

Yonatan Calahorra

List of Publications by Year in descending order

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34
papers

636
citations

567281

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g-index

34
all docs

34
docs citations

34
times ranked

1050
citing authors

#	ARTICLE	IF	CITATIONS
1	Piezoelectric III-V and II-VI Semiconductors. , 2022, , 35-49.		1
2	Enhanced piezoelectricity and electromechanical efficiency in semiconducting GaN due to nanoscale porosity. Applied Materials Today, 2020, 21, 100858.	4.3	10
3	Time-resolved open-circuit conductive atomic force microscopy for direct electromechanical characterisation. Nanotechnology, 2020, 31, 404003.	2.6	11
4	Poly-L-lactic Acid Nanotubes as Soft Piezoelectric Interfaces for Biology: Controlling Cell Attachment via Polymer Crystallinity. ACS Applied Bio Materials, 2020, 3, 2140-2149.	4.6	27
5	Preface for the special issue on Microscopy of Semiconducting Materials 2019. Semiconductor Science and Technology, 2020, 35, 120201.	2.0	1
6	Self-assembly of collagen bundles and enhanced piezoelectricity induced by chemical crosslinking. Nanoscale, 2019, 11, 15120-15130.	5.6	33
7	Strain-Mediated Bending of InP Nanowires through the Growth of an Asymmetric InAs Shell. Nanomaterials, 2019, 9, 1327.	4.1	8
8	Highly sensitive piezotronic pressure sensors based on undoped GaAs nanowire ensembles. Journal Physics D: Applied Physics, 2019, 52, 294002.	2.8	15
9	Coaxial Nickel-Poly(vinylidene fluoride trifluoroethylene) Nanowires for Magnetolectric Applications. ACS Applied Nano Materials, 2019, 2, 170-179.	5.0	10
10	Piezoelectricity in non-nitride III-V nanowires: Challenges and opportunities. Journal of Materials Research, 2018, 33, 611-624.	2.6	10
11	Nanoscale electromechanical properties of template-assisted hierarchical self-assembled cellulose nanofibers. Nanoscale, 2018, 10, 16812-16821.	5.6	21
12	The effect of crystal structure on the electromechanical properties of piezoelectric Nylon-11 nanowires. Chemical Communications, 2018, 54, 6863-6866.	4.1	20
13	Piezoelectric Semiconducting Nanowires. Semiconductors and Semimetals, 2018, , 445-478.	0.7	6
14	Catalyst shape engineering for anisotropic cross-sectioned nanowire growth. Scientific Reports, 2017, 7, 40891.	3.3	10
15	Direct observation of shear piezoelectricity in poly-L-lactic acid nanowires. APL Materials, 2017, 5, .	5.1	44
16	Lead-Free Polycrystalline Ferroelectric Nanowires with Enhanced Curie Temperature. Advanced Functional Materials, 2017, 27, 1701169.	14.9	19
17	Formation mechanism of gold-based and gold-free ohmic contacts to AlGaIn/GaN heterostructure field effect transistors. Journal of Applied Physics, 2017, 121, .	2.5	28
18	Exploring piezoelectric properties of III-V nanowires using piezo-response force microscopy. Semiconductor Science and Technology, 2017, 32, 074006.	2.0	18

#	ARTICLE	IF	CITATIONS
19	Mapping piezoelectric response in nanomaterials using a dedicated non-destructive scanning probe technique. <i>Nanoscale</i> , 2017, 9, 19290-19297.	5.6	23
20	Localized electromechanical interactions in ferroelectric P(VDF-TrFE) nanowires investigated by scanning probe microscopy. <i>APL Materials</i> , 2016, 4, .	5.1	17
21	InP Nanoflag Growth from a Nanowire Template by in Situ Catalyst Manipulation. <i>Nano Letters</i> , 2016, 16, 2837-2844.	9.1	32
22	Observation of Confinement-Induced Self-Poling Effects in Ferroelectric Polymer Nanowires Grown by Template Wetting. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 1016-1025.	3.6	32
23	Reduction of nanowire diameter beyond lithography limits by controlled catalyst dewetting. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 165309.	2.8	3
24	Three-point bending analysis of doubly clamped silicon nanowire beams; Young's modulus, initial stress, and crystal orientation. <i>Journal of Applied Physics</i> , 2015, 117, 164311.	2.5	13
25	On the diameter dependence of metal-nanowire Schottky barrier height. <i>Journal of Applied Physics</i> , 2015, 117, 034308.	2.5	16
26	Control of morphology and crystal purity of InP nanowires by variation of phosphine flux during selective area MOMB. <i>Nanotechnology</i> , 2015, 26, 085303.	2.6	29
27	Young's Modulus, Residual Stress, and Crystal Orientation of Doubly Clamped Silicon Nanowire Beams. <i>Nano Letters</i> , 2015, 15, 2945-2950.	9.1	97
28	Role of Transport During Transient Phenomena in AlGaIn/GaN Heterostructure FETs. <i>IEEE Electron Device Letters</i> , 2015, 36, 1124-1127.	3.9	8
29	Rigorous analysis of image force barrier lowering in bounded geometries: application to semiconducting nanowires. <i>Nanotechnology</i> , 2014, 25, 145203.	2.6	6
30	Tapering and crystal structure of indium phosphide nanowires grown by selective area vapor liquid solid epitaxy. <i>Journal of Crystal Growth</i> , 2014, 389, 103-107.	1.5	14
31	Shadowing and mask opening effects during selective-area vapor-liquid-solid growth of InP nanowires by metalorganic molecular beam epitaxy. <i>Nanotechnology</i> , 2013, 24, 475302.	2.6	30
32	Surface depletion effects in semiconducting nanowires having a non-uniform radial doping profile. <i>Journal of Applied Physics</i> , 2013, 114, 124310.	2.5	13
33	Catalyst design for native oxide based selective area InP nanowire growth. , 2012, , .		1
34	Native-oxide-based selective area growth of InP nanowires via metal-organic molecular beam epitaxy mediated by surface diffusion. <i>Nanotechnology</i> , 2012, 23, 245603.	2.6	10