

Ofer Levi

List of Publications by Year in descending order

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56
papers

704
citations

623734

14
h-index

580821

25
g-index

57
all docs

57
docs citations

57
times ranked

763
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensitivity enhancement in photonic crystal slab biosensors. <i>Optics Express</i> , 2010, 18, 22702.	3.4	161
2	Monolithically integrated semiconductor fluorescence sensor for microfluidic applications. <i>Sensors and Actuators B: Chemical</i> , 2005, 105, 393-399.	7.8	68
3	Integrated bio-fluorescence sensor. <i>Journal of Chromatography A</i> , 2003, 1013, 103-110.	3.7	56
4	Enhanced detection limit by dark mode perturbation in 2D photonic crystal slab refractive index sensors. <i>Optics Express</i> , 2013, 21, 31698.	3.4	45
5	Rapid monitoring of cerebral ischemia dynamics using laser-based optical imaging of blood oxygenation and flow. <i>Biomedical Optics Express</i> , 2012, 3, 777.	2.9	34
6	Implantable semiconductor biosensor for continuous in vivo sensing of far-red fluorescent molecules. <i>Optics Express</i> , 2010, 18, 12513.	3.4	27
7	Sensitivity analysis of a photonic crystal structure for index-of-refraction sensing. , 2007, , .		26
8	Imaging brain activity during seizures in freely behaving rats using a miniature multi-modal imaging system. <i>Biomedical Optics Express</i> , 2016, 7, 3596.	2.9	25
9	Laser speckle contrast imaging with extended depth of field for in-vivo tissue imaging. <i>Biomedical Optics Express</i> , 2014, 5, 123.	2.9	24
10	New conjugated polymer/sol-gel glass composites: Luminescence and optical waveguides. <i>Advanced Materials</i> , 1996, 8, 833-837.	21.0	23
11	Rapid multiexposure in vivo brain imaging system using vertical cavity surface emitting lasers as a light source. <i>Applied Optics</i> , 2013, 52, C64.	1.8	19
12	Multi-modality optical neural imaging using coherence control of VCSELs. <i>Optics Express</i> , 2011, 19, 10747.	3.4	17
13	Single-phase growth studies of GaP on Si by solid-source molecular beam epitaxy. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004, 22, 1450.	1.6	16
14	Integrated semiconductor optical sensors for cellular and neural imaging. <i>Applied Optics</i> , 2007, 46, 1881.	2.1	16
15	Analysis of the Regularization Parameters of Primalâ€™Dual Interior Method for Convex Objectives Applied to 1H Low Field Nuclear Magnetic Resonance Data Processing. <i>Applied Magnetic Resonance</i> , 2018, 49, 1129-1150.	1.2	16
16	Evaluation of laser speckle contrast imaging as an intrinsic method to monitor blood brain barrier integrity. <i>Biomedical Optics Express</i> , 2013, 4, 1856.	2.9	14
17	A photo-oxidation mechanism for patterning and hologram formation in conjugated polymer/glass composites. <i>Journal of Applied Physics</i> , 2000, 88, 1236-1243.	2.5	13
18	Real-time, continuous, fluorescence sensing in a freely-moving subject with an implanted hybrid VCSEL/CMOS biosensor. <i>Biomedical Optics Express</i> , 2013, 4, 1332.	2.9	13

