Paul L Mceuen

List of Publications by Year in Descending Order

36 papers	3,715 citations	19 h-index	41 g-index
41 ext. papers	4,376 ext. citations	16.7 avg, IF	5.41 L-index

#	Paper	IF	Citations
36	Dissipation-enabled hydrodynamic conductivity in a tunable bandgap semiconductor.. *Science Advances*, **2022**, 8, eabi8481	14.3	1
35	Cilia metasurfaces for electronically programmable microfluidic manipulation. *Nature*, **2022**, 605, 681-686	50.4	10
34	Micrometer-sized electrically programmable shape-memory actuators for low-power microrobotics. *Science Robotics*, **2021**, 6,	18.6	19
33	Accurate Measurement of the Gap of Graphene/h-BN Moiré Superlattice through Photocurrent Spectroscopy. *Physical Review Letters*, **2021**, 126, 146402	7.4	0
32	Bidirectional Self-Folding with Atomic Layer Deposition Nanofilms for Microscale Origami. *Nano Letters*, **2020**, 20, 4850-4856	11.5	12
31	Unconventional valley-dependent optical selection rules and landau level mixing in bilayer graphene. *Nature Communications*, **2020**, 11, 2941	17.4	3
30	Microscopic sensors using optical wireless integrated circuits. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 9173-9179	11.5	26
29	Fabrication of Injectable Micro-Scale Opto-Electronically Transduced Electrodes (MOTEs) for Physiological Monitoring. *Journal of Microelectromechanical Systems*, **2020**, 29, 720-726	2.5	10
28	Electronically integrated, mass-manufactured, microscopic robots. *Nature*, **2020**, 584, 557-561	50.4	77
27	Magnetic field detection limits for ultraclean graphene Hall sensors. *Nature Communications*, **2020**, 11, 4163	17.4	13
26	Real-time vibrations of a carbon nanotube. *Nature*, **2019**, 566, 89-93	50.4	32
25	Atomic Layer Deposition for Membranes, Metamaterials, and Mechanisms. *Advanced Materials*, **2019**, 31, e1901944	24	15
24	Capillary Origami with Atomically Thin Membranes. *Nano Letters*, **2019**, 19, 6221-6226	11.5	21
23	Micromechanical Systems: Atomic Layer Deposition for Membranes, Metamaterials, and Mechanisms (Adv. Mater. 29/2019). *Advanced Materials*, **2019**, 31, 1970212	24	
22	Magnetic handshake materials as a scale-invariant platform for programmed self-assembly. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 24402-24407	11.5	12
21	MoS pixel arrays for real-time photoluminescence imaging of redox molecules. *Science Advances*, **2019**, 5, eaat9476	14.3	13
20	Measuring and Manipulating the Adhesion of Graphene. *Nano Letters*, **2018**, 18, 449-454	11.5	20

19	Graphene-based bimorphs for micron-sized, autonomous origami machines. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 466-470	11.5	113
18	Young's modulus and thermal expansion of tensioned graphene membranes. *Physical Review B*, **2018**, 98,	3.3	16
17	A 250 µm × 57 µm Microscale Opto-electronically Transduced Electrodes (MOTEs) for Neural Recording. *IEEE Transactions on Biomedical Circuits and Systems*, **2018**, 12, 1256-1266	5.1	44
16	Tunable excitons in bilayer graphene. *Science*, **2017**, 358, 907-910	33.3	89
15	Tunable phonon-cavity coupling in graphene membranes. *Nature Nanotechnology*, **2016**, 11, 741-6	28.7	84
14	Graphene kirigami. *Nature*, **2015**, 524, 204-7	50.4	551
13	Magnetically Actuated Single-Walled Carbon Nanotubes. *Nano Letters*, **2015**, 15, 5143-8	11.5	8
12	Valleytronics. The valley Hall effect in MoS2 transistors. *Science*, **2014**, 344, 1489-92	33.3	1153
11	Atomic Imaging Across Strain Boundaries in Bilayer Graphene with ADF-STEM and DF-TEM. *Microscopy and Microanalysis*, **2014**, 20, 1058-1059	0.5	
10	Observation and spectroscopy of a two-electron Wigner molecule in an ultraclean carbon nanotube. *Nature Physics*, **2013**, 9, 576-581	16.2	63
9	Photocurrent measurements of supercollision cooling in graphene. *Nature Physics*, **2013**, 9, 103-108	16.2	219
8	High-Contrast Imaging of Graphene via Time-Domain Terahertz Spectroscopy. *Journal of Infrared, Millimeter, and Terahertz Waves*, **2012**, 33, 839-845	2.2	6
7	Electron Transport in Carbon Nanotubes. *Annual Review of Condensed Matter Physics*, **2010**, 1, 1-25	19.7	49
6	Thermal probing of energy dissipation in current-carrying carbon nanotubes. *Journal of Applied Physics*, **2009**, 105, 104306	2.5	86
5	Synthesizing the future. *ACS Chemical Biology*, **2008**, 3, 10-2	4.9	3
4	Transport in carbon nanotube p-i-n diodes. *Applied Physics Letters*, **2006**, 89, 163121	3.4	46
3	Measurement of the quantum capacitance of interacting electrons in carbon nanotubes. *Nature Physics*, **2006**, 2, 687-691	16.2	227
2	Electron–Phonon Scattering in Metallic Single-Walled Carbon Nanotubes. *Nano Letters*, **2004**, 4, 517-520	11.5	594

1 Electrical cutting and nicking of carbon nanotubes using an atomic force microscope. *Applied Physics Letters*, **2002**, 80, 4446-4448 3.4 79