

# Vadakke M Murukeshan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7108407/publications.pdf>

Version: 2024-02-01

249  
papers

2,835  
citations

172207

29  
h-index

253896

43  
g-index

251  
all docs

251  
docs citations

251  
times ranked

2336  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lasers in additive manufacturing: A review. International Journal of Precision Engineering and Manufacturing - Green Technology, 2017, 4, 307-322.	2.7	310
2	Cure monitoring of smart composites using Fiber Bragg Grating based embedded sensors. Sensors and Actuators A: Physical, 2000, 79, 153-161.	2.0	149
3	Compact SOI nanowire refractive index sensor using phase shifted Bragg grating. Optics Express, 2009, 17, 15330.	1.7	91
4	Spectral phase-based automatic calibration scheme for swept source-based optical coherence tomography systems. Physics in Medicine and Biology, 2016, 61, 7652-7663.	1.6	54
5	Fluorescence optimisation and lifetime studies of fingerprints treated with magnetic powders. Forensic Science International, 2005, 152, 249-257.	1.3	53
6	A review on optical bandgap engineering in TiO <sub>2</sub> nanostructures via doping and intrinsic vacancy modulation towards visible light applications. Journal Physics D: Applied Physics, 2022, 55, 313003.	1.3	53
7	Femtosecond laser-induced damage morphologies of crystalline silicon by sub-threshold pulses. Optics and Lasers in Engineering, 2005, 43, 977-986.	2.0	50
8	An efficient phase analysis-based wavenumber linearization scheme for swept source optical coherence tomography systems. Laser Physics Letters, 2015, 12, 055601.	0.6	44
9	Highly sensitive optical detection of specific protein in breast cancer cells using microstructured fiber in extremely low sample volume. Journal of Biomedical Optics, 2010, 15, 017005.	1.4	43
10	Discrete and Fine Wavelength Tunable Thermo-Optic WSS for Low Power Consumption $\{m C\}^{+}\{m L\}$ Band Tunability. IEEE Photonics Technology Letters, 2012, 24, 152-154.	1.3	40
11	A four-dimensional snapshot hyperspectral video-endoscope for bio-imaging applications. Scientific Reports, 2016, 6, 24044.	1.6	40
12	On-line health monitoring of smart composite structures using fiber polarimetric sensor. Smart Materials and Structures, 1999, 8, 544-548.	1.8	39
13	A novel integrated micromachined tunable laser using polysilicon 3-D mirror. IEEE Photonics Technology Letters, 2001, 13, 427-429.	1.3	38
14	Excitation of gap modes in a metal particle-surface system for sub-30 nm plasmonic lithography. Optics Letters, 2009, 34, 845.	1.7	38
15	Large-area maskless surface plasmon interference for one- and two-dimensional periodic nanoscale feature patterning. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2010, 27, 95.	0.8	38
16	Analysis on the nature of thermally induced deformation in human dentine by electronic speckle pattern interferometry (ESPI). Journal of Dentistry, 2001, 29, 531-537.	1.7	37
17	Design, fabrication, and characterization of thermoplastic microlenses for fiber-optic probe imaging. Applied Optics, 2014, 53, 1083.	0.9	37
18	Interferometric lithography for nanoscale feature patterning: a comparative analysis between laser interference, evanescent wave interference, and surface plasmon interference. Applied Optics, 2010, 49, 6710.	2.1	36