#	ARTICLE	IF	CITATIONS
19	<title>Integrated semiconductor fluorescent detection system for biochip and biomedical applications</title>. , 2002, 4626, 289.		11
20	Reducing misfocus-related motion artefacts in laser speckle contrast imaging. Biomedical Optics Express, 2015, 6, 266.	2.9	11
21	Refractive-index-based ultrasound sensing with photonic crystal slabs. Optics Letters, 2019, 44, 2609.	3.3	8
22	Continuous sensing of tumor-targeted molecular probes with a vertical cavity surface emitting laser-based biosensor. Journal of Biomedical Optics, 2012, 17, 117004.	2.6	7
23	Continuous multi-modality brain imaging reveals modified neurovascular seizure response after intervention. Biomedical Optics Express, 2017, 8, 873.	2.9	7
24	Simulation-Based Sensitivity Analysis of Regularization Parameters for Robust Reconstruction of Complex Material's T1's T2's T2* T2H LF-NMR Energy Relaxation Signals. Applied Magnetic Resonance, 2020, 51, 41-58.	2.5	7
25	Holographic storage in conjugated-polymer composites. Physical Review B, 1998, 57, R12647-R12650.	3.2	5
26	Implantable optical biosensor for in vivo molecular imaging. , 2009, , .		5
27	High-throughput integration of optoelectronics devices for biochip fluorescent detection. , 2003, 4982, 162.		4
28	Tailoring of spectral response and spatial field distribution with corrugated photonic crystal slab. Optics Letters, 2015, 40, 3715.	3.3	4
29	Laser background characterization in a monolithically integrated bio-fluorescence sensor. , 2004, 5318, 59.		3
30	Guided-resonance in photonic crystal slabs for biosensing applications. , 2006, , .		3
31	Data compression and improved registration for laser speckle contrast imaging of rodent brains. Biomedical Optics Express, 2018, 9, 5615.	2.9	3
32	Nano-fabrication dependent quality factor in photonic crystal slab biosensors. , 2010, , .		2
33	Real-time ultrasound sensing with a mode-optimized photonic crystal slab. Optics Letters, 2021, 46, 3372.	3.3	2
34	Evaluation of High Quality Factor Photonic Crystal Slabs for Biosensing. , 2011, , .		2
35	Optical Characterization and Sensitivity Evaluation of Guided-Resonances in Photonic Crystal Slabs for Biosensing Applications. , 2007, , .		1
36	Near-infrared in vivo fluorescence sensor with integrated dielectric emission filter. , 2009, , .		1

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37	Robust estimation of vessel misfocus and real-time misfocus correction in laser speckle contrast imaging. Proceedings of SPIE, 2015, , .	0.8	1
38	Multi-modal in vivo imaging of brain blood oxygenation, blood flow and neural calcium dynamics during acute seizures. , 2016, , .		1
39	Ultrasound Sensing with a Photonic Crystal Slab. , 2018, , .		1
40	An Integrated Broadband Ultrasound Sensor based on a Photonic Crystal Slab. , 2019, , .		1
41	Speckle contrast at deviations from best focus in microfluidic and in vivo. , 2012, , .		1
42	<title>Oxygen-dependent hologram writing and fixing in conjugated polymer storage media</title>. , 1999, 3802, 100.		0
43	Transition from two dimensional photonic crystal slab to one dimensional corrugated grating. , 2015, , .		0
44	Miniature device for chronic, label-free multi-modal optical imaging of cortical hemodynamics in rats. , 2015, , .		0
45	Chronic monitoring of cortical hemodynamics in behaving, freely-moving rats using a miniaturized head-mounted optical microscope. Proceedings of SPIE, 2016, , .	0.8	0
46	Integrated Semiconductor Bio-Sensors for In Vivo Cellular and Neural Imaging. , 2006, , .		0
47	GaAs-based integrated fluorescence bio-sensors: Progress towards high rejection of laser excitation light. , 2008, , .		0
48	Crossed-polarization Analysis of Guided Modes in Photonic Crystal Slab Biosensors. , 2011, , .		0
49	Deviations in Long Exposure Laser Speckle Contrast Imaging: Accounting for Static Scatterers. , 2012, , .		0
50	CMOS camera based imaging of brain hemodynamic. , 2012, , .		0
51	Laser contrast speckle imaging to monitor blood brain barrier integrity. , 2012, , .		0
52	A New Scheme for Improvement of Index of Refraction Detection Limit in 2D Photonic Crystals. , 2013, , .		0
53	In-vivo depth evaluation in brain imaging by coherence length tuning of VCSELs. , 2013, , .		0
54	Multi-modality optical imaging of temporal and spatial dynamics during in vivo seizure-like activity. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
55	Sensitizing an all-optical ultrasound sensor with a polymer overlayer. , 2020, , .		0
56	Identifying Optimal Photonic Crystal Sensor Designs with Machine Learning. , 2020, , .		0