

# 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	Real-time ultrasound sensing with a mode-optimized photonic crystal slab. Optics Letters, 2021, 46, 3372.	3.3	2
2	Simulation-Based Sensitivity Analysis of Regularization Parameters for Robust Reconstruction of Complex Material's T1 and T2 1H LF-NMR Energy Relaxation Signals. Applied Magnetic Resonance, 2020, 51, 41-58.	5.1	7
3	Sensitizing an all-optical ultrasound sensor with a polymer overlayer. , 2020, , .		0
4	Identifying Optimal Photonic Crystal Sensor Designs with Machine Learning. , 2020, , .		0
5	An Integrated Broadband Ultrasound Sensor based on a Photonic Crystal Slab. , 2019, , .		1
6	Refractive-index-based ultrasound sensing with photonic crystal slabs. Optics Letters, 2019, 44, 2609.	3.3	8
7	Data compression and improved registration for laser speckle contrast imaging of rodent brains. Biomedical Optics Express, 2018, 9, 5615.	2.9	3
8	Analysis of the Regularization Parameters of Primal-Dual Interior Method for Convex Objectives Applied to 1H Low Field Nuclear Magnetic Resonance Data Processing. Applied Magnetic Resonance, 2018, 49, 1129-1150.	1.2	16
9	Ultrasound Sensing with a Photonic Crystal Slab. , 2018, , .		1
10	Continuous multi-modality brain imaging reveals modified neurovascular seizure response after intervention. Biomedical Optics Express, 2017, 8, 873.	2.9	7
11	Imaging brain activity during seizures in freely behaving rats using a miniature multi-modal imaging system. Biomedical Optics Express, 2016, 7, 3596.	2.9	25
12	Multi-modal in vivo imaging of brain blood oxygenation, blood flow and neural calcium dynamics during acute seizures. , 2016, , .		1
13	Chronic monitoring of cortical hemodynamics in behaving, freely-moving rats using a miniaturized head-mounted optical microscope. Proceedings of SPIE, 2016, , .	0.8	0
14	Multi-modality optical imaging of temporal and spatial dynamics during in vivo seizure-like activity. , 2016, , .		0
15	Transition from two dimensional photonic crystal slab to one dimensional corrugated grating. , 2015, , .		0
16	Reducing misfocus-related motion artefacts in laser speckle contrast imaging. Biomedical Optics Express, 2015, 6, 266.	2.9	11
17	Tailoring of spectral response and spatial field distribution with corrugated photonic crystal slab. Optics Letters, 2015, 40, 3715.	3.3	4
18	Miniature device for chronic, label-free multi-modal optical imaging of cortical hemodynamics in rats. , 2015, , .		0

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19	Robust estimation of vessel misfocus and real-time misfocus correction in laser speckle contrast imaging. Proceedings of SPIE, 2015, , .	0.8	1
20	Laser speckle contrast imaging with extended depth of field for in-vivo tissue imaging. Biomedical Optics Express, 2014, 5, 123.	2.9	24
21	Rapid multiexposure in vivo brain imaging system using vertical cavity surface emitting lasers as a light source. Applied Optics, 2013, 52, C64.	1.8	19
22	Real-time, continuous, fluorescence sensing in a freely-moving subject with an implanted hybrid VCSEL/CMOS biosensor. Biomedical Optics Express, 2013, 4, 1332.	2.9	13
23	Evaluation of laser speckle contrast imaging as an intrinsic method to monitor blood brain barrier integrity. Biomedical Optics Express, 2013, 4, 1856.	2.9	14
24	Enhanced detection limit by dark mode perturbation in 2D photonic crystal slab refractive index sensors. Optics Express, 2013, 21, 31698.	3.4	45
25	A New Scheme for Improvement of Index of Refraction Detection Limit in 2D Photonic Crystals. , 2013, , .		0
26	In-vivo depth evaluation in brain imaging by coherence length tuning of VCSELs. , 2013, , .		0
27	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
28	Rapid monitoring of cerebral ischemia dynamics using laser-based optical imaging of blood oxygenation and flow. Biomedical Optics Express, 2012, 3, 777.	2.9	34
29	Deviations in Long Exposure Laser Speckle Contrast Imaging: Accounting for Static Scatterers. , 2012, , .		0
30	CMOS camera based imaging of brain hemodynamic. , 2012, , .		0
31	Laser contrast speckle imaging to monitor blood brain barrier integrity. , 2012, , .		0
32	Speckle contrast at deviations from best focus in microfluidic and in vivo. , 2012, , .		1
33	Multi-modality optical neural imaging using coherence control of VCSELs. Optics Express, 2011, 19, 10747.	3.4	17
34	Evaluation of High Quality Factor Photonic Crystal Slabs for Biosensing. , 2011, , .		2
35	Crossed-polarization Analysis of Guided Modes in Photonic Crystal Slab Biosensors. , 2011, , .		0
36	Implantable semiconductor biosensor for continuous in vivo sensing of far-red fluorescent molecules. Optics Express, 2010, 18, 12513.	3.4	27

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37	Sensitivity enhancement in photonic crystal slab biosensors. <i>Optics Express</i> , 2010, 18, 22702.	3.4	161
38	Nano-fabrication dependent quality factor in photonic crystal slab biosensors. , 2010, , .		2
39	Near-infrared in vivo fluorescence sensor with integrated dielectric emission filter. , 2009, , .		1
40	Implantable optical biosensor for in vivo molecular imaging. , 2009, , .		5
41	GaAs-based integrated fluorescence bio-sensors: Progress towards high rejection of laser excitation light. , 2008, , .		0
42	Optical Characterization and Sensitivity Evaluation of Guided-Resonances in Photonic Crystal Slabs for Biosensing Applications. , 2007, , .		1
43	Sensitivity analysis of a photonic crystal structure for index-of-refraction sensing. , 2007, , .		26
44	Integrated semiconductor optical sensors for cellular and neural imaging. <i>Applied Optics</i> , 2007, 46, 1881.	2.1	16
45	Guided-resonance in photonic crystal slabs for biosensing applications. , 2006, , .		3
46	Integrated Semiconductor Bio-Sensors for In Vivo Cellular and Neural Imaging. , 2006, , .		0
47	Monolithically integrated semiconductor fluorescence sensor for microfluidic applications. <i>Sensors and Actuators B: Chemical</i> , 2005, 105, 393-399.	7.8	68
48	Single-phase growth studies of GaP on Si by solid-source molecular beam epitaxy. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004, 22, 1450.	1.6	16
49	Laser background characterization in a monolithically integrated bio-fluorescence sensor. , 2004, 5318, 59.		3
50	Integrated bio-fluorescence sensor. <i>Journal of Chromatography A</i> , 2003, 1013, 103-110.	3.7	56
51	High-throughput integration of optoelectronics devices for biochip fluorescent detection. , 2003, 4982, 162.		4
52	<title>Integrated semiconductor fluorescent detection system for biochip and biomedical applications</title>. , 2002, 4626, 289.		11
53	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
54	<title>Oxygen-dependent hologram writing and fixing in conjugated polymer storage media</title>. , 1999, 3802, 100.		0

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55	Holographic storage in conjugated-polymer composites. Physical Review B, 1998, 57, R12647-R12650.	3.2	5
56	New conjugated polymer/sol-gel glass composites: Luminescence and optical waveguides. Advanced Materials, 1996, 8, 833-837.	21.0	23