

# Kevin M Daniels

## List of Publications by Year in descending order

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49  
papers

984  
citations

623734

14  
h-index

434195

31  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1900  
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-time ultra-sensitive detection of SARS-CoV-2 by quasi-freestanding epitaxial graphene-based biosensor. <i>Biosensors and Bioelectronics</i> , 2022, 197, 113803.	10.1	29
2	Plasmonic Terahertz Nonlinearity in Graphene Disks. <i>Advanced Photonics Research</i> , 2022, 3, .	3.6	2
3	Plasmonic Terahertz Nonlinearity in Graphene Disks. <i>Advanced Photonics Research</i> , 2022, 3, 2100218.	3.6	3
4	Phonon assisted electron emission from quasi-freestanding bilayer epitaxial graphene microstructures. <i>Nanotechnology</i> , 2022, 33, 375202.	2.6	0
5	EGaIn-Silicone-based highly stretchable and flexible strain sensor for real-time two joint robotic motion monitoring. <i>Sensors and Actuators A: Physical</i> , 2022, 342, 113659.	4.1	12
6	Magnesium-intercalated graphene on SiC: Highly n-doped air-stable bilayer graphene at extreme displacement fields. <i>Applied Surface Science</i> , 2021, 541, 148612.	6.1	11
7	Observation of strong magneto plasmonic nonlinearity in bilayer graphene discs. <i>JPhys Photonics</i> , 2021, 3, 01LT01.	4.6	2
8	Increasing the Rate of Magnesium Intercalation Underneath Epitaxial Graphene on 6H-SiC(0001). <i>Advanced Materials Interfaces</i> , 2021, 8, 2101598.	3.7	6
9	Freestanding n-Doped Graphene via Intercalation of Calcium and Magnesium into the Buffer Layer-SiC(0001) Interface. <i>Chemistry of Materials</i> , 2020, 32, 6464-6482.	6.7	28
10	Fast Selective Sensing of Nitrogen-Based Gases Utilizing $\gamma$ -MnO <sub>2</sub> -Epitaxial Graphene-Silicon Carbide Heterostructures for Room Temperature Gas Sensing. <i>Journal of Microelectromechanical Systems</i> , 2020, 29, 846-852.	2.5	6
11	Magnetically Tuned THz Nonlinearity in Bilayer Graphene Disc Arrays. , 2020, , .		0
12	Effect of defect-induced cooling on graphene hot-electron bolometers. <i>Carbon</i> , 2019, 154, 497-502.	10.3	15
13	Tailoring commensurability of hBN/graphene heterostructures using substrate morphology and epitaxial growth conditions. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019, 37, 051503.	2.1	6
14	On the doping concentration dependence and dopant selectivity of photogenerated carrier assisted etching of 4H-SiC epilayers. <i>Electrochimica Acta</i> , 2019, 323, 134778.	5.2	3
15	Optical Control of Plasmonic Hot Carriers in Graphene. <i>ACS Photonics</i> , 2019, 6, 302-307.	6.6	20
16	Ultra-broadband photodetectors based on epitaxial graphene quantum dots. <i>Nanophotonics</i> , 2018, 7, 735-740.	6.0	28
17	Sub-bandgap response of graphene/SiC Schottky emitter bipolar phototransistor examined by scanning photocurrent microscopy. <i>2D Materials</i> , 2018, 5, 011003.	4.4	7
18	Surface potential and thin film quality of low work function metals on epitaxial graphene. <i>Scientific Reports</i> , 2018, 8, 16487.	3.3	13

