

Huili (Grace) Xing Prof. of ECE & MSE, Cornell University GaN 2D materials devices epitaxy THz

GET MY OWN PROFILE

	All	Since 2013
Citations	9456	7067
h-index	51	43
i10-index	151	128

TITLE	CITED BY	YEAR
Broadband graphene terahertz modulators enabled by intraband transitions B Sensale-Rodriguez, R Yan, MM Kelly, T Fang, K Tahy, WS Hwang, Nature communications 3, 780	492	2012
Carrier statistics and quantum capacitance of graphene sheets and ribbons T Fang, A Konar, H Xing, D Jena Applied Physics Letters 91 (9), 092109	474	2007
Exciton dynamics in suspended monolayer and few-layer MoS2 2D crystals H Shi, R Yan, S Bertolazzi, J Brivio, B Gao, A Kis, D Jena, HG Xing, ACS nano 7 (2), 1072-1080	343	2013
Polarization-induced hole doping in wide—band-gap uniaxial semiconductor heterostructures J Simon, V Protasenko, C Lian, H Xing, D Jena Science 327 (5961), 60-64	328	2010
High breakdown voltage AlGaN-GaN HEMTs achieved by multiple field plates H Xing, Y Dora, A Chini, S Heikman, S Keller, UK Mishra IEEE Electron Device Letters 25 (4), 161-163	304	2004
Heavy doping effects in Mg-doped GaN P Kozodoy, H Xing, SP DenBaars, UK Mishra, A Saxler, R Perrin, Journal of Applied Physics 87 (4), 1832-1835	287	2000
Thermal conductivity of monolayer molybdenum disulfide obtained from temperature-dependent Raman spectroscopy R Yan, JR Simpson, S Bertolazzi, J Brivio, M Watson, X Wu, A Kis, T Luo, ACS nano 8 (1), 986-993	244	2014
InAIN/AIN/GaN HEMTs with regrown ohmic contacts and \$ f_ {T} \$ of 370 GHz Y Yue, Z Hu, J Guo, B Sensale-Rodriguez, G Li, R Wang, F Faria, T Fang, IEEE Electron Device Letters 33 (7), 988-990	231	2012
Mobility in semiconducting graphene nanoribbons: Phonon, impurity,	216	2008

Hulli (Grace) Xing - Google Scholar Citations		9/1/18, 5:14
and edge roughness scattering T Fang, A Konar, H Xing, D Jena Physical Review B 78 (20), 205403		
Graphene nanoribbon tunnel transistors Q Zhang, T Fang, H Xing, A Seabaugh, D Jena IEEE Electron Device Letters 29 (12), 1344-1346	207	2008
Transistors with chemically synthesized layered semiconductor WS2 exhibiting 105 room temperature modulation and ambipolar behavior W Sik Hwang, M Remskar, R Yan, V Protasenko, K Tahy, S Doo Chae, Applied Physics Letters 101 (1), 013107	155	2012
Polarization-enhanced Mg doping of AlGaN/GaN superlattices P Kozodoy, YP Smorchkova, M Hansen, H Xing, SP DenBaars, UK Mishra, Applied Physics Letters 75 (16), 2444-2446	152	1999
AIN/GaN insulated-gate HEMTs with 2.3 A/mm output current and 480 mS/mm transconductance T Zimmermann, D Deen, Y Cao, J Simon, P Fay, D Jena, HG Xing IEEE Electron Device Letters 29 (7), 661-664	144	2008
Unique prospects for graphene-based terahertz modulators B Sensale-Rodriguez, T Fang, R Yan, MM Kelly, D Jena, L Liu, H Xing Applied Physics Letters 99 (11), 113104	141	2011
Extraordinary control of terahertz beam reflectance in graphene electro- absorption modulators B Sensale-Rodriguez, R Yan, S Rafique, M Zhu, W Li, X Liang, Nano letters 12 (9), 4518-4522	135	2012
Gallium nitride based transistors H Xing, S Keller, YF Wu, L McCarthy, IP Smorchkova, D Buttari, R Coffie, Journal of Physics: Condensed Matter 13 (32), 7139	124	2001
Novel gate-recessed vertical InAs/GaSb TFETs with record high I ON of 180 μ A/ μ m at V DS= 0.5 V G Zhou, R Li, T Vasen, M Qi, S Chae, Y Lu, Q Zhang, H Zhu, JM Kuo, Electron Devices Meeting (IEDM), 2012 IEEE International, 32.6. 1-32.6. 4	123	2012
AlGaSb/InAs Tunnel Field-Effect Transistor With On-Current of 78\$\mu\hbox {A}/\mu\hbox {m} \$ at 0.5 V R Li, Y Lu, G Zhou, Q Liu, SD Chae, T Vasen, WS Hwang, Q Zhang, P Fay, IEEE electron device letters 33 (3), 363-365	122	2012
Presence and origin of interface charges at atomic-layer deposited Al2O3/III-nitride heterojunctions S Ganguly, J Verma, G Li, T Zimmermann, H Xing, D Jena Applied physics letters 99 (19), 193504	113	2011

III-V nitride semiconductor alloys

Realization of wide electron slabs by polarization bulk doping in graded

D Jena, S Heikman, D Green, D Buttari, R Coffie, H Xing, S Keller, ...

2002

100

Applied physics letters 81 (23), 4395-4397