

# J Scott Bunch

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Voltage gated inter-cation selective ion channels from graphene nanopores. Nanoscale, 2019, 11, 9856-9861.	5.6	37
2	Monolayer MoS <sub>2</sub> Strained to 1.3% With a Microelectromechanical System. Journal of Microelectromechanical Systems, 2019, 28, 254-263.	2.5	45
3	Transient thermal characterization of suspended monolayer $\text{MoS}_2$ . Physical Review Materials, 2018, 2, .		
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	Adhesion, Stiffness, and Instability in Atomically Thin MoS <sub>2</sub> Bubbles. Nano Letters, 2017, 17, 5329-5334.	9.1	92
6	Band Gap Engineering with Ultralarge Biaxial Strains in Suspended Monolayer MoS <sub>2</sub> . Nano Letters, 2016, 16, 5836-5841.	9.1	443
7	Analysis of Time-Varying, Stochastic Gas Transport through Graphene Membranes. ACS Nano, 2016, 10, 786-795.	14.6	27
8	Molecular valves for controlling gas phase transport made from discrete Ångström-sized pores in graphene. Nature Nanotechnology, 2015, 10, 785-790.	31.5	122
9	Large Arrays and Properties of 3Å Terminal Graphene Nanoelectromechanical Switches. Advanced Materials, 2014, 26, 1571-1576.	21.0	55
10	Graphene Blisters with Switchable Shapes Controlled by Pressure and Adhesion. Nano Letters, 2013, 13, 6216-6221.	9.1	70
11	Observation of Pull-In Instability in Graphene Membranes under Interfacial Forces. Nano Letters, 2013, 13, 2309-2313.	9.1	40
12	Mechanics of Adhered, Pressurized Graphene Blisters. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	2.2	87
13	Ultrathin Oxide Films by Atomic Layer Deposition on Graphene. Nano Letters, 2012, 12, 3706-3710.	9.1	74
14	Selective molecular sieving through porous graphene. Nature Nanotechnology, 2012, 7, 728-732.	31.5	998
15	Putting a damper on nanoresonators. Nature Nanotechnology, 2011, 6, 331-332.	31.5	8
16	Ultrastrong adhesion of graphene membranes. Nature Nanotechnology, 2011, 6, 543-546.	31.5	904
17	Impermeable Atomic Membranes from Graphene Sheets. Nano Letters, 2008, 8, 2458-2462.	9.1	2,537
18	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

#	ARTICLE	IF	CITATIONS
19	Electromechanical Resonators from Graphene Sheets. Science, 2007, 315, 490-493.	12.6	2,604
20	Coulomb Oscillations and Hall Effect in Quasi-2D Graphite Quantum Dots. Nano Letters, 2005, 5, 287-290.	9.1	301