

# Jeremy Robinson

## List of Publications by Citations

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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.

115  
papers

6,984  
citations

38  
h-index

82  
g-index

123  
ext. papers

7,672  
ext. citations

8.3  
avg, IF

5.69  
L-index

#	Paper	IF	Citations
115	Reduced graphene oxide molecular sensors. <i>Nano Letters</i> , <b>2008</b> , 8, 3137-40	11.5	1484
114	Properties of fluorinated graphene films. <i>Nano Letters</i> , <b>2010</b> , 10, 3001-5	11.5	867
113	Wafer-scale reduced graphene oxide films for nanomechanical devices. <i>Nano Letters</i> , <b>2008</b> , 8, 3441-5	11.5	348
112	Electrical detection of charge-current-induced spin polarization due to spin-momentum locking in Bi <sub>2</sub> Se <sub>3</sub> . <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 218-24	28.7	309
111	Manipulating thermal conductance at metal-graphene contacts via chemical functionalization. <i>Nano Letters</i> , <b>2012</b> , 12, 590-5	11.5	191
110	Graphene as a tunnel barrier: graphene-based magnetic tunnel junctions. <i>Nano Letters</i> , <b>2012</b> , 12, 3000-4	11.5	172
109	Evidence for interlayer coupling and moiré periodic potentials in twisted bilayer graphene. <i>Physical Review Letters</i> , <b>2012</b> , 109, 186807	7.4	146
108	Real-time DNA detection using reduced graphene oxide field effect transistors. <i>Advanced Materials</i> , <b>2010</b> , 22, 5297-300	24	135
107	Large-Area Synthesis of Continuous and Uniform MoS <sub>2</sub> Monolayer Films on Graphene. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 6449-6454	15.6	124
106	Fluorination of graphene enhances friction due to increased corrugation. <i>Nano Letters</i> , <b>2014</b> , 14, 5212-7	11.5	118
105	Chemical gradients on graphene to drive droplet motion. <i>ACS Nano</i> , <b>2013</b> , 7, 4746-55	16.7	118
104	Low-resistance spin injection into silicon using graphene tunnel barriers. <i>Nature Nanotechnology</i> , <b>2012</b> , 7, 737-42	28.7	116
103	Atomically thin heterostructures based on single-layer tungsten diselenide and graphene. <i>Nano Letters</i> , <b>2014</b> , 14, 6936-41	11.5	113
102	High-quality uniform dry transfer of graphene to polymers. <i>Nano Letters</i> , <b>2012</b> , 12, 102-7	11.5	112
101	Quantifying pulsed laser induced damage to graphene. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 211909	3.4	109
100	Chemical stability of graphene fluoride produced by exposure to XeF <sub>2</sub> . <i>Nano Letters</i> , <b>2013</b> , 13, 4311-6	11.5	97
99	The functionalization of graphene using electron-beam generated plasmas. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 231501	3.4	95

98	Shear modulus of monolayer graphene prepared by chemical vapor deposition. <i>Nano Letters</i> , <b>2012</b> , 12, 1013-7	11.5	93
97	Direct mechanochemical cleavage of functional groups from graphene. <i>Nature Communications</i> , <b>2015</b> , 6, 6467	17.4	90
96	Reduction of graphene oxide by electron beam generated plasmas produced in methane/argon mixtures. <i>Carbon</i> , <b>2010</b> , 48, 3382-3390	10.4	89
95	Tuning the electronic properties of graphene by hydrogenation in a plasma enhanced chemical vapor deposition reactor. <i>Carbon</i> , <b>2011</b> , 49, 4420-4426	10.4	87
94	Fabrication, optimization, and use of graphene field effect sensors. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 509-218	17.8	84
93	Low-energy electron reflectivity from graphene. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	76
92	Chemically isolated graphene nanoribbons reversibly formed in fluorographene using polymer nanowire masks. <i>Nano Letters</i> , <b>2011</b> , 11, 5461-4	11.5	74
91	Electronic hybridization of large-area stacked graphene films. <i>ACS Nano</i> , <b>2013</b> , 7, 637-44	16.7	72
90	High-density amine-terminated monolayers formed on fluorinated CVD-grown graphene. <i>Langmuir</i> , <b>2012</b> , 28, 7957-61	4	63
89	Graphene as Electrophile: Reactions of Graphene Fluoride. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 10507-10512	3.8	59
88	Aminated graphene for DNA attachment produced via plasma functionalization. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 233123	3.4	59
87	Homoepitaxial tunnel barriers with functionalized graphene-on-graphene for charge and spin transport. <i>Nature Communications</i> , <b>2014</b> , 5, 3161	17.4	58
86	Engineering graphene mechanical systems. <i>Nano Letters</i> , <b>2012</b> , 12, 4212-8	11.5	58
85	Modifying Surface Energy of Graphene via Plasma-Based Chemical Functionalization to Tune Thermal and Electrical Transport at Metal Interfaces. <i>Nano Letters</i> , <b>2015</b> , 15, 4876-82	11.5	54
84	van der Waals screening by single-layer graphene and molybdenum disulfide. <i>ACS Nano</i> , <b>2014</b> , 8, 12410-7	16.7	54
83	Nitrogen-Doped Graphene and Twisted Bilayer Graphene via Hyperthermal Ion Implantation with Depth Control. <i>ACS Nano</i> , <b>2016</b> , 10, 3714-22	16.7	51
82	Patterning magnetic regions in hydrogenated graphene via e-beam irradiation. <i>Advanced Materials</i> , <b>2015</b> , 27, 1774-8	24	48
81	Correlation between structure and electrical transport in ion-irradiated graphene grown on Cu foils. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 032102	3.4	47

