Jonathon T Olesberg

List of Publications by Year
in descending order

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	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
2	Designing and Characterizing Metalenses for the Increased Light Extraction of MWIR LEDs. , 2019, , .		0
3	Improved Quantum Efficiency in AlGaInSb/InAs Superlattices for Mid-Infrared Optoelectronics. , 2018, , .		0
4	512x512 array of dual-color InAs/GaSb superlattice light-emitting diodes. , 2017, , .		7
5	Bandgap and temperature dependence of Auger recombination in InAs/InAsSb type-II superlattices. Journal of Applied Physics, 2016, 119, 215705.	2.5	24
6	Optimization of norovirus virusâ€like particle production in Pichia pastoris using a realâ€time nearâ€infrared bioprocess monitor. Biotechnology Progress, 2016, 32, 518-526.	2.6	8
7	Dual-Color InAs/GaSb Cascaded Superlattice Light-Emitting Diodes. IEEE Journal of Quantum Electronics, 2015, 51, 1-6.	1.9	10
8	Real-time monitoring of glycerol and methanol to enhance antibody production in industrial Pichia pastoris bioprocesses. Biochemical Engineering Journal, 2015, 94, 115-124.	3.6	22
9	Advanced nearâ€infrared monitor for stable realâ€time measurement and control of Pichia pastoris bioprocesses. Biotechnology Progress, 2014, 30, 749-759.	2.6	24
10	512$,imes,$512 Individually Addressable MWIR LED Arrays Based on Type-II InAs/GaSb Superlattices. IEEE Journal of Quantum Electronics, 2013, 49, 753-759.	1.9	32
11	All-optical measurement of vertical charge carrier transport in mid-wave infrared InAs/GaSb type-II superlattices. Applied Physics Letters, 2013, 102, 202101.	3.3	28
12	Sb-based IR photodetector epiwafers on 100mm GaSb substrates manufactured by MBE. Infrared Physics and Technology, 2013, 59, 158-162.	2.9	16
13	Cascaded Superlattice InAs/GaSb Light-Emitting Diodes for Operation in the Long-Wave Infrared. IEEE Journal of Quantum Electronics, 2011, 47, 50-54.	1.9	28
14	MBE growth of Sb-based type-II strained layer superlattice structures on multiwafer production reactors. , 2010, , .		4
15	Flip Chip Bonding of 68 $imes$ 68 MWIR LED Arrays. IEEE Transactions on Electronics Packaging Manufacturing, 2009, 32, 9-13.	1.4	15
16	High-Power MWIR Cascaded InAsâ€“GaSb Superlattice LEDs. IEEE Journal of Quantum Electronics, 2009, 45, 849-853.	1.9	25
17	On-Line Near-Infrared Spectrometer to Monitor Urea Removal in Real Time during Hemodialysis. Applied Spectroscopy, 2008, 62, 866-872.	2.2	18
18	Active Region Cascading for Improved Performance in InAsâ€“GaSb Superlattice LEDs. IEEE Journal of Quantum Electronics, 2008, 44, 1242-1247.	1.9	19

#	Article	IF	Citations
19	Leakage mechanisms and potential performance of molecular-beam epitaxially grown GaInAsSb 2.4â€‚Î¼m photodiode detectors. Journal of Applied Physics, 2008, 103, 104511.	2.5	13
20	InAsâ•GaSb cascaded active region superlattice light emitting diodes for operation at 3.8Î¼m. Applied Physics Letters, 2008, 92, 121106.	3.3	17
21	Selectivity Assessment of Noninvasive Glucose Measurements Based on Analysis of Multivariate Calibration Vectors. Journal of Diabetes Science and Technology, 2007, 1, 454-462.	2.2	30
22	In Vivo Near-Infrared Spectroscopy of Rat Skin Tissue with Varying Blood Glucose Levels. Analytical Chemistry, 2006, 78, 215-223.	6.5	79
23	Cascaded active regions in 2.4Î¼m GaInAsSb light-emitting diodes for improved current efficiency. Applied Physics Letters, 2006, 89, 211108.	3.3	20
24	Optical microsensor for continuous glucose measurements in interstitial fluid. , 2006, , .		11
25	MBE-grown high-efficiency GaInAsSb mid-infrared detectors operating under back illumination. Semiconductor Science and Technology, 2006, 21, 267-272.	2.0	31
26	Quaternary GaInAsSb 2.0-2.5 micron back-illuminated focal plane array for blood glucose monitoring. , 2005, , .		2
27	Tunable laser diode system for noninvasive blood glucose measurements. , 2005, 5702, 23.		3
28	Tunable Laser Diode System for Noninvasive Blood Glucose Measurements. Applied Spectroscopy, 2005, 59, 1480-1484.	2.2	68
29	Online Measurement of Urea Concentration in Spent Dialysate during Hemodialysis. Clinical Chemistry, 2004, 50, 175-181.	3.2	44
30	In vivo near-infrared spectroscopy of rat skin tissue with varying blood glucose levels. , 2004, , .		2
31	Auger recombination in narrow-gap semiconductor superlattices incorporating antimony. Journal of Applied Physics, 2002, 92, 7311-7316.	2.5	81
32	<title>Online measurement of urea concentration in spent dialysate during hemodialysis</title>. , 2002, , .		4
33	Mid-infrared InAs/GaInSb separate confinement heterostructure laser diode structures. Journal of Applied Physics, 2001, 89, 3283-3289.	2.5	9
34	High detectivity InGaAsSb pin infrared photodetector for blood glucose sensing. Electronics Letters, 2000, 36, 1301.	1.0	39
35	Temperature-Insensitive Near-Infrared Method for Determination of Protein Concentration during Protein Crystal Growth. Analytical Chemistry, 2000, 72, 4985-4990.	6.5	24
36	Experimental and theoretical density-dependent absorption spectra in (GaInSb/InAs)/AlGaSb superlattice multiple quantum wells. Applied Physics Letters, 1998, 72, 229-231.	3.3	25