Jeramy D Zimmerman

List of Publications by Year
in descending order

76	2,470	159585 30	197818 49
papers	citations	h-index	g-index

76	76	76	3638
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	28â€4: Invited Paper: Effects of Guest Clustering Morphology in Phosphorescent OLEDs. Digest of Technical Papers SID International Symposium, 2022, 53, 334-336.	0.3	0
2	Three dimensional cluster analysis for atom probe tomography using Ripleyâ€™s K-function and machine learning. Ultramicroscopy, 2021, 220, 113151.	1.9	6
3	Application of templated vapor-liquid-solid growth to heteroepitaxy of InP on Si. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, 013404.	2.1	4
4	Towards a III-V solar cell with a metamorphic graded buffer directly grown on v-groove Si substrates. , 2021, , .		1
5	Isotropic and Anisotropic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>g</mml:mi></mml:mrow></mml:math> -Factor Corrections in GaAs Quantum Dots. Physical Review Letters, 2021, 127, 057701.	7.8	2
6	Understanding Fragmentation of Organic Small Molecules in Atom Probe Tomography. Journal of Physical Chemistry Letters, 2021, 12, 10437-10443.	4.6	0
7	Templated Liquid-Phase Epitaxy of InP Structures on Si. , 2021, , .		0
8	High-Temperature Nucleation of GaP on V-Grooved Si. Crystal Growth and Design, 2020, 20, 6745-6751.	3.0	10
9	19â€1: Invited Paper: Atom Probe Tomography for Understanding OLED Morphology. Digest of Technical Papers SID International Symposium, 2019, 50, 248-251.	0.3	0
10	Spectroscopy of Quantum Dot Orbitals with In-Plane Magnetic Fields. Physical Review Letters, 2019, 122, 207701.	7.8	12
11	Atom Probe Tomography of Molecular Organic Materials: Sub-Dalton Nanometer-Scale Quantification. Chemistry of Materials, 2019, 31, 2241-2247.	6.7	10
12	Enabling low-cost III-V/Si integration through nucleation of GaP on v-grooved Si substrates. , 2018, , .		6
13	Perspective: Fundamentals of coalescence-related dislocations, applied to selective-area growth and other epitaxial films. APL Materials, 2018, 6, .	5.1	18
14	Hyperfine-phonon spin relaxation in a single-electron GaAs quantum dot. Nature Communications, 2018, 9, 3454.	12.8	53
15	Characterization of heteroepitaxial GaAs films grown on Si using selective area nucleation. , 2017, , .		0
16	Selective area growth of GaAs on Si patterned using nanoimprint lithography. , 2016, , .		6
17	Effect of Dielsâ€“Alder Reaction in C₆₀-Tetracene Photovoltaic Devices. Nano Letters, 2016, 16, 6086-6091.	9.1	17
18	Intrinsic Metastabilities in the Charge Configuration of a Double Quantum Dot. Physical Review Letters, 2015, 115, 106804.	7.8	12

