

# Stuart Trugman

## List of Publications by Year in descending order

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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	Photocurrent-driven transient symmetry breaking in the Weyl semimetal TaAs. Nature Materials, 2022, 21, 62-66.	27.5	20
2	Dynamic properties of a polaron coupled to dispersive optical phonons. Physical Review B, 2021, 103, .	3.2	19
3	Spectral function of the Holstein polaron at finite temperature. Physical Review B, 2019, 100, .	3.2	19
4	Optical absorption spectroscopy in hybrid systems of plasmons and excitons. Nanoscale, 2019, 11, 2037-2047.	5.6	3
5	Tracking Ultrafast Photocurrents in the Weyl Semimetal TaAs Using THz Emission Spectroscopy. Physical Review Letters, 2019, 122, 197401.	7.8	76
6	Using ultrashort terahertz pulses to directly probe spin dynamics in insulating antiferromagnets. Journal Physics D: Applied Physics, 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. Physical Review B, 2016, 94, .	3.2	8
9	Probing ultrafast spin dynamics through a magnon resonance in the antiferromagnetic multiferroic $\text{HoMnO}_3$ . Physical Review B, 2016, 94, .	3.2	16
10	Ultrafast carrier dynamics in the large-magnetoresistance material $\text{WTe}_2$ . Physical Review B, 2015, 92, .	3.2	16
11	Spin-dependent polaron formation dynamics in $\text{EuY}_2\text{MnO}_7$ by femtosecond pump-probe spectroscopy. Physical Review B, 2015, 91, .	3.3	17
12	Ultrafast Dynamics of Multiferroic $\text{h-LuFeO}_3$ . , 2015, , .		0
13	The influence of charge and magnetic order on polaron and acoustic phonon dynamics in $\text{LuFe}_2\text{O}_4$ . Applied Physics Letters, 2015, 107, .	3.3	2
14	Using ultrashort optical pulses to couple ferroelectric and ferromagnetic order in an oxide heterostructure. Nature Communications, 2014, 5, 5832.	12.8	30
15	Ferroelectric stabilization and ultrafast dynamics of ferroelectric polarization in $\text{BaSrTiO}_3$ . Physical Review Letters, 2014, 112, 177601.	3.2	17
16	Ultrafast carrier dynamics and radiative recombination in multiferroic $\text{BiFeO}_3$ single crystals and thin films. EPJ Web of Conferences, 2013, 41, 03018.	0.3	2
17	Probing the Interplay between Quantum Charge Fluctuations and Magnetic Ordering in $\text{LuFe}_2\text{O}_4$ . Scientific Reports, 2013, 3, 2654.	3.3	15
18	Measurement of Two Low-Temperature Energy Gaps in the Electronic Structure of Antiferromagnetic $\text{USb}_2$ Using Ultrafast Optical Spectroscopy. Physical Review Letters, 2013, 111, 057402.	7.8	34



#	ARTICLE	IF	CITATIONS
37	Quantum dynamics of polaron formation. <i>Physical Review B</i> , 2007, 75, .	3.2	44
38	Aging and immortality in a cell proliferation model. <i>Journal of Theoretical Biology</i> , 2007, 248, 411-417.	1.7	17
39	Numerical Solution of the Holstein Polaron Problem. <i>Springer Series in Materials Science</i> , 2007, , 393-461.	0.6	22
40	On Photo-Induced Phenomena in Complex Materials: Probing Quasiparticle Dynamics using Infrared and Far-Infrared Pulses. <i>Journal of the Physical Society of Japan</i> , 2006, 75, 011006.	1.6	36
41	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
42	Coherent optical and acoustic phonon generation correlated with the charge-ordering phase transition in $La_{1-x}Ca_xMnO_3$ . <i>Physical Review B</i> , 2005, 71, .	3.2	38
43	Exact Ground States of a Frustrated 2D Magnet: Deconfined Fractional Excitations at a First-Order Quantum Phase Transition. <i>Physical Review Letters</i> , 2004, 93, 217202.	7.8	41
44	Ultrafast quasiparticle relaxation dynamics in normal metals and heavy-fermion materials. <i>Physical Review B</i> , 2004, 69, .	3.2	37
45	Quasiparticle Relaxation Dynamics in Heavy Fermion Compounds. <i>Physical Review Letters</i> , 2003, 91, 027401.	7.8	67
46	Dimensionality effects on the Holstein polaron. <i>Physical Review B</i> , 2002, 65, .	3.2	117
47	Ultrafast Conductivity Dynamics in Colossal Magnetoresistance Manganites. <i>Physical Review Letters</i> , 2001, 87, 017401.	7.8	142
48	Holstein polaron. <i>Physical Review B</i> , 1999, 60, 1633-1642.	3.2	235
49	Explanation of normal-state properties of high-temperature superconductors. <i>Physical Review Letters</i> , 1990, 65, 500-503.	7.8	119