

Jeramy D Zimmerman

List of Publications by Year in descending order

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76

papers

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citations

159585

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197818

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docs citations

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times ranked

3638

citing authors

#	ARTICLE	IF	CITATIONS
1	Broad Spectral Response Using Carbon Nanotube/Organic Semiconductor/C ₆₀ Photodetectors. <i>Nano Letters</i> , 2009, 9, 3354-3358.	9.1	223
2	Porphyrinâ€Tape/C ₆₀ Organic Photodetectors with 6.5% External Quantum Efficiency in the Near Infrared. <i>Advanced Materials</i> , 2010, 22, 2780-2783.	21.0	137
3	Independent Control of Bulk and Interfacial Morphologies of Small Molecular Weight Organic Heterojunction Solar Cells. <i>Nano Letters</i> , 2012, 12, 4366-4371.	9.1	114
4	Highâ€Efficiency, Vacuumâ€Deposited, Smallâ€Molecule Organic Tandem and Tripleâ€Function Photovoltaic Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1400568.	19.5	103
5	A hybrid planar-mixed tetraphenyldibenzoperiflanthene/C70 photovoltaic cell. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	98
6	Smallâ€Molecule Photovoltaics Based on Functionalized Squaraine Donor Blends. <i>Advanced Materials</i> , 2012, 24, 1956-1960.	21.0	96
7	Fused Pyreneâ€Diporphyrins: Shifting Nearâ€Infrared Absorption to 1.5â€..â€m and Beyond. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5523-5526.	13.8	87
8	Increased efficiency in multijunction solar cells through the incorporation of semimetallic ErAs nanoparticles into the tunnel junction. <i>Applied Physics Letters</i> , 2006, 88, 162103.	3.3	86
9	Arylamine-Based Squaraine Donors for Use in Organic Solar Cells. <i>Nano Letters</i> , 2011, 11, 4261-4264.	9.1	84
10	Porphyrins Fused with Unactivated Polycyclic Aromatic Hydrocarbons. <i>Journal of Organic Chemistry</i> , 2012, 77, 143-159.	3.2	72
11	Organic photovoltaics incorporating electron conducting exciton blocking layers. <i>Applied Physics Letters</i> , 2011, 98, 243307.	3.3	70
12	Reuse of GaAs substrates for epitaxial lift-off by employing protection layers. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	65
13	Nonâ€Destructive Wafer Recycling for Lowâ€Cost Thinâ€Film Flexible Optoelectronics. <i>Advanced Functional Materials</i> , 2014, 24, 4284-4291.	14.9	61
14	Tandem organic photovoltaics using both solution and vacuum deposited small molecules. <i>Applied Physics Letters</i> , 2012, 101, 063303.	3.3	60
15	Control of Interface Order by Inverse Quasi-Epitaxial Growth of Squaraine/Fullerene Thin Film Photovoltaics. <i>ACS Nano</i> , 2013, 7, 9268-9275.	14.6	59
16	Ultralow resistance in situ Ohmic contacts to InGaAs/InP. <i>Applied Physics Letters</i> , 2008, 93, 183502.	3.3	55
17	Smallâ€Molecule Planarâ€Mixed Heterojunction Photovoltaic Cells with Fullereneâ€Based Electron Filtering Buffers. <i>Advanced Energy Materials</i> , 2014, 4, 1301557.	19.5	54
18	Hyperfine-phonon spin relaxation in a single-electron GaAs quantum dot. <i>Nature Communications</i> , 2018, 9, 3454.	12.8	53

