David K Campbell

List of Publications by Year
in descending order

37	2,317	394286	360920
papers	citations	19 h-index	35 g-index

37	37	37	3280
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Transport properties of pristine few-layer black phosphorus by van der Waals passivation in an inert atmosphere. Nature Communications, 2015, 6, 6647.	5.8	460
2	Localizing Energy Through Nonlinearity and Discreteness. Physics Today, 2004, 57, 43-49.	0.3	442
3	Bond-order-wave phase and quantum phase transitions in the one-dimensional extended Hubbard model. Physical Review B, 2002, 65, .	1.1	180
4	Introduction: The Fermiâ€“Pastaâ€“Ulam problemâ€”The first fifty years. Chaos, 2005, 15, 015101.	1.0	147
5	Polarization and valley switching in monolayer group-IV monochalcogenides. Physical Review B, 2016, 94, .	1.1	122
6	Accelerated Search and Design of Stretchable Graphene Kirigami Using Machine Learning. Physical Review Letters, 2018, 121, 255304.	2.9	118
7	Atomistic simulations of tension-induced large deformation and stretchability in graphene kirigami. Physical Review B, 2014, 90, .	1.1	109
8	Ground State Phases of the Half-Filled One-Dimensional Extended Hubbard Model. Physical Review Letters, 2004, 92, 236401.	2.9	102
9	Kirigami actuators. Soft Matter, 2017, 13, 9087-9092.	1.2	79
10	Highly stretchable MoS₂kirigami. Nanoscale, 2016, 8, 458-463.	2.8	68
11	Adiabatic Eigenstate Deformations as a Sensitive Probe for Quantum Chaos. Physical Review X, 2020, 10, .	2.8	60
12	Fermi, Pasta, Ulam and the Birth of Experimental Mathematics. American Scientist, 2009, 97, 214.	0.1	57
13	Functional Renormalization Group Analysis of the Half-Filled One-Dimensional Extended Hubbard Model. Physical Review Letters, 2006, 96, 036408.	2.9	54
14	Pseudomagnetic fields in graphene nanobubbles of constrained geometry: A molecular dynamics study. Physical Review B, 2014, 90, .	1.1	52
15	Forward and inverse design of kirigami via supervised autoencoder. Physical Review Research, 2020, 2, .	1.3	39
16	Two-dimensional square buckled Rashba lead chalcogenides. Physical Review B, 2017, 96, .	1.1	29
17	Graphene kirigami as a platform for stretchable and tunable quantum dot arrays. Physical Review B, 2016, 93, .	1.1	25
18	Strain-induced gauge and Rashba fields in ferroelectric Rashba lead chalcogenide <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Pb</mml:mi><mml:mi>X</mml:mi></mml:mrow></mml:m monolayers (<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 57 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mro	1.1	22

#	Article	IF	Citations
19	Floquet-engineered quantum state manipulation in a noisy qubit. Physical Review A, 2019, 100, .	1.0	20
20	Dynamics of entanglement in a dissipative Bose-Hubbard dimer. Physical Review A, 2013, 88, .	1.0	18
21	Dynamical glass in weakly nonintegrable Klein-Gordon chains. Physical Review E, 2019, 100, 032217.	0.8	18
22	Global phase space of coherence and entanglement in a double-well Bose-Einstein condensate. Physical Review A, 2012, 86, .	1.0	17
23	Behavior and breakdown of higher-order Fermi-Pasta-Ulam-Tsingou recurrences. Chaos, 2019, 29, 023132.	1.0	14
24	Dominant superconducting fluctuations in the one-dimensional extended Holsteinâ€“extended Hubbard model. Physical Review B, 2014, 89, .	1.1	10
25	Analysis of a Casimir-driven parametric amplifier with resilience to Casimir pull-in for MEMS single-point magnetic gradiometry. Microsystems and Nanoengineering, 2021, 7, 73.	3.4	10
26	Tunneling in the self-trapped regime of a two-well Bose-Einstein condensate. Physical Review A, 2014, 90, .	1.0	8
27	Critical entanglement for the half-filled extended Hubbard model. Physical Review B, 2019, 99, .	1.1	7
28	The Î² Fermi-Pasta-Ulam-Tsingou recurrence problem. Chaos, 2019, 29, 113107.	1.0	7
29	A system for probing Casimir energy corrections to the condensation energy. Microsystems and Nanoengineering, 2020, 6, 115.	3.4	6
30	Frequency-dependent functional renormalization group for interacting fermionic systems. Physical Review B, 2021, 103, .	1.1	5
31	Zeptometer Metrology Using the Casimir Effect. Journal of Low Temperature Physics, 2022, 208, 147-159.	0.6	5
32	Feedforward Control Algorithms for MEMS Galvos and Scanners. Journal of Microelectromechanical Systems, 2021, 30, 612-621.	1.7	4
33	dxy-density wave in fermion-fermion cold-atom mixtures. Physical Review A, 2014, 90, .	1.0	1
34	Effects of finite-range interactions on the one-electron spectral properties of one-dimensional metals: Application to Bi/InSb(001). Physical Review B, 2019, 100, .	1.1	1
35	A Remembrance. Inference, 2020, 5, .	0.0	1
36	Effects of finite-range interactions on the one-electron spectral properties of TTF-TCNQ. Physical Review B, 2019, 100, .	1.1	0

#	Article	IF	Citations
37	Effect of mediated interactions on a Hubbard chain in mixed-dimensional fermionic cold atoms. Physical Review Research, 2020, 2, .	1.3	0