#	ARTICLE	IF	CITATIONS
19	Pixelate Removal in an Image Fiber Probe Endoscope Incorporating Comb Structure Removal Methods. <i>Journal of Medical Imaging and Health Informatics</i> , 2014, 4, 203-211.	0.2	36
20	An optical crossconnect (OXC) using drawbridge micromirrors. <i>Sensors and Actuators A: Physical</i> , 2002, 97-98, 227-238.	2.0	35
21	High resolution iridocorneal angle imaging system by axicon lens assisted gonioscopy. <i>Scientific Reports</i> , 2016, 6, 30844.	1.6	35
22	Bifunctional Fluorescent/Raman Nanoprobe for the Early Detection of Amyloid. <i>Scientific Reports</i> , 2019, 9, 8497.	1.6	34
23	Polarization phase shifting shearography for optical metrological applications. <i>Optics and Laser Technology</i> , 1998, 30, 527-531.	2.2	33
24	Formulation and implementation of a phase-resolved fluorescence technique for latent-fingerprint imaging: theoretical and experimental analysis. <i>Applied Optics</i> , 2005, 44, 297.	2.1	33
25	Four beams evanescent waves interference lithography for patterning of two dimensional features. <i>Optics Express</i> , 2007, 15, 3437.	1.7	31
26	A planar layer configuration for surface plasmon interference nanoscale lithography. <i>Applied Physics Letters</i> , 2008, 93, 093103.	1.5	31
27	Separation of the influence of in-plane displacement in multiaperture speckle shear interferometry. <i>Optical Engineering</i> , 1994, 33, 1973.	0.5	30
28	Time-resolved imaging of latent fingerprints with nanosecond resolution. <i>Optics and Laser Technology</i> , 2004, 36, 371-376.	2.2	30
29	Patterning of two-dimensional nanoscale features using grating-based multiple beams interference lithography. <i>Physica Scripta</i> , 2009, 80, 015401.	1.2	30
30	Micromachined wavelength tunable laser with an extended feedback model. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2002, 8, 73-79.	1.9	28
31	An all fiber optic system modeling for the gastrointestinal endoscopy: design concepts and fluorescent analysis. <i>Optics Communications</i> , 2003, 219, 71-79.	1.0	28
32	Integrated photoacoustic, ultrasound and fluorescence platform for diagnostic medical imaging-proof of concept study with a tissue mimicking phantom. <i>Biomedical Optics Express</i> , 2014, 5, 2135.	1.5	27
33	Laser-induced reduced-graphene-oxide micro-optics patterned by femtosecond laser direct writing. <i>Applied Surface Science</i> , 2020, 526, 146647.	3.1	25
34	Digital speckle pattern interferometry for deformation analysis of inner surfaces of cylindrical specimens. <i>Applied Optics</i> , 2004, 43, 2400.	2.1	24
35	Gold nanorods with higher aspect ratio as potential contrast agent in optical coherence tomography and for photothermal applications around 1300 nm imaging window. <i>Biomedical Physics and Engineering Express</i> , 2016, 2, 055005.	0.6	24
36	Four beams surface plasmon interference nanoscale lithography for patterning of two-dimensional periodic features. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010, 28, 128-130.	0.6	23

#	ARTICLE	IF	CITATIONS
37	Surface plasmon enhancement in gold nanoparticles in the presence of an optical gain medium: an analysis. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 425102.	1.3	22
38	Quantitative optical coherence microscopy for the <i>in situ</i> investigation of the biofilm. <i>Journal of Biomedical Optics</i> , 2016, 21, 127002.	1.4	22
39	Hydrogen sensors based on Pt-loaded WO <sub>3</sub> sensing layers. <i>Europhysics Letters</i> , 2016, 114, 66002.	0.7	21
40	Gold nanocages entering into the realm of high-contrast photoacoustic ocular imaging. <i>Nanoscale</i> , 2018, 10, 13959-13968.	2.8	21
41	Graphene Oxide Wrapping of Gold-Silica Core-Shell Nanohybrids for Photoacoustic Signal Generation and Bimodal Imaging. <i>ChemNanoMat</i> , 2015, 1, 39-45.	1.5	20
42	Progress in anterior chamber angle imaging for glaucoma risk prediction – A review on clinical equipment, practice and research. <i>Medical Engineering and Physics</i> , 2016, 38, 1383-1391.	0.8	20
43	Nondestructive inspection of tissue/tissue like phantom curved surfaces using digital speckle shearography. <i>Optical Engineering</i> , 2004, 43, 3055.	0.5	19
44	Application of fluorescence lifetime imaging (FLIM) in latent finger mark detection. <i>Forensic Science International</i> , 2006, 160, 109-114.	1.3	19
45	Transferable ultra-thin multi-level micro-optics patterned by tunable photoreduction and photoablation for hybrid optics. <i>Carbon</i> , 2019, 149, 572-581.	5.4	19
46	Nano-scale three dimensional surface relief features using single exposure counterpropagating multiple evanescent waves interference phenomenon. <i>Optics Express</i> , 2008, 16, 13857.	1.7	18
47	A fixed-grid method for chemical etching. <i>International Communications in Heat and Mass Transfer</i> , 2004, 31, 1123-1131.	2.9	17
48	Hyperspectral imaging of polymer banknotes for building and analysis of spectral library. <i>Optics and Lasers in Engineering</i> , 2017, 98, 168-175.	2.0	17
49	Au nano-urchins enabled localized surface plasmon resonance sensing of beta amyloid fibrillation. <i>Nanoscale Advances</i> , 2020, 2, 2693-2698.	2.2	17
50	Low threshold incoherent random lasing with spectral overlap optimization of size-tuned plasmonic nanorods. <i>Optics and Laser Technology</i> , 2021, 139, 106959.	2.2	17
51	Integrated flexible handheld probe for imaging and evaluation of iridocorneal angle. <i>Journal of Biomedical Optics</i> , 2015, 20, 016014.	1.4	16
52	Surface Plasmon Polariton-coupled Waveguide Back Reflector in Thin-film Silicon Solar Cell. <i>Plasmonics</i> , 2016, 11, 253-260.	1.8	16
53	Enhanced absorption in a graphene embedded 1D guided-mode-resonance structure without back-reflector and interferometrically written gratings. <i>Optics Letters</i> , 2019, 44, 3661.	1.7	16
54	A fixed-grid approach for diffusion- and reaction-controlled wet chemical etching. <i>International Journal of Heat and Mass Transfer</i> , 2005, 48, 2140-2149.	2.5	15