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19	Interface atomic structure of epitaxial ErAs layers on (001) In _{0.53} Ga _{0.47} As and GaAs. <i>Applied Physics Letters</i> , 2005, 86, 241901.	3.3	50
20	Use of additives in porphyrin-tape/C60 near-infrared photodetectors. <i>Organic Electronics</i> , 2011, 12, 869-873.	2.6	49
21	Coupled whispering gallery mode resonators in the Terahertz frequency range. <i>Optics Express</i> , 2008, 16, 7336.	3.4	48
22	Low resistance, nonalloyed Ohmic contacts to InGaAs. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	47
23	Multiple growths of epitaxial lift-off solar cells from a single InP substrate. <i>Applied Physics Letters</i> , 2010, 97, 101107.	3.3	42
24	A Fullerene-Based Organic Exciton Blocking Layer with High Electron Conductivity. <i>Nano Letters</i> , 2013, 13, 3315-3320.	9.1	42
25	GaAs Quantum Dot Thermometry Using Direct Transport and Charge Sensing. <i>Journal of Low Temperature Physics</i> , 2014, 175, 784-798.	1.4	42
26	Tunable all epitaxial semimetal-semiconductor Schottky diode system: ErAs on InAlGaAs. <i>Journal of Vacuum Science & Technology B, Microelectronics Processing and Phenomena</i> , 2005, 23, 1929.	1.6	37
27	Ultrathin film, high specific power InP solar cells on flexible plastic substrates. <i>Applied Physics Letters</i> , 2009, 95, 223503.	3.3	34
28	Advances in schottky rectifier performance. <i>IEEE Microwave Magazine</i> , 2007, 8, 54-59.	0.8	33
29	Silver-epoxy microwave filters and thermalizers for millikelvin experiments. <i>Applied Physics Letters</i> , 2014, 104, 211106.	3.3	33
30	Semimetal-semiconductor rectifiers for sensitive room-temperature microwave detectors. <i>Applied Physics Letters</i> , 2005, 87, 163506.	3.3	32
31	Snow cleaning of substrates increases yield of large-area organic photovoltaics. <i>Applied Physics Letters</i> , 2012, 101, 133901.	3.3	29
32	Room temperature terahertz detection based on bulk plasmons in antenna-coupled GaAs field effect transistors. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	27
33	Photoconductivity in donor-acceptor heterojunction organic photovoltaics. <i>Physical Review B</i> , 2012, 86, .	3.2	27
34	Ultra sensitive ErAs/InAlGaAs direct detectors for millimeter wave and THz imaging applications. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , 2007, , .	0.0	25
35	Effect of Mixed Layer Crystallinity on the Performance of Mixed Heterojunction Organic Photovoltaic Cells. <i>Advanced Materials</i> , 2014, 26, 2914-2918.	21.0	23
36	Controlling electronic properties of epitaxial nanocomposites of dissimilar materials. <i>Journal of Crystal Growth</i> , 2007, 301-302, 4-9.	1.5	22

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37	Electrophoretic deposition applied to thick metal–ceramic coatings. <i>Surface and Coatings Technology</i> , 2002, 157, 267-273.	4.8	20
38	Perspective: Fundamentals of coalescence-related dislocations, applied to selective-area growth and other epitaxial films. <i>APL Materials</i> , 2018, 6, .	5.1	18
39	Effect of Diels–Alder Reaction in C ₆₀ -Tetracene Photovoltaic Devices. <i>Nano Letters</i> , 2016, 16, 6086-6091.	9.1	17
40	Tandem organic photovoltaics incorporating two solution-processed small molecule donor layers. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	15
41	Subpicosecond photocarrier lifetimes in GaSb ⁺ ErSb nanoparticle superlattices at 1.55 μ m. <i>Applied Physics Letters</i> , 2004, 85, 3110-3112.	3.3	14
42	1/f noise in all-epitaxial metal-semiconductor diodes. <i>Applied Physics Letters</i> , 2006, 88, 073518.	3.3	13
43	Exciton-blocking phosphonic acid-treated anode buffer layers for organic photovoltaics. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	13
44	Intrinsic Metastabilities in the Charge Configuration of a Double Quantum Dot. <i>Physical Review Letters</i> , 2015, 115, 106804.	7.8	12
45	Spectroscopy of Quantum Dot Orbitals with In-Plane Magnetic Fields. <i>Physical Review Letters</i> , 2019, 122, 207701.	7.8	12
46	Epitaxial lift-off of GaAs thin-film solar cells followed by substrate reuse. , 2012, , .		11
47	ErAs epitaxial Ohmic contacts to InGaAs/InP. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	10
48	Atom Probe Tomography of Molecular Organic Materials: Sub-Dalton Nanometer-Scale Quantification. <i>Chemistry of Materials</i> , 2019, 31, 2241-2247.	6.7	10
49	High-Temperature Nucleation of GaP on V-Crooved Si. <i>Crystal Growth and Design</i> , 2020, 20, 6745-6751.	3.0	10
50	Interference between two coherently driven monochromatic terahertz sources. <i>Applied Physics Letters</i> , 2008, 92, 221107.	3.3	9
51	Nonideal Diode Behavior and Bandgap Renormalization in Carbon Nanotube p-n Junctions. <i>IEEE Nanotechnology Magazine</i> , 2014, 13, 41-45.	2.0	9
52	Control of exciton transport using quantum interference. <i>Physical Review B</i> , 2015, 92, .	3.2	8
53	High-sensitivity, quasi-optically-coupled semimetal-semiconductor detectors at 104 GHz. , 2006, 6212, 217.		7
54	Low-frequency noise in epitaxially grown Schottky junctions. <i>Journal of Applied Physics</i> , 2007, 101, 084509.	2.5	6