80	Chemical hydrogenation of single-layer graphene enables completely reversible removal of electrical conductivity. <i>Carbon</i> , <b>2014</b> , 72, 348-353	10.4	41
79	Low-energy electron point projection microscopy of suspended graphene, the ultimate microscope slide. <i>New Journal of Physics</i> , <b>2011</b> , 13, 063011	2.9	41
78	Instability of two-dimensional graphene: Breaking sp <sup>2</sup> bonds with soft x rays. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	38
77	Ultrathin single crystal diamond nanomechanical dome resonators. <i>Nano Letters</i> , <b>2011</b> , 11, 4304-8	11.5	37
76	Nanoscale reduction of graphene fluoride via thermochemical nanolithography. <i>ACS Nano</i> , <b>2013</b> , 7, 6219-24	11.4	36
75	Rotational disorder in twisted bilayer graphene. <i>ACS Nano</i> , <b>2014</b> , 8, 1655-63	16.7	34
74	Total ionizing dose-hardened carbon nanotube thin-film transistors with silicon oxynitride gate dielectrics. <i>MRS Communications</i> , <b>2011</b> , 1, 27-31	2.7	34
73	Effects of molecular adsorption on the electronic structure of single-layer graphene. <i>Langmuir</i> , <b>2011</b> , 27, 11026-36	4	33
72	Hydrogenated Graphene as a Homoepitaxial Tunnel Barrier for Spin and Charge Transport in Graphene. <i>ACS Nano</i> , <b>2015</b> , 9, 6747-55	16.7	32
71	Radiation Effects in Carbon Nanoelectronics. <i>Electronics (Switzerland)</i> , <b>2012</b> , 1, 23-31	2.6	31
70	Global faceting behavior of strained Ge islands on Si. <i>Nanotechnology</i> , <b>2009</b> , 20, 085708	3.4	31
69	Graphene-Based Magnetic Tunnel Junctions. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 4343-4346	2	30
68	Total Ionizing Dose Induced Charge Carrier Scattering in Graphene Devices. <i>IEEE Transactions on Nuclear Science</i> , <b>2012</b> , 59, 3045-3053	1.7	29
67	Controlling the local chemical reactivity of graphene through spatial functionalization. <i>Carbon</i> , <b>2013</b> , 60, 84-93	10.4	29
66	Long-range atomic ordering and variable interlayer interactions in two overlapping graphene lattices with stacking misorientations. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	26
65	Metal-induced assembly of a semiconductor island lattice: Ge truncated pyramids on Au-patterned Si. <i>Nano Letters</i> , <b>2005</b> , 5, 2070-3	11.5	24
64	Direct observation of minibands in a twisted graphene/WS bilayer. <i>Science Advances</i> , <b>2020</b> , 6, eaay6104	14.3	22
63	Graphene Strained by Defects. <i>ACS Nano</i> , <b>2017</b> , 11, 4745-4752	16.7	21