#	ARTICLE	IF	CITATIONS
19	Polarity governs atomic interaction through two-dimensional materials. <i>Nature Materials</i> , 2018, 17, 999-1004.	27.5	182
20	Processing of Cavities in SiC Material for Quantum Technologies. <i>Materials Science Forum</i> , 2018, 924, 905-908.	0.3	3
21	Narrow plasmon resonances enabled by quasi-freestanding bilayer epitaxial graphene. <i>2D Materials</i> , 2017, 4, 025034.	4.4	35
22	Universal conformal ultrathin dielectrics on epitaxial graphene enabled by a graphene oxide seed layer. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	8
23	Narrow terahertz plasmon resonance of quasi-freestanding bilayer epitaxial graphene. , 2016, , .		1
24	Epitaxial graphene (EG)/SiC based Schottky emitter bipolar phototransistors for UV detection and effect of hydrogen intercalation on device I-V characteristics. , 2016, , .		0
25	Graphene plasmonics for terahertz photonics. , 2016, , .		0
26	Impedance spectroscopic analysis of nanoparticle functionalized graphene/p-Si Schottky diode sensors. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 110312.	1.5	7
27	SiC Homoepitaxy, Etching and Graphene Epitaxial Growth on SiC Substrates Using a Novel Fluorinated Si Precursor Gas (SiF <sub>4</sub> ). <i>Journal of Electronic Materials</i> , 2016, 45, 2019-2024.	2.2	5
28	Metal Catalyzed Electrochemical Synthesis of Hydrocarbons from Epitaxial Graphene. <i>Journal of the Electrochemical Society</i> , 2016, 163, E130-E134.	2.9	5
29	Epitaxial graphene quantum dots for high-performance terahertz bolometers. <i>Nature Nanotechnology</i> , 2016, 11, 335-338.	31.5	116
30	Terahertz Plasmon Resonances in Graphene-Filled Subwavelength Metallic Apertures. , 2016, , .		0
31	Mechanism of Electrochemical Hydrogenation of Epitaxial Graphene. <i>Journal of the Electrochemical Society</i> , 2015, 162, E37-E42.	2.9	11
32	Epitaxial growth of graphene on SiC by Si selective etching using SiF <sub>4</sub> in an inert ambient. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 030304.	1.5	13
33	Tunable Terahertz Hybrid Metal-Graphene Plasmons. <i>Nano Letters</i> , 2015, 15, 7099-7104.	9.1	135
34	Impedance spectroscopic analysis of Functionalized Graphene/silicon Schottky Diode sensor. , 2015, , .		0
35	Revealing the electronic band structure of quasi-free trilayer graphene on SiC(0001). <i>Materials Research Society Symposia Proceedings</i> , 2014, 1693, 159.	0.1	3
36	Revealing the electronic band structure of trilayer graphene on SiC: An angle-resolved photoemission study. <i>Physical Review B</i> , 2013, 88, .	3.2	73

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37	Selective multimodal gas sensing in epitaxial graphene by fourier transform infrared spectroscopy. , 2013, , .		0
38	Si-adatom kinetics in defect mediated growth of multilayer epitaxial graphene films on 6H-SiC. Journal of Applied Physics, 2013, 114, 164903.	2.5	7
39	Electrochemical Hydrogenation of Dimensional Carbon. ECS Transactions, 2013, 58, 439-445.	0.5	4
40	Study of Epitaxial Graphene on Non-Polar 6H-SiC Faces. Materials Science Forum, 2012, 717-720, 633-636.	0.3	2
41	Comparison of Epitaxial Graphene Growth on Polar and Nonpolar 6H-SiC Faces: On the Growth of Multilayer Films. Crystal Growth and Design, 2012, 12, 3379-3387.	3.0	30
42	Molecular Gas Adsorption Induced Carrier Transport Studies of Epitaxial Graphene Using IR Reflection Spectroscopy. Materials Science Forum, 2012, 717-720, 665-668.	0.3	5
43	Evidences of electrochemical graphene functionalization and substrate dependence by Raman and scanning tunneling spectroscopies. Journal of Applied Physics, 2012, 111, 114306.	2.5	22
44	Polariton enhanced infrared reflection of epitaxial graphene. Journal of Applied Physics, 2011, 110, .	2.5	22
45	Morphology characterization of argon-mediated epitaxial graphene on C-face SiC. Applied Physics Letters, 2010, 96, .	3.3	77
46	Self-aligned ALD AlO <sub>x</sub> T-gate insulator for gate leakage current suppression in SiN <sub>x</sub> -passivated AlGa <sub>N</sub> /Ga <sub>N</sub> HEMTs. Solid-State Electronics, 2010, 54, 1098-1104.	1.4	21
47	Self-aligned ALD AlO <sub>x</sub> T-gate footprint insulator for gate leakage current suppression in SiN <sub>x</sub> -passivated AlGa <sub>N</sub> /Ga <sub>N</sub> HEMTs. , 2009, , .		0
48	A novel etching technique for crystallographic study of SiC materials. , 2009, , .		0
49	Evidence of Electrochemical Graphene Functionalization by Raman Spectroscopy. Materials Science Forum, 0, 717-720, 661-664.	0.3	5