

# Edward Taylor

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

1,433  
citations

394286

19  
h-index

330025

37  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1276  
citing authors

#	ARTICLE	IF	CITATIONS
1	Crossover from Bardeen-Cooper-Schrieffer to Bose-Einstein Condensation and the Unitary Fermi Gas. Annual Review of Condensed Matter Physics, 2014, 5, 209-232.	5.2	201
2	Quantum Phases of a Two-Dimensional Dipolar Fermi Gas. Physical Review Letters, 2008, 101, 245301.	2.9	123
3	Viscosity of strongly interacting quantum fluids: Spectral functions and sum rules. Physical Review A, 2010, 81, .	1.0	93
4	Pairing fluctuations and the superfluid density through the BCS-BEC crossover. Physical Review A, 2006, 74, .	1.0	85
5	Superfluid density and condensate fraction in the BCS-BEC crossover regime at finite temperatures. Physical Review A, 2007, 75, .	1.0	83
6	Transverse Demagnetization Dynamics of a Unitary Fermi Gas. Science, 2014, 344, 722-724.	6.0	81
7	Intrinsic Hall Effect in a Multiband Chiral Superconductor in the Absence of an External Magnetic Field. Physical Review Letters, 2012, 108, 157001.	2.9	76
8	Apparent Low-Energy Scale Invariance in Two-Dimensional Fermi Gases. Physical Review Letters, 2012, 109, 135301.	2.9	60
9	Vanishing edge currents in non- $p$ -wave topological chiral superconductors. Physical Review B, 2014, 90, .	1.1	56
10	Nontopological nature of the edge current in a chiral $p$ -wave superconductor. Physical Review B, 2015, 91, .	1.1	55
11	Bogoliubov sound speed in periodically modulated Bose-Einstein condensates. Physical Review A, 2003, 68, .	1.0	54
12	First and second sound in a strongly interacting Fermi gas. Physical Review A, 2009, 80, .	1.0	46
13	Suppression of spontaneous currents in $2k_F$ surface disorder. Physical Review B, 2014, 90, .	1.1	44
14	Observation of the Leggett-Rice Effect in a Unitary Fermi Gas. Physical Review Letters, 2015, 114, 015301.	2.9	42
15	Two-fluid hydrodynamic modes in a trapped superfluid gas. Physical Review A, 2005, 72, .	1.0	36
16	Second sound and the density response function in uniform superfluid atomic gases. New Journal of Physics, 2010, 12, 043040.	1.2	31
17	The Use of Quantitative Imaging in Radiation Oncology: A Quantitative Imaging Network (QIN) Perspective. International Journal of Radiation Oncology Biology Physics, 2018, 102, 1219-1235.	0.4	30
18	Quantum Bounds on Heat Transport Through Nanojunctions. Physical Review Letters, 2015, 114, 220401.	2.9	29

#	ARTICLE	IF	CITATIONS
19	Variational theory of two-fluid hydrodynamic modes at unitarity. <i>Physical Review A</i> , 2008, 77, .	1.0	25
20	Colliding clouds of strongly interacting spin-polarized fermions. <i>Physical Review A</i> , 2011, 84, .	1.0	18
21	MRI-Guided Online Adaptive Stereotactic Body Radiation Therapy of Liver and Pancreas Tumors on an MR-Linac System. <i>Cancers</i> , 2022, 14, 716.	1.7	18
22	Spin-polarized Fermi superfluids as Bose-Fermi mixtures. <i>Physical Review A</i> , 2007, 76, .	1.0	16
23	Quantifying Reoxygenation in Pancreatic Cancer During Stereotactic Body Radiotherapy. <i>Scientific Reports</i> , 2020, 10, 1638.	1.6	16
24	Josephson relation for the superfluid density in the BCS-BEC crossover. <i>Physical Review B</i> , 2008, 77, .	1.1	15
25	Critical behavior in trapped strongly interacting Fermi gases. <i>Physical Review A</i> , 2009, 80, .	1.0	14
26	Anomalous Hall conductivity of clean $\text{SrRuO}_4$ at finite temperatures. <i>Journal of Physics: Conference Series</i> , 2013, 449, 012036.	0.3	14
27	Probing the optical conductivity of trapped charge-neutral quantum gases. <i>Europhysics Letters</i> , 2015, 110, 26002.	0.7	12
28	Quantifying hypoxia in human cancers using static PET imaging. <i>Physics in Medicine and Biology</i> , 2016, 61, 7957-7974.	1.6	11
29	Thermoelectric performance of strongly correlated quantum impurity models. <i>Physical Review B</i> , 2015, 92, .	1.1	10
30	Modeling the impact of spatial oxygen heterogeneity on radiolytic oxygen depletion during FLASH radiotherapy. <i>Physics in Medicine and Biology</i> , 2022, 67, 115017.	1.6	8
31	Simulated dose painting of hypoxic sub-volumes in pancreatic cancer stereotactic body radiotherapy. <i>Physics in Medicine and Biology</i> , 2021, 66, 185008.	1.6	7
32	Longitudinal in-vivo quantification of tumour microvascular heterogeneity by optical coherence angiography in pre-clinical radiation therapy. <i>Scientific Reports</i> , 2022, 12, 6140.	1.6	7
33	Locally gauge-invariant spin response of $\text{He}_3\text{B}$ films with Majorana surface states. <i>Physical Review B</i> , 2015, 91, .	1.1	5
34	Impact of tissue transport on PET hypoxia quantification in pancreatic tumours. <i>EJNMMI Research</i> , 2017, 7, 101.	1.1	5
35	Incorporating cross-voxel exchange into the analysis of dynamic contrast-enhanced imaging data: theory, simulations and experimental results. <i>Physics in Medicine and Biology</i> , 2021, 66, 205018.	1.6	5
36	Superfluid density in the BCS-BEC crossover regime of a Fermi superfluid. <i>Physica C: Superconductivity and Its Applications</i> , 2008, 468, 599-604.	0.6	1

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37	Bridging the macro to micro resolution gap with angiographic optical coherence tomography and dynamic contrast enhanced MRI. Scientific Reports, 2022, 12, 3159.	1.6	1
38	Simulated daily plan adaptation for magnetic resonance-guided liver stereotactic body radiotherapy. Acta OncolÃ³gica, 2021, 60, 260-266.	0.8	0
39	Longitudinal in-vivo quantification of tumour microvasculature heterogeneity via optical coherence tomography (OCT) angiography in a pre-clinical model of radiation therapy. , 2021, , .		0
40	Eliminating tattoos for short course palliative radiation therapy: Set-up error, satisfaction and cost. Journal of Medical Imaging and Radiation Sciences, 2022, , .	0.2	0