62	Radiation Effects in Single-Walled Carbon Nanotube Thin-Film-Transistors. <i>IEEE Transactions on Nuclear Science</i> , <b>2010</b> ,	1.7	21
61	Electrical and electrochemical characterization of proton transfer at the interface between chitosan and PdHx. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 11083-11091	7.1	20
60	Spin transport and Hanle effect in silicon nanowires using graphene tunnel barriers. <i>Nature Communications</i> , <b>2015</b> , 6, 7541	17.4	20
59	Carrier heating and negative photoconductivity in graphene. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 015101	11.5	19
58	Robust reduction of graphene fluoride using an electrostatically biased scanning probe. <i>Nano Research</i> , <b>2013</b> , 6, 767-774	10	19
57	Raman signature of defected twisted bilayer graphene. <i>Carbon</i> , <b>2015</b> , 93, 250-257	10.4	19
56	Electronic transport and localization in nitrogen-doped graphene devices using hyperthermal ion implantation. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	18
55	Gold-catalyzed oxide nanopatterns for the directed assembly of Ge island arrays on Si. <i>Nano Letters</i> , <b>2007</b> , 7, 2655-9	11.5	18
54	Reducing flicker noise in chemical vapor deposition graphene field-effect transistors. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 073108	3.4	17
53	Oxygen-Induced In Situ Manipulation of the Interlayer Coupling and Exciton Recombination in BiSe/MoS 2D Heterostructures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 15913-15921	9.5	16
52	Low temperature elastic properties of chemically reduced and CVD-grown graphene thin films. <i>Diamond and Related Materials</i> , <b>2010</b> , 19, 875-878	3.5	16
51	Extraordinary magnetoresistance in shunted chemical vapor deposition grown graphene devices. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 022108	3.4	16
50	Transfer of Chemically Modified Graphene with Retention of Functionality for Surface Engineering. <i>Nano Letters</i> , <b>2016</b> , 16, 1455-61	11.5	15
49	Disordered Nanomaterials for Chemielectric Vapor Sensing: A Review. <i>IEEE Sensors Journal</i> , <b>2015</b> , 15, 1301-1320	4	14
48	Printing Highly Controlled Suspended Carbon Nanotube Network on Micro-patterned Superhydrophobic Flexible Surface. <i>Scientific Reports</i> , <b>2015</b> , 5, 15908	4.9	14
47	Plasma-based chemical functionalization of graphene to control the thermal transport at graphene-metal interfaces. <i>Surface and Coatings Technology</i> , <b>2017</b> , 314, 148-154	4.4	12
46	Work Function Variations in Twisted Graphene Layers. <i>Scientific Reports</i> , <b>2018</b> , 8, 2006	4.9	12
45	Chemical Nanomachining of Silicon by Gold-Catalyzed Oxidation. <i>Nano Letters</i> , <b>2007</b> , 7, 2009-2013	11.5	12

44	Observation of Electrically Tunable van Hove Singularities in Twisted Bilayer Graphene from NanoARPES. <i>Advanced Materials</i> , <b>2020</b> , 32, e2001656	24	11
43	TEM imaging of unstained DNA nanostructures using suspended graphene. <i>Soft Matter</i> , <b>2013</b> , 9, 1414-1417	17	11
42	Physical properties of nanometer graphene oxide films partially and fully reduced by annealing in ultra-high vacuum. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 075301	2.5	11
41	Sculpting semiconductor heteroepitaxial islands: from dots to rods. <i>Physical Review Letters</i> , <b>2007</b> , 98, 106102	7.4	11
40	On the interpretation of ledge bright spot contrast effects in field ion microscope images. <i>Philosophical Magazine and Journal</i> , <b>1973</b> , 27, 1417-1432		11
39	Unexpected Near-Infrared to Visible Nonlinear Optical Properties from 2-D Polar Metals. <i>Nano Letters</i> , <b>2020</b> , 20, 8312-8318	11.5	11
38	Enhancing the stiffness of vertical graphene sheets through ion beam irradiation and fluorination. <i>Nanotechnology</i> , <b>2017</b> , 28, 295701	3.4	10
37	Protection from Below: Stabilizing Hydrogenated Graphene Using Graphene Underlayers. <i>Langmuir</i> , <b>2017</b> , 33, 13749-13756	4	10
36	Bilayer graphene by bonding CVD graphene to epitaxial graphene. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2012</b> , 30, 03D110	1.3	10
35	Enabling remote quantum emission in 2D semiconductors via porous metallic networks. <i>Nature Communications</i> , <b>2020</b> , 11, 5	17.4	10
34	Graphene and monolayer transition-metal dichalcogenides: properties and devices. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 845-877	2.5	10
33	In search of quantum-limited contact resistance: understanding the intrinsic and extrinsic effects on the graphene-metal interface. <i>2D Materials</i> , <b>2016</b> , 3, 025013	5.9	10
32	Spin relaxation and proximity effect in WS <sub>2</sub> /graphene/fluorographene non-local spin valves. <i>Carbon</i> , <b>2018</b> , 131, 18-25	10.4	9
31	Etch free graphene transfer to polymers. <i>Surface and Coatings Technology</i> , <b>2014</b> , 241, 118-122	4.4	9
30	Structural transformations in chemically modified graphene. <i>Solid State Communications</i> , <b>2012</b> , 152, 1990-1998	10.6	9
29	Activation of radical addition to graphene by chemical hydrogenation. <i>RSC Advances</i> , <b>2016</b> , 6, 93356-93362	5.7	8
28	Metallicity of 2H-MoS <sub>2</sub> induced by Au hybridization. <i>2D Materials</i> , <b>2020</b> , 7, 025021	5.9	7
27	A graphene solution to conductivity mismatch: Spin injection from ferromagnetic metal/graphene tunnel contacts into silicon. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 17C502	2.5	7