#	ARTICLE	IF	CITATIONS
55	Hollow-core photonic crystal fiber based multifunctional optical system for trapping, position sensing, and detection of fluorescent particles. <i>Optics Letters</i> , 2012, 37, 1607.	1.7	15
56	Modified two prism SPR sensor configurations to improve the sensitivity of measurement. <i>Sensors and Actuators A: Physical</i> , 2013, 191, 73-77.	2.0	14
57	Pushbroom hyperspectral imaging system with selectable region of interest for medical imaging. <i>Journal of Biomedical Optics</i> , 2015, 20, 046010.	1.4	14
58	A targeted illumination optical fiber probe for high resolution fluorescence imaging and optical switching. <i>Scientific Reports</i> , 2017, 7, 45654.	1.6	14
59	SURFACE DAMAGE OF CRYSTALLINE SILICON BY LOW FLUENCE FEMTOSECOND LASER PULSES. <i>Surface Review and Letters</i> , 2004, 11, 217-221.	0.5	13
60	All fiber based multispeckle modality endoscopic system for imaging medical cavities. <i>Review of Scientific Instruments</i> , 2007, 78, 053106.	0.6	13
61	Integrated simultaneous dual-modality imaging endospeckle fluoroscope system for early colon cancer diagnosis. <i>Optical Engineering</i> , 2005, 44, 110501.	0.5	12
62	Improved light absorption in thin film solar cell using combination of gap modes and grating back reflector. <i>Thin Solid Films</i> , 2013, 548, 581-584.	0.8	12
63	Optical frequency domain imaging with a rapidly swept laser in the 1300nm bio-imaging window. <i>Proceedings of SPIE</i> , 2015, , .	0.8	12
64	Spatial-scanning hyperspectral imaging probe for bio-imaging applications. <i>Review of Scientific Instruments</i> , 2016, 87, 033707.	0.6	12
65	Plasmon Resonant Silica-Coated Silver Nanoplates as Contrast Agents for Optical Coherence Tomography. <i>Journal of Biomedical Nanotechnology</i> , 2016, 12, 1929-1937.	0.5	12
66	Intracore fiber Bragg gratings for strain measurement in embedded composite structures. <i>Applied Optics</i> , 2001, 40, 145.	2.1	11
67	Modeling two-dimensional diffusion-controlled wet chemical etching using a total concentration approach. <i>International Journal of Heat and Mass Transfer</i> , 2006, 49, 1480-1488.	2.5	11
68	Gap modes assisted enhanced broadband light absorption in plasmonic thin film solar cell. <i>Journal of Applied Physics</i> , 2011, 110, 033107.	1.1	11
69	Optical sectioning and high resolution visualization of trabecular meshwork using Bessel beam assisted light sheet fluorescence microscopy. <i>Journal of Biophotonics</i> , 2019, 12, e201900048.	1.1	11
70	Attachable micropseudocapacitors using highly swollen laser-induced-graphene electrodes. <i>Chemical Engineering Journal</i> , 2020, 386, 123972.	6.6	11
71	Opto-digital system for curvature measurement. <i>Optical Engineering</i> , 2001, 40, 340.	0.5	10
72	Photonic crystal fiber-based dual-modality probe for simultaneous sensing and imaging applications. <i>Optical Engineering</i> , 2009, 48, 103601.	0.5	10