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19	Control of exciton transport using quantum interference. Physical Review B, 2015, 92, .	3.2	8
20	Silver-epoxy microwave filters and thermalizers for millikelvin experiments. Applied Physics Letters, 2014, 104, 211106.	3.3	33
21	Nonideal Diode Behavior and Bandgap Renormalization in Carbon Nanotube p-n Junctions. IEEE Nanotechnology Magazine, 2014, 13, 41-45.	2.0	9
22	Effect of Mixed Layer Crystallinity on the Performance of Mixed Heterojunction Organic Photovoltaic Cells. Advanced Materials, 2014, 26, 2914-2918.	21.0	23
23	Nonâ€Destructive Wafer Recycling for Lowâ€Cost Thinâ€Film Flexible Optoelectronics. Advanced Functional Materials, 2014, 24, 4284-4291.	14.9	61
24	Highâ€Efficiency, Vacuumâ€Deposited, Smallâ€Molecule Organic Tandem and Tripleâ€Junction Photovoltaic Cells. Advanced Energy Materials, 2014, 4, 1400568.	19.5	103
25	GaAs Quantum Dot Thermometry Using Direct Transport and Charge Sensing. Journal of Low Temperature Physics, 2014, 175, 784-798.	1.4	42
26	Smallâ€Molecule Planarâ€Mixed Heterojunction Photovoltaic Cells with Fullereneâ€Based Electron Filtering Buffers. Advanced Energy Materials, 2014, 4, 1301557.	19.5	54
27	Control of Interface Order by Inverse Quasi-Epitaxial Growth of Squaraine/Fullerene Thin Film Photovoltaics. ACS Nano, 2013, 7, 9268-9275.	14.6	59
28	Tandem organic photovoltaics incorporating two solution-processed small molecule donor layers. Applied Physics Letters, 2013, 103, .	3.3	15
29	Exciton-blocking phosphonic acid-treated anode buffer layers for organic photovoltaics. Applied Physics Letters, 2013, 103, .	3.3	13
30	A Fullerene-Based Organic Exciton Blocking Layer with High Electron Conductivity. Nano Letters, 2013, 13, 3315-3320.	9.1	42
31	Characterizing Relaxation Dynamics in Multi-Chiral Carbon Nanotube Ensembles. , 2013, , .		0
32	A hybrid planar-mixed tetraphenyldibenzoperiflanthene/C70 photovoltaic cell. Applied Physics Letters, 2013, 102, .	3.3	98
33	High efficiency tandem organic photovoltaics incorporating small molecule blended squaraine donors and a fullerene acceptor. , 2013, , .		0
34	Snow cleaning of substrates increases yield of large-area organic photovoltaics. Applied Physics Letters, 2012, 101, 133901.	3.3	29
35	Reuse of GaAs substrates for epitaxial lift-off by employing protection layers. Journal of Applied Physics, 2012, 111, .	2.5	65
36	Epitaxial lift-off of GaAs thin-film solar cells followed by substrate reuse. , 2012, , .		11

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37	Photoconductivity in donor-acceptor heterojunction organic photovoltaics. Physical Review B, 2012, 86, .	3.2	27
38	Tandem organic photovoltaics using both solution and vacuum deposited small molecules. Applied Physics Letters, 2012, 101, 063303.	3.3	60
39	Porphyrins Fused with Unactivated Polycyclic Aromatic Hydrocarbons. Journal of Organic Chemistry, 2012, 77, 143-159.	3.2	72
40	Independent Control of Bulk and Interfacial Morphologies of Small Molecular Weight Organic Heterojunction Solar Cells. Nano Letters, 2012, 12, 4366-4371.	9.1	114
41	Smallâ€Molecule Photovoltaics Based on Functionalized Squaraine Donor Blends. Advanced Materials, 2012, 24, 1956-1960.	21.0	96
42	Arylamine-Based Squaraine Donors for Use in Organic Solar Cells. Nano Letters, 2011, 11, 4261-4264.	9.1	84
43	Use of additives in porphyrin-tape/C60 near-infrared photodetectors. Organic Electronics, 2011, 12, 869-873.	2.6	49
44	Organic photovoltaics incorporating electron conducting exciton blocking layers. Applied Physics Letters, 2011, 98, 243307.	3.3	70
45	Porphyrinâ€Tape/C₆₀ Organic Photodetectors with 6.5% External Quantum Efficiency in the Near Infrared. Advanced Materials, 2010, 22, 2780-2783.	21.0	137
46	Fused Pyreneâ€“Diporphyrins: Shifting Nearâ€Infrared Absorption to 1.5â€…Î¼m and Beyond. Angewandte Chemie - International Edition, 2010, 49, 5523-5526.	13.8	87
47	Multiple growths of epitaxial lift-off solar cells from a single InP substrate. Applied Physics Letters, 2010, 97, 101107.	3.3	42
48	ErAs epitaxial Ohmic contacts to InGaAs/InP. Applied Physics Letters, 2009, 94, .	3.3	10
49	Ultrathin film, high specific power InP solar cells on flexible plastic substrates. Applied Physics Letters, 2009, 95, 223503.	3.3	34
50	Broad Spectral Response Using Carbon Nanotube/Organic Semiconductor/C₆₀ Photodetectors. Nano Letters, 2009, 9, 3354-3358.	9.1	223
51	Ultralow resistance in situ Ohmic contacts to InGaAs/InP. Applied Physics Letters, 2008, 93, 183502.	3.3	55
52	Coupled whispering gallery mode resonators in the Terahertz frequency range. Optics Express, 2008, 16, 7336.	3.4	48
53	Photonic molecules in the Terahertz - mode splitting in coupled dielectric whispering gallery mode resonators. , 2008, , .		0
54	Room temperature terahertz detection based on plasma resonance of electrons in an Antenna-Coupled GaAs MESFET. , 2008, , .		0