26	Field emission energy distribution and three-terminal current-voltage characteristics from planar graphene edges. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 054502	2.5	6
25	Dry graphene transfer print to polystyrene and ultra-high molecular weight polyethylene □ Detailed chemical, structural, morphological and electrical characterization. <i>Carbon</i> , <b>2015</b> , 86, 288-300	10.4	6
24	Ultrafast terahertz Faraday rotation in graphene. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 214302	2.5	6
23	Fluorinated Carbon Nanomaterials: XeF <sub>2</sub> Fluorination of Graphene. <i>ACS Symposium Series</i> , <b>2011</b> , 11-30	0.4	6
22	Homoepitaxial graphene tunnel barriers for spin transport. <i>AIP Advances</i> , <b>2016</b> , 6, 056301	1.5	6
21	Transferring Electronic Devices with Hydrogenated Graphene. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1801974	4.6	5
20	Enhanced protonic conductivity and IFET behavior in individual proton-doped electrospun chitosan fibers. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 10833-10840	7.1	5
19	Modification of mechanical properties of vertical graphene sheets via fluorination. <i>RSC Advances</i> , <b>2016</b> , 6, 11161-11166	3.7	4
18	Internal Friction and Shear Modulus of Graphene Films. <i>Solid State Phenomena</i> , <b>2012</b> , 184, 319-324	0.4	4
17	Chemical Mapping of Unstained DNA Origami Using STEM/EDS and Graphene Supports. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 1123-1130	5.6	3
16	Acoustic cavities in 2D heterostructures. <i>Nature Communications</i> , <b>2021</b> , 12, 3267	17.4	3
15	Fluorinated Graphene Enables the Growth of Inorganic Thin Films by Chemical Bath Deposition on Otherwise Inert Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 677-683	9.5	2
14	Characterizing Multi-layer Pristine Graphene, Its Contaminants, and Their Origin Using Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 1740-1741	0.5	2
13	Morphological evolution of Ge islands on Au-patterned Si. <i>Journal of Crystal Growth</i> , <b>2006</b> , 287, 518-521	1.6	2
12	Electronic Changes in Molybdenum Dichalcogenides on Gold Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 25361-25368	3.8	2
11	In Operando Angle-Resolved Photoemission Spectroscopy with Nanoscale Spatial Resolution: Spatial Mapping of the Electronic Structure of Twisted Bilayer Graphene. <i>Small Science</i> , <b>2021</b> , 1, 2000075		2
10	Aberration-Corrected Scanning Transmission Electron Microscopy and Energy-Dispersive Spectral Maps of DNA Origami Triangles Using Graphene Supports. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 386-387	0.5	2
9	Chemistries for Making Additive Nanolithography in OrmoComp Permissive for Cell Adhesion and Growth. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 19793-19798	9.5	1

8	Ge island assembly on metal-patterned Si: truncated pyramids, nanorods, and beyond. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2008</b> , 8, 56-68	1.3	1
7	Hydrogen-assisted graphene transfer: surface engineering for chemical, electronic, and biological applications <b>2018</b> ,		1
6	Room-Temperature Spin Transport in CdAs. <i>ACS Nano</i> , <b>2021</b> , 15, 5459-5466	16.7	1
5	Lattice Registry and Evidence for Surface Reconstructions of Metal Films on Suspended 2D Membranes Following Annealing. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 1516-1517	0.5	
4	Ordering and shape tuning of Ge islands on metal-patterned Si. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 958, 1		
3	Graphene-enabled block copolymer lithography transfer to arbitrary substrates. <i>Nano Express</i> , <b>2021</b> , 2, 014009		2
2	Thermally induced reactions of monolayer WS <sub>2</sub> with Au-Ti substrates. <i>Applied Surface Science</i> , <b>2021</b> , 542, 148576	6.7	
1	Study of Helium-Ion-Beam-Generated Defects in a Monolayer WS <sub>2</sub> Using Aberration-Corrected Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 1596-1597	0.5	