

Kevin M Daniels

List of Publications by Year in descending order

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49
papers

984
citations

623188

14
h-index

433756

31
g-index

50
all docs

50
docs citations

50
times ranked

1900
citing authors

#	ARTICLE	IF	CITATIONS
1	Polarity governs atomic interaction through two-dimensional materials. <i>Nature Materials</i> , 2018, 17, 999-1004.	13.3	182
2	Tunable Terahertz Hybrid Metal-Graphene Plasmons. <i>Nano Letters</i> , 2015, 15, 7099-7104.	4.5	135
3	Epitaxial graphene quantum dots for high-performance terahertz bolometers. <i>Nature Nanotechnology</i> , 2016, 11, 335-338.	15.6	116
4	Morphology characterization of argon-mediated epitaxial graphene on C-face SiC. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	77
5	Revealing the electronic band structure of trilayer graphene on SiC: An angle-resolved photoemission study. <i>Physical Review B</i> , 2013, 88, .	1.1	73
6	Narrow plasmon resonances enabled by quasi-freestanding bilayer epitaxial graphene. <i>2D Materials</i> , 2017, 4, 025034.	2.0	35
7	Comparison of Epitaxial Graphene Growth on Polar and Nonpolar 6H-SiC Faces: On the Growth of Multilayer Films. <i>Crystal Growth and Design</i> , 2012, 12, 3379-3387.	1.4	30
8	Real-time ultra-sensitive detection of SARS-CoV-2 by quasi-freestanding epitaxial graphene-based biosensor. <i>Biosensors and Bioelectronics</i> , 2022, 197, 113803.	5.3	29
9	Ultra-broadband photodetectors based on epitaxial graphene quantum dots. <i>Nanophotonics</i> , 2018, 7, 735-740.	2.9	28
10	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.	3.2	28
11	Polariton enhanced infrared reflection of epitaxial graphene. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	22
12	Evidences of electrochemical graphene functionalization and substrate dependence by Raman and scanning tunneling spectroscopies. <i>Journal of Applied Physics</i> , 2012, 111, 114306.	1.1	22
13	Self-aligned ALD AlOx T-gate insulator for gate leakage current suppression in SiNx-passivated AlGaIn/GaN HEMTs. <i>Solid-State Electronics</i> , 2010, 54, 1098-1104.	0.8	21
14	Optical Control of Plasmonic Hot Carriers in Graphene. <i>ACS Photonics</i> , 2019, 6, 302-307.	3.2	20
15	Effect of defect-induced cooling on graphene hot-electron bolometers. <i>Carbon</i> , 2019, 154, 497-502.	5.4	15
16	Epitaxial growth of graphene on SiC by Si selective etching using SiF4 in an inert ambient. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 030304.	0.8	13
17	Surface potential and thin film quality of low work function metals on epitaxial graphene. <i>Scientific Reports</i> , 2018, 8, 16487.	1.6	13
18	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.	2.0	12

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19	Mechanism of Electrochemical Hydrogenation of Epitaxial Graphene. <i>Journal of the Electrochemical Society</i> , 2015, 162, E37-E42.	1.3	11
20	Magnesium-intercalated graphene on SiC: Highly n-doped air-stable bilayer graphene at extreme displacement fields. <i>Applied Surface Science</i> , 2021, 541, 148612.	3.1	11
21	Universal conformal ultrathin dielectrics on epitaxial graphene enabled by a graphene oxide seed layer. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	8
22	Si-adatom kinetics in defect mediated growth of multilayer epitaxial graphene films on 6H-SiC. <i>Journal of Applied Physics</i> , 2013, 114, 164903.	1.1	7
23	Impedance spectroscopic analysis of nanoparticle functionalized graphene/p-Si Schottky diode sensors. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 110312.	0.8	7
24	Sub-bandgap response of graphene/SiC Schottky emitter bipolar phototransistor examined by scanning photocurrent microscopy. <i>2D Materials</i> , 2018, 5, 011003.	2.0	7
25	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.	0.9	6
26	Fast Selective Sensing of Nitrogen-Based Gases Utilizing γ -MnO ₂ -Epitaxial Graphene-Silicon Carbide Heterostructures for Room Temperature Gas Sensing. <i>Journal of Microelectromechanical Systems</i> , 2020, 29, 846-852.	1.7	6
27	Increasing the Rate of Magnesium Intercalation Underneath Epitaxial Graphene on 6H-SiC(0001). <i>Advanced Materials Interfaces</i> , 2021, 8, 2101598.	1.9	6
28	Evidence of Electrochemical Graphene Functionalization by Raman Spectroscopy. <i>Materials Science Forum</i> , 0, 717-720, 661-664.	0.3	5
29	Molecular Gas Adsorption Induced Carrier Transport Studies of Epitaxial Graphene Using IR Reflection Spectroscopy. <i>Materials Science Forum</i> , 2012, 717-720, 665-668.	0.3	5
30	SiC Homoepitaxy, Etching and Graphene Epitaxial Growth on SiC Substrates Using a Novel Fluorinated Si Precursor Gas (SiF ₄). <i>Journal of Electronic Materials</i> , 2016, 45, 2019-2024.	1.0	5
31	Metal Catalyzed Electrochemical Synthesis of Hydrocarbons from Epitaxial Graphene. <i>Journal of the Electrochemical Society</i> , 2016, 163, E130-E134.	1.3	5
32	Electrochemical Hydrogenation of Dimensional Carbon. <i>ECS Transactions</i> , 2013, 58, 439-445.	0.3	4
33	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
34	Processing of Cavities in SiC Material for Quantum Technologies. <i>Materials Science Forum</i> , 2018, 924, 905-908.	0.3	3
35	On the doping concentration dependence and dopant selectivity of photogenerated carrier assisted etching of 4H-SiC epilayers. <i>Electrochimica Acta</i> , 2019, 323, 134778.	2.6	3
36	Plasmonic Terahertz Nonlinearity in Graphene Disks. <i>Advanced Photonics Research</i> , 2022, 3, 2100218.	1.7	3

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37	Study of Epitaxial Graphene on Non-Polar 6H-SiC Faces. Materials Science Forum, 2012, 717-720, 633-636.	0.3	2
38	Observation of strong magneto plasmonic nonlinearity in bilayer graphene discs. JPhys Photonics, 2021, 3, 01LT01.	2.2	2
39	Plasmonic Terahertz Nonlinearity in Graphene Disks. Advanced Photonics Research, 2022, 3, .	1.7	2
40	Narrow terahertz plasmon resonance of quasi-freestanding bilayer epitaxial graphene. , 2016, , .		1
41	Self-aligned ALD AlO _x /T-gate footprint insulator for gate leakage current suppression in SiN/passivated AlGaIn/GaN HEMTs. , 2009, , .		0
42	A novel etching technique for crystallographic study of SiC materials. , 2009, , .		0
43	Selective multimodal gas sensing in epitaxial graphene by fourier transform infrared spectroscopy. , 2013, , .		0
44	Impedance spectroscopic analysis of Functionalized Graphene/silicon Schottky Diode sensor. , 2015, , .		0
45	Epitaxial graphene (EG)/SiC based Schottky emitter bipolar phototransistors for UV detection and effect of hydrogen intercalation on device I-V characteristics. , 2016, , .		0
46	Graphene plasmonics for terahertz photonics. , 2016, , .		0
47	Terahertz Plasmon Resonances in Graphene-Filled Subwavelength Metallic Apertures. , 2016, , .		0
48	Magnetically Tuned THz Nonlinearity in Bilayer Graphene Disc Arrays. , 2020, , .		0
49	Phonon assisted electron emission from quasi-freestanding bilayer epitaxial graphene microstructures. Nanotechnology, 2022, 33, 375202.	1.3	0