

J Scott Bunch

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

9,378
citations

471061

17
h-index

794141

19
g-index

20
all docs

20
docs citations

20
times ranked

12712
citing authors

#	ARTICLE	IF	CITATIONS
1	Electromechanical Resonators from Graphene Sheets. <i>Science</i> , 2007, 315, 490-493.	6.0	2,604
2	Impermeable Atomic Membranes from Graphene Sheets. <i>Nano Letters</i> , 2008, 8, 2458-2462.	4.5	2,537
3	Selective molecular sieving through porous graphene. <i>Nature Nanotechnology</i> , 2012, 7, 728-732.	15.6	998
4	A review on mechanics and mechanical properties of 2D materials—Graphene and beyond. <i>Extreme Mechanics Letters</i> , 2017, 13, 42-77.	2.0	920
5	Ultrastrong adhesion of graphene membranes. <i>Nature Nanotechnology</i> , 2011, 6, 543-546.	15.6	904
6	Band Gap Engineering with Ultralarge Biaxial Strains in Suspended Monolayer MoS ₂ . <i>Nano Letters</i> , 2016, 16, 5836-5841.	4.5	443
7	Coulomb Oscillations and Hall Effect in Quasi-2D Graphite Quantum Dots. <i>Nano Letters</i> , 2005, 5, 287-290.	4.5	301
8	Molecular valves for controlling gas phase transport made from discrete Ångström-sized pores in graphene. <i>Nature Nanotechnology</i> , 2015, 10, 785-790.	15.6	122
9	Adhesion, Stiffness, and Instability in Atomically Thin MoS ₂ Bubbles. <i>Nano Letters</i> , 2017, 17, 5329-5334.	4.5	92
10	Mechanics of Adhered, Pressurized Graphene Blisters. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013, 80, .	1.1	87
11	Ultrathin Oxide Films by Atomic Layer Deposition on Graphene. <i>Nano Letters</i> , 2012, 12, 3706-3710.	4.5	74
12	Graphene Blisters with Switchable Shapes Controlled by Pressure and Adhesion. <i>Nano Letters</i> , 2013, 13, 6216-6221.	4.5	70
13	Large Arrays and Properties of Terminal Graphene Nanoelectromechanical Switches. <i>Advanced Materials</i> , 2014, 26, 1571-1576.	11.1	55
14	Monolayer MoS ₂ Strained to 1.3% With a Microelectromechanical System. <i>Journal of Microelectromechanical Systems</i> , 2019, 28, 254-263.	1.7	45
15	Observation of Pull-In Instability in Graphene Membranes under Interfacial Forces. <i>Nano Letters</i> , 2013, 13, 2309-2313.	4.5	40
16	Voltage gated inter-cation selective ion channels from graphene nanopores. <i>Nanoscale</i> , 2019, 11, 9856-9861.	2.8	37
17	Analysis of Time-Varying, Stochastic Gas Transport through Graphene Membranes. <i>ACS Nano</i> , 2016, 10, 786-795.	7.3	27
18	Transient thermal characterization of suspended monolayer MoS ₂ . <i>Physical Review Materials</i> , 2018, 2, .		

#	ARTICLE	IF	CITATIONS
19	Putting a damper on nanoresonators. Nature Nanotechnology, 2011, 6, 331-332.	15.6	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