Daniel Dundas

List of Publications by Year
in descending order

18	529	840776 11	888059 17
papers	citations	h-index	g-index

18	18	18	436
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Current-driven atomic waterwheels. Nature Nanotechnology, 2009, 4, 99-102.	31.5	135
2	Current-induced atomic dynamics, instabilities, and Raman signals: Quasiclassical Langevin equation approach. Physical Review B, 2012, 85, .	3.2	94
3	Dynamical simulation of inelastic quantum transport. Journal of Physics Condensed Matter, 2007, 19, 196201.	1.8	61
4	Current-induced forces: a simple derivation. European Journal of Physics, 2014, 35, 065004.	0.6	43
5	Nonconservative generalized current-induced forces. Physical Review B, 2010, 81, .	3.2	36
6	Inelastic quantum transport in nanostructures: The self-consistent Born approximation and correlated electron-ion dynamics. Physical Review B, 2008, 78, .	3.2	27
7	Multielectron effects in high harmonic generation in N2 and benzene: Simulation using a non-adiabatic quantum molecular dynamics approach for laser-molecule interactions. Journal of Chemical Physics, 2012, 136, 194303.	3.0	27
8	High-order-harmonic generation in benzene with linearly and circularly polarized laser pulses. Physical Review A, 2016, 93, .	2.5	25
9	Nonconservative current-induced forces: A physical interpretation. Beilstein Journal of Nanotechnology, 2011, 2, 727-733.	2.8	21
10	Accurate and efficient non-adiabatic quantum molecular dynamics approach for laserâ€“matter interactions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 2883-2901.	1.5	17
11	Nonconservative dynamics in long atomic wires. Physical Review B, 2014, 90, .	3.2	14
12	Driven Liouvilleâ€“von Neumann Equation for Quantum Transport and Multiple-Probe Greenâ€™s Functions. Journal of Physical Chemistry C, 2019, , .	3.1	8
13	An ignition key for atomic-scale engines. Journal of Physics Condensed Matter, 2012, 24, 402203.	1.8	7
14	Nonconservative current-driven dynamics: beyond the nanoscale. Beilstein Journal of Nanotechnology, 2015, 6, 2140-2147.	2.8	7
15	Probing the role of excited states in ionization of acetylene. Physical Chemistry Chemical Physics, 2017, 19, 19619-19630.	2.8	3
16	Non-conservative forces in bulk systems. Materials Science and Technology, 2017, 33, 1442-1446.	1.6	2
17	Curl maps in nanowires. Physical Review B, 2020, 102, .	3.2	2
18	Length Matters: Keeping Atomic Wires in Check. Materials Research Society Symposia Proceedings, 2015, 1753, 96.	0.1	0