

Jonathon T Olesberg

List of Publications by Year in descending order

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36
papers

788
citations

471509

17
h-index

552781

26
g-index

37
all docs

37
docs citations

37
times ranked

675
citing authors

#	ARTICLE	IF	CITATIONS
1	Auger recombination in narrow-gap semiconductor superlattices incorporating antimony. <i>Journal of Applied Physics</i> , 2002, 92, 7311-7316.	2.5	81
2	In Vivo Near-Infrared Spectroscopy of Rat Skin Tissue with Varying Blood Glucose Levels. <i>Analytical Chemistry</i> , 2006, 78, 215-223.	6.5	79
3	Tunable Laser Diode System for Noninvasive Blood Glucose Measurements. <i>Applied Spectroscopy</i> , 2005, 59, 1480-1484.	2.2	68
4	Online Measurement of Urea Concentration in Spent Dialysate during Hemodialysis. <i>Clinical Chemistry</i> , 2004, 50, 175-181.	3.2	44
5	High detectivity InGaAsSb pin infrared photodetector for blood glucose sensing. <i>Electronics Letters</i> , 2000, 36, 1301.	1.0	39
6	512x512 Individually Addressable MWIR LED Arrays Based on Type-II InAs/GaSb Superlattices. <i>IEEE Journal of Quantum Electronics</i> , 2013, 49, 753-759.	1.9	32
7	MBE-grown high-efficiency GaInAsSb mid-infrared detectors operating under back illumination. <i>Semiconductor Science and Technology</i> , 2006, 21, 267-272.	2.0	31
8	Selectivity Assessment of Noninvasive Glucose Measurements Based on Analysis of Multivariate Calibration Vectors. <i>Journal of Diabetes Science and Technology</i> , 2007, 1, 454-462.	2.2	30
9	Cascaded Superlattice InAs/GaSb Light-Emitting Diodes for Operation in the Long-Wave Infrared. <i>IEEE Journal of Quantum Electronics</i> , 2011, 47, 50-54.	1.9	28
10	All-optical measurement of vertical charge carrier transport in mid-wave infrared InAs/GaSb type-II superlattices. <i>Applied Physics Letters</i> , 2013, 102, 202101.	3.3	28
11	Experimental and theoretical density-dependent absorption spectra in (GaInSb/InAs)/AlGaSb superlattice multiple quantum wells. <i>Applied Physics Letters</i> , 1998, 72, 229-231.	3.3	25
12	High-Power MWIR Cascaded InAs/GaSb Superlattice LEDs. <i>IEEE Journal of Quantum Electronics</i> , 2009, 45, 849-853.	1.9	25
13	Temperature-Insensitive Near-Infrared Method for Determination of Protein Concentration during Protein Crystal Growth. <i>Analytical Chemistry</i> , 2000, 72, 4985-4990.	6.5	24
14	Advanced near-infrared monitor for stable real-time measurement and control of <i>Pichia pastoris</i> bioprocesses. <i>Biotechnology Progress</i> , 2014, 30, 749-759.	2.6	24
15	Bandgap and temperature dependence of Auger recombination in InAs/InAsSb type-II superlattices. <i>Journal of Applied Physics</i> , 2016, 119, 215705.	2.5	24
16	Real-time monitoring of glycerol and methanol to enhance antibody production in industrial <i>Pichia pastoris</i> bioprocesses. <i>Biochemical Engineering Journal</i> , 2015, 94, 115-124.	3.6	22
17	Cascaded active regions in 2.4-μm GaInAsSb light-emitting diodes for improved current efficiency. <i>Applied Physics Letters</i> , 2006, 89, 211108.	3.3	20
18	Active Region Cascading for Improved Performance in InAs/GaSb Superlattice LEDs. <i>IEEE Journal of Quantum Electronics</i> , 2008, 44, 1242-1247.	1.9	19

#	ARTICLE	IF	CITATIONS
19	On-Line Near-Infrared Spectrometer to Monitor Urea Removal in Real Time during Hemodialysis. Applied Spectroscopy, 2008, 62, 866-872.	2.2	18
20	InAs ⁺ GaSb cascaded active region superlattice light emitting diodes for operation at 3.8 μ m. Applied Physics Letters, 2008, 92, 121106.	3.3	17
21	Sb-based IR photodetector epiwafers on 100mm GaSb substrates manufactured by MBE. Infrared Physics and Technology, 2013, 59, 158-162.	2.9	16
22	Flip Chip Bonding of 68 \times 68 MWIR LED Arrays. IEEE Transactions on Electronics Packaging Manufacturing, 2009, 32, 9-13.	1.4	15
23	Leakage mechanisms and potential performance of molecular-beam epitaxially grown GaInAsSb 2.4 μ m photodiode detectors. Journal of Applied Physics, 2008, 103, 104511.	2.5	13
24	Optical microsensor for continuous glucose measurements in interstitial fluid. , 2006, , .		11
25	Dual-Color InAs/GaSb Cascaded Superlattice Light-Emitting Diodes. IEEE Journal of Quantum Electronics, 2015, 51, 1-6.	1.9	10
26	Mid-infrared InAs/GaSb separate confinement heterostructure laser diode structures. Journal of Applied Physics, 2001, 89, 3283-3289.	2.5	9
27	Optimization of norovirus virus-like particle production in <i>Pichia pastoris</i> using a real-time near-infrared bioprocess monitor. Biotechnology Progress, 2016, 32, 518-526.	2.6	8
28	512x512 array of dual-color InAs/GaSb superlattice light-emitting diodes. , 2017, , .		7
29	<title>Online measurement of urea concentration in spent dialysate during hemodialysis</title>. , 2002, , .		4
30	MBE growth of Sb-based type-II strained layer superlattice structures on multiwafer production reactors. , 2010, , .		4
31	Tunable laser diode system for noninvasive blood glucose measurements. , 2005, 5702, 23.		3
32	In vivo near-infrared spectroscopy of rat skin tissue with varying blood glucose levels. , 2004, , .		2
33	Quaternary GaInAsSb 2.0-2.5 micron back-illuminated focal plane array for blood glucose monitoring. , 2005, , .		2
34	Improved Quantum Efficiency in AlGaInSb/InAs Superlattices for Mid-Infrared Optoelectronics. , 2018, , .		0
35	Designing and Characterizing Metalenses for the Increased Light Extraction of MWIR LEDs. , 2019, , .		0
36	Over Three Hundred Percent Increased Light Extraction from Emitters at Mid-Infrared Wavelengths Using Metalenses. ACS Applied Electronic Materials, 2020, 2, 2638-2643.	4.3	0