 2010, 104, 227002.	3.2	32
26	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
27	Ultrafast carrier dynamics in semiconductor nanowires. Proceedings of SPIE, 2009, , .	0.8	2
28	Torsional oscillators and the entropy dilemma of putative supersolid ⁴ He. Journal of Physics: Conference Series, 2009, 150, 032025.	0.4	10
29	Dynamic investigations of multiferroics: Terahertz and beyond. Journal of Physics: Conference Series, 2009, 148, 012037.	0.4	0
30	Detection of Coherent Magnons via Ultrafast Pump-Probe Reflectance Spectroscopy in Multiferroic $\text{Ba}_{0.6}\text{Sr}_{2}\text{O}_{2}\text{Mn}_{22}$. $\text{xmlns:mml="http://www.w3.org/1998/Math/MathML"}$ display="inline"><mml:msub><mml:mi>Ba</mml:mi><mml:mn>0.6</mml:mn></mml:msub><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2008, 101, 097403.	0.4	0
31	Magnetic Exchange Interaction between Rare-Earth and Mn Ions in Multiferroic Hexagonal Manganites. Physical Review Letters, 2008, 101, 247601.	7.8	36
32	Ultrafast Electron and Hole Dynamics in Germanium Nanowires. Nano Letters, 2008, 8, 1619-1624.	9.1	55
33	Origin of the decrease in the torsional-oscillator period of solid He_4 . $\text{xmlns:mml="http://www.w3.org/1998/Math/MathML"}$ display="inline"><mml:mmultiscripts><mml:mi>He</mml:mi><mml:mprescripts /><mml:none /><mml:mn>4</mml:mn></mml:mmultiscripts></mml:math>. Physical Review B, 2007, 76, .	3.2	90
34	High-dimensional fractionalization and spinon deconfinement in pyrochlore antiferromagnets. Physical Review B, 2007, 75, .	3.2	56
35	Entropy of solidHe4: The possible role of a dislocation-induced glass. Physical Review B, 2007, 75, .	3.2	54

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37	Quantum dynamics of polaron formation. Physical Review B, 2007, 75, .	3.2	44	
38	Aging and immortality in a cell proliferation model. Journal of Theoretical Biology, 2007, 248, 411-417.	1.7	17	
39	Numerical Solution of the Holstein Polaron Problem. Springer Series in Materials Science, 2007, , 393-461.	0.6	22	
40	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	
41	Coupled Charge-Spin Dynamics of the Magnetoresistive Pyrochlore Tl ₂ Mn ₂ O ₇ Probed Using Ultrafast Midinfrared Spectroscopy. Physical Review Letters, 2005, 95, 267404.	7.8	12	
42	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	
43	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	
44	Ultrafast quasiparticle relaxation dynamics in normal metals and heavy-fermion materials. Physical Review B, 2004, 69, .	3.2	37	
45	Quasiparticle Relaxation Dynamics in Heavy Fermion Compounds. Physical Review Letters, 2003, 91, 027401.	7.8	67	
46	Dimensionality effects on the Holstein polaron. Physical Review B, 2002, 65, .	3.2	117	
47	Ultrafast Conductivity Dynamics in Colossal Magnetoresistance Manganites. Physical Review Letters, 2001, 87, 017401.	7.8	142	
48	Holstein polaron. Physical Review B, 1999, 60, 1633-1642.	3.2	235	
49	Explanation of normal-state properties of high-temperature superconductors. Physical Review Letters, 1990, 65, 500-503.	7.8	119	