#	ARTICLE	IF	CITATIONS
73	Red, green, and blue gray-value shift-based approach to whole-field imaging for tissue diagnostics. <i>Journal of Biomedical Optics</i> , 2012, 17, 0760101.	1.4	10
74	Speckle lithography for fabricating Gaussian, quasi-random 2D structures and black silicon structures. <i>Scientific Reports</i> , 2016, 5, 18452.	1.6	10
75	Surface roughness evaluation of additive manufactured metallic components from white light images captured using a flexible fiberscope. <i>Optics and Lasers in Engineering</i> , 2018, 110, 262-271.	2.0	10
76	(Cu <sub>2</sub> O-Au) " Graphene - Au layered structures as efficient near Infra - Red SERS substrates. <i>Scientific Reports</i> , 2020, 10, 4152.	1.6	10
77	A Total Concentration Fixed-Grid Method for Two-Dimensional Wet Chemical Etching. <i>Journal of Heat Transfer</i> , 2007, 129, 509-516.	1.2	9
78	Single-exposure maskless plasmonic lithography for patterning of periodic nanoscale grating features. <i>Journal of Micro/ Nanolithography, MEMS, and MOEMS</i> , 2010, 9, 023007.	1.0	9
79	Periodic feature patterning by lens based solid immersion multiple beam laser interference lithography. <i>Laser Physics Letters</i> , 2012, 9, 691-696.	0.6	9
80	Development of high-sensitive, reproducible colloidal surface-enhanced Raman spectroscopy active substrate using silver nanocubes for potential biosensing applications. <i>Journal of Nanophotonics</i> , 2016, 10, 026020.	0.4	9
81	Gold nano-urchins for plasmonic enhancement of random lasing in a dye-doped polymer. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 065003.	1.0	9
82	Thermally Controlled Localized Porous Graphene for Integrated Graphene Paper Electronics. <i>Advanced Materials Technologies</i> , 2021, 6, 2001156.	3.0	9
83	Theoretical analysis of phase-resolved fluorescence emission from fingerprint samples. <i>Optics Communications</i> , 2003, 223, 55-60.	1.0	8
84	Development of Matlab filtering techniques in digital speckle pattern interferometry. <i>Optics and Lasers in Engineering</i> , 2003, 39, 441-448.	2.0	8
85	Homodyne and heterodyne signal processing assisted phase resolved optical technique for latent fingerprint imaging: a theoretical study. <i>Journal of Modern Optics</i> , 2005, 52, 119-129.	0.6	8
86	An image fiber based fluorescent probe with associated signal processing scheme for biomedical diagnostics. <i>Laser Physics Letters</i> , 2008, 5, 760-763.	0.6	8
87	Multiple beams surface plasmon interference generation: A theoretical analysis. <i>Optics Communications</i> , 2011, 284, 2042-2045.	1.0	8
88	Note: A gel based imaging technique of the iridocorneal angle for evaluation of angle-closure glaucoma. <i>Review of Scientific Instruments</i> , 2014, 85, 066105.	0.6	8
89	Plasmonic nanopillar coupled two-dimensional random medium for broadband light trapping and harvesting. <i>Journal of Nanophotonics</i> , 2015, 9, 093061.	0.4	8
90	Individual speckle diffraction based 1D and 2D Random Grating Fabrication for detector and solar energy harvesting applications. <i>Scientific Reports</i> , 2016, 6, 20501.	1.6	8

#	ARTICLE	IF	CITATIONS
91	Imaging of trabecular meshwork using Bessel-Gauss light sheet with fluorescence. <i>Laser Physics Letters</i> , 2017, 14, 035602.	0.6	8
92	Nondestructive characterization of thermal damages and its interactions in carbon fibre composite panels. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2017, 40, 1562-1580.	1.7	8
93	High Resolution Optical Imaging of Epithelial and Neuronal Cells. <i>Journal of Medical Imaging and Health Informatics</i> , 2011, 1, 354-359.	0.2	8
94	Effects of different parameters on the performance of a fiber polarimetric sensor for smart structure applications. <i>Sensors and Actuators A: Physical</i> , 2000, 80, 249-255.	2.0	7
95	Double shearography for engineering metrology: optical and digital approach. <i>Optics and Laser Technology</i> , 2001, 33, 325-328.	2.2	7
96	Integrated micromachined tunable lasers for all optical network (AON) applications. <i>Sensors and Actuators A: Physical</i> , 2002, 97-98, 54-60.	2.0	7
97	Digital speckle pattern interferometric (DSPI) and thermo-graphic investigations on the thermal responds in human teeth. <i>Optics and Lasers in Engineering</i> , 2003, 39, 489-500.	2.0	7
98	Periodic patterning using multi-facet prism based laser interference lithography. <i>Laser Physics</i> , 2009, 19, 505-510.	0.6	7
99	Broadband tunable bandpass filters using phase shifted vertical side wall grating in a submicrometer silicon-on-insulator waveguide. <i>Applied Optics</i> , 2009, 48, 5598.	2.1	7
100	Optimization of compression molding of stand-alone microlenses: Simulation and experimental results. <i>Polymer Engineering and Science</i> , 2010, 50, 2216-2228.	1.5	7
101	Grating-Coupled Plasmonic Sensor for Sucrose Sensing Fabricated Using Optical Fiber-Based Interference Lithography (OFIL) System. <