

J Scott Bunch

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

18
papers

7,702
citations

17
h-index

20
g-index

20
ext. papers

8,643
ext. citations

14.9
avg, IF

5.63
L-index

#	Paper	IF	Citations
18	Voltage gated inter-cation selective ion channels from graphene nanopores. <i>Nanoscale</i> , 2019 , 11, 9856-9861	2.5	23
17	Monolayer MoS2 Strained to 1.3% With a Microelectromechanical System. <i>Journal of Microelectromechanical Systems</i> , 2019 , 28, 254-263	2.5	25
16	Transient thermal characterization of suspended monolayer MoS2. <i>Physical Review Materials</i> , 2018 , 2,	3.2	9
15	A review on mechanics and mechanical properties of 2D materials Graphene and beyond. <i>Extreme Mechanics Letters</i> , 2017 , 13, 42-77	3.9	581
14	Adhesion, Stiffness, and Instability in Atomically Thin MoS Bubbles. <i>Nano Letters</i> , 2017 , 17, 5329-5334	11.5	54
13	Analysis of Time-Varying, Stochastic Gas Transport through Graphene Membranes. <i>ACS Nano</i> , 2016 , 10, 786-95	16.7	23
12	Band Gap Engineering with Ultralarge Biaxial Strains in Suspended Monolayer MoS2. <i>Nano Letters</i> , 2016 , 16, 5836-41	11.5	296
11	Molecular valves for controlling gas phase transport made from discrete μg -sized pores in graphene. <i>Nature Nanotechnology</i> , 2015 , 10, 785-90	28.7	100
10	Large arrays and properties of 3-terminal graphene nanoelectromechanical switches. <i>Advanced Materials</i> , 2014 , 26, 1571-6	24	46
9	Graphene blisters with switchable shapes controlled by pressure and adhesion. <i>Nano Letters</i> , 2013 , 13, 6216-21	11.5	55
8	Observation of pull-in instability in graphene membranes under interfacial forces. <i>Nano Letters</i> , 2013 , 13, 2309-13	11.5	34
7	Mechanics of Adhered, Pressurized Graphene Blisters. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013 , 80,	2.7	75
6	Ultrathin oxide films by atomic layer deposition on graphene. <i>Nano Letters</i> , 2012 , 12, 3706-10	11.5	66
5	Selective molecular sieving through porous graphene. <i>Nature Nanotechnology</i> , 2012 , 7, 728-32	28.7	829
4	Ultrastrong adhesion of graphene membranes. <i>Nature Nanotechnology</i> , 2011 , 6, 543-6	28.7	749
3	Impermeable atomic membranes from graphene sheets. <i>Nano Letters</i> , 2008 , 8, 2458-62	11.5	2140
2	Electromechanical resonators from graphene sheets. <i>Science</i> , 2007 , 315, 490-3	33.3	2320

- 1 Coulomb oscillations and Hall effect in quasi-2D graphite quantum dots. *Nano Letters*, **2005**, 5, 287-90 11.5 270