J Scott Bunch

List of Publications by Year
in descending order

20 papers	9,378 citations	471509 17 h-index	794594 19 g-index
20 all docs	20 docs citations	20 times ranked	12712 citing authors

#	Article	IF	Citations
1	Electromechanical Resonators from Graphene Sheets. Science, 2007, 315, 490-493.	12.6	2,604
2	Impermeable Atomic Membranes from Graphene Sheets. Nano Letters, 2008, 8, 2458-2462.	9.1	2,537
3	Selective molecular sieving through porous graphene. Nature Nanotechnology, 2012, 7, 728-732.	31.5	998
4	A review on mechanics and mechanical properties of 2D materialsâ€"Graphene and beyond. Extreme Mechanics Letters, 2017, 13, 42-77.	4.1	920
5	Ultrastrong adhesion of graphene membranes. Nature Nanotechnology, 2011, 6, 543-546.	31.5	904
6	Band Gap Engineering with Ultralarge Biaxial Strains in Suspended Monolayer MoS₂. Nano Letters, 2016, 16, 5836-5841.	9.1	443
7	Coulomb Oscillations and Hall Effect in Quasi-2D Graphite Quantum Dots. Nano Letters, 2005, 5, 287-290.	9.1	301
8	Molecular valves for controlling gas phase transport made from discrete Ã¥ngstrÃ¶m-sized pores in graphene. Nature Nanotechnology, 2015, 10, 785-790.	31.5	122
9	Adhesion, Stiffness, and Instability in Atomically Thin MoS₂ Bubbles. Nano Letters, 2017, 17, 5329-5334.	9.1	92
10	Mechanics of Adhered, Pressurized Graphene Blisters. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	2.2	87
11	Ultrathin Oxide Films by Atomic Layer Deposition on Graphene. Nano Letters, 2012, 12, 3706-3710.	9.1	74
12	Graphene Blisters with Switchable Shapes Controlled by Pressure and Adhesion. Nano Letters, 2013, 13, 6216-6221.	9.1	70
13	Large Arrays and Properties of 3â€Terminal Graphene Nanoelectromechanical Switches. Advanced Materials, 2014, 26, 1571-1576.	21.0	55
14	Monolayer MoS₂ Strained to 1.3% With a Microelectromechanical System. Journal of Microelectromechanical Systems, 2019, 28, 254-263.	2.5	45
15	Observation of Pull-In Instability in Graphene Membranes under Interfacial Forces. Nano Letters, 2013, 13, 2309-2313.	9.1	40
16	Voltage gated inter-cation selective ion channels from graphene nanopores. Nanoscale, 2019, 11, 9856-9861.	5.6	37
17	Analysis of Time-Varying, Stochastic Gas Transport through Graphene Membranes. ACS Nano, 2016, 10, 786-795.	14.6	27
18	Transient thermal characterization of suspended monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> Physical Review Materials, 2018, 2, .	2.4	14

#	Article	IF	Citations
19	Putting a damper on nanoresonators. Nature Nanotechnology, 2011, 6, 331-332.	31.5	8
20	An all-optical actuation and detection scheme for studying dissipation and materials properties of NEMS resonators. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0