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55	Selective area growth of GaAs on Si patterned using nanoimprint lithography. , 2016, , .	6	
56	Enabling low-cost III-V/Si integration through nucleation of GaP on v-grooved Si substrates. , 2018, , .	6	
57	Three dimensional cluster analysis for atom probe tomography using Ripleyâ€™s K-function and machine learning. Ultramicroscopy, 2021, 220, 113151.	1.9	6
58	First MMW characterization of ErAs/InAlGaAs/InP semimetal-semiconductor-Schottky diode (S3) detectors for passive millimeter-wave and infrared imaging. , 2005, , .	5	
59	ErAs island-stacking growth technique for engineering textured Schottky interfaces. Journal of Vacuum Science & Technology B, 2006, 24, 1483.	1.3	4
60	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
61	Terahertz emission by quantum beating in a modulation doped parabolic quantum well. Applied Physics Letters, 2008, 92, 142108.	3.3	3
62	Isotropic and Anisotropic $\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle mml:mrow \rangle \langle mml:mi \rangle g \langle /mml:mi \rangle \langle /mml:mrow \rangle \langle /mml:math \rangle$ -Factor Corrections in GaAs Quantum Dots. Physical Review Letters, 2021, 127, 057701.	7.8	2
63	Towards a III-V solar cell with a metamorphic graded buffer directly grown on v-groove Si substrates. , 2021, , .	1	
64	Semimetal-Semiconductor Junctions for Low Noise Zero-Bias Rectifiers. , 0, , .	0	
65	Efficient CW terahertz generation with n-i-pn-i-p photomixers. , 2007, , .	0	
66	Photonic molecules in the Terahertz - mode splitting in coupled dielectric whispering gallery mode resonators. , 2008, , .	0	
67	Room temperature terahertz detection based on plasma resonance of electrons in an Antenna-Coupled GaAs MESFET. , 2008, , .	0	
68	Characterizing Relaxation Dynamics in Multi-Chiral Carbon Nanotube Ensembles. , 2013, , .	0	
69	High efficiency tandem organic photovoltaics incorporating small molecule blended squaraine donors and a fullerene acceptor. , 2013, , .	0	
70	Characterization of heteroepitaxial GaAs films grown on Si using selective area nucleation. , 2017, , .	0	
71	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
72	Understanding Fragmentation of Organic Small Molecules in Atom Probe Tomography. Journal of Physical Chemistry Letters, 2021, 12, 10437-10443.	4.6	0

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73	Interference between monochromatic Terahertz sources. , 2008, , .	0	0
74	Room temperature terahertz detection based on electron plasma resonance in an Antenna-Coupled GaAs MESFET. , 2008, , .	0	0
75	Templated Liquid-Phase Epitaxy of InP Structures on Si. , 2021, , .	0	0
76	28â€¢4: <i>Invited Paper:</i> Effects of Guest Clustering Morphology in Phosphorescent OLEDs. Digest of Technical Papers SID International Symposium, 2022, 53, 334-336.	0.3	0