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55	Room temperature terahertz detection based on bulk plasmons in antenna-coupled GaAs field effect transistors. Applied Physics Letters, 2008, 92, .	3.3	27
56	Terahertz emission by quantum beating in a modulation doped parabolic quantum well. Applied Physics Letters, 2008, 92, 142108.	3.3	3
57	Interference between two coherently driven monochromatic terahertz sources. Applied Physics Letters, 2008, 92, 221107.	3.3	9
58	Interference between monochromatic Terahertz sources. , 2008, , .		0
59	Room temperature terahertz detection based on electron plasma resonance in an Antenna-Coupled GaAs MESFET. , 2008, , .		0
60	Low-frequency noise in epitaxially grown Schottky junctions. Journal of Applied Physics, 2007, 101, 084509.	2.5	6
61	Low resistance, nonalloyed Ohmic contacts to InGaAs. Applied Physics Letters, 2007, 91, .	3.3	47
62	Advances in schottky rectifier performance. IEEE Microwave Magazine, 2007, 8, 54-59.	0.8	33
63	Efficient CW terahertz generation with n-i-pn-i-p photomixers. , 2007, , .		0
64	Ultra sensitive ErAs/InAlGaAs direct detectors for millimeter wave and THz imaging applications. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	25
65	Controlling electronic properties of epitaxial nanocomposites of dissimilar materials. Journal of Crystal Growth, 2007, 301-302, 4-9.	1.5	22
66	1âˆ•f noise in all-epitaxial metal-semiconductor diodes. Applied Physics Letters, 2006, 88, 073518.	3.3	13
67	High-sensitivity, quasi-optically-coupled semimetal-semiconductor detectors at 104 GHz. , 2006, 6212, 217.		7
68	ErAs island-stacking growth technique for engineering textured Schottky interfaces. Journal of Vacuum Science & Technology B, 2006, 24, 1483.	1.3	4
69	Increased efficiency in multijunction solar cells through the incorporation of semimetallic ErAs nanoparticles into the tunnel junction. Applied Physics Letters, 2006, 88, 162103.	3.3	86
70	First MMW characterization of ErAs/InAlGaAs/InP semimetal-semiconductor-Schottky diode (S3) detectors for passive millimeter-wave and infrared imaging. , 2005, , .		5
71	Tunable all epitaxial semimetal-semiconductor Schottky diode system: ErAs on InAlGaAs. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 1929.	1.6	37
72	Semimetal-semiconductor rectifiers for sensitive room-temperature microwave detectors. Applied Physics Letters, 2005, 87, 163506.	3.3	32

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73	Interface atomic structure of epitaxial ErAs layers on (001) In0.53Ga0.47As and GaAs. Applied Physics Letters, 2005, 86, 241901.	3.3	50
74	Subpicosecond photocarrier lifetimes in GaSbâˆ•ErSb nanoparticle superlattices at 1.55Î¼m. Applied Physics Letters, 2004, 85, 3110-3112.	3.3	14
75	Electrophoretic deposition applied to thick metalâ€“ceramic coatings. Surface and Coatings Technology, 2002, 157, 267-273.	4.8	20
76	Semimetal-Semiconductor Junctions for Low Noise Zero-Bias Rectifiers. , 0, , .		0