Adam T Neal

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#	Paper	IF	Citations
36	Phosphorene: an unexplored 2D semiconductor with a high hole mobility. <i>ACS Nano</i> , 2014 , 8, 4033-41	16.7	4487
35	Channel length scaling of MoS2 MOSFETs. ACS Nano, 2012, 6, 8563-9	16.7	594
34	Switching mechanism in single-layer molybdenum disulfide transistors: an insight into current flow across Schottky barriers. <i>ACS Nano</i> , 2014 , 8, 1031-8	16.7	202
33	Molecular Doping of Multilayer \${rm MoS}_{2}\$ Field-Effect Transistors: Reduction in Sheet and Contact Resistances. <i>IEEE Electron Device Letters</i> , 2013 , 34, 1328-1330	4.4	196
32	Demonstration of high mobility and quantum transport in modulation-doped E(AlxGa1-x)2O3/Ga2O3 heterostructures. <i>Applied Physics Letters</i> , 2018 , 112, 173502	3.4	192
31	Statistical study of deep submicron dual-gated field-effect transistors on monolayer chemical vapor deposition molybdenum disulfide films. <i>Nano Letters</i> , 2013 , 13, 2640-6	11.5	168
30	Donors and deep acceptors in EGa2O3. <i>Applied Physics Letters</i> , 2018 , 113, 062101	3.4	148
29	The Effect of Dielectric Capping on Few-Layer Phosphorene Transistors: Tuning the Schottky Barrier Heights. <i>IEEE Electron Device Letters</i> , 2014 , 35, 795-797	4.4	142
28	Ge-Doped \${beta }\$ -Ga2O3 MOSFETs. <i>IEEE Electron Device Letters</i> , 2017 , 38, 775-778	4.4	124
27	Heteroepitaxy of N-type EGa2O3 thin films on sapphire substrate by low pressure chemical vapor deposition. <i>Applied Physics Letters</i> , 2016 , 109, 132103	3.4	96
26	Intrinsic doping and gate hysteresis in graphene field effect devices fabricated on SiO2 substrates. Journal of Physics Condensed Matter, 2010 , 22, 334214	1.8	91
25	Magneto-transport in MoS2: phase coherence, spin-orbit scattering, and the hall factor. <i>ACS Nano</i> , 2013 , 7, 7077-82	16.7	78
24	Effects of (NH4)2S passivation on the off-state performance of 3-dimensional InGaAs metal-oxide-semiconductor field-effect transistors. <i>Applied Physics Letters</i> , 2011 , 99, 152113	3.4	63
23	Incomplete Ionization of a 110 meV Unintentional Donor in EGaO and its Effect on Power Devices. <i>Scientific Reports</i> , 2017 , 7, 13218	4.9	60
22	Towards High-Mobility Heteroepitaxial EGa2O3 on Sapphire IDependence on The Substrate Off-Axis Angle. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 215, 1700467	1.6	51
21	P-type conduction in two-dimensional MoS2 via oxygen incorporation. <i>Applied Physics Letters</i> , 2017 , 110, 193103	3.4	46
20	Size-Dependent-Transport Study of \$hbox{In}_{0.53} hbox{Ga}_{0.47}hbox{As}\$ Gate-All-Around Nanowire MOSFETs: Impact of Quantum Confinement and Volume Inversion. <i>IEEE Electron Device Letters</i> , 2012 , 33, 967-969	4.4	44

(2019-2014)

19	Two-dimensional TaSe2 metallic crystals: spin-orbit scattering length and breakdown current density. <i>ACS Nano</i> , 2014 , 8, 9137-42	16.7	40
18	Lateral EGa2O3 field effect transistors. Semiconductor Science and Technology, 2020 , 35, 013002	1.8	38
17	MOCVD growth of high purity Ga2O3 epitaxial films using trimethylgallium precursor. <i>Applied Physics Letters</i> , 2020 , 117, 262101	3.4	34
16	Metal contacts to MoS2: A two-dimensional semiconductor 2012 ,		33
15	EGallium oxide power electronics. APL Materials, 2022, 10, 029201	5.7	33
14	Pulsed Power Performance of EGaDIMOSFETs at L-Band. IEEE Electron Device Letters, 2020, 41, 989-992	4.4	19
13	(Invited) Fundamentals in MoS2 Transistors: Dielectric, Scaling and Metal Contacts. <i>ECS Transactions</i> , 2013 , 58, 203-208	1	17
12	Reduction of unintentional Si doping in EGa2O3 grown via plasma-assisted molecular beam epitaxy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020 , 38, 043403	2.9	15
11	Weak localization in few-layer black phosphorus. 2D Materials, 2016, 3, 024003	5.9	15
10	EGa2O3 defect study by steady-state capacitance spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 091101	1.4	12
9	Transport studies in 2D transition metal dichalcogenides and black phosphorus. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 263002	1.8	10
8	Si doping in MOCVD grown (010) E(AlxGa1日)2O3 thin films. <i>Journal of Applied Physics</i> , 2022 , 131, 145301	1 2.5	5
7	Ambipolar phosphorene field-effect transistors with dielectric capping 2014,		4
6	(Invited) Atomic-Layer-Deposited High-k Dielectric Integration on Epitaxial Graphene. <i>ECS Transactions</i> , 2010 , 33, 459-466	1	4
5	Study of defects in EGa2O3 by isothermal capacitance transient spectroscopy. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2019 , 37, 041204	1.3	3
4	(Invited) ALD High-k as a Common Gate Stack Solution for Nanoelectronics. <i>ECS Transactions</i> , 2010 , 28, 51-68	1	3
3	Electronic Transport Properties in Top-Gated Epitaxial Graphene on Silicon Carbide with ALD Al2O3 High-K Dielectric 2010 ,		1
2	Zeeman spin-splitting in the (010) EGa2O3 two-dimensional electron gas. <i>Applied Physics Letters</i> , 2019 , 115, 262103	3.4	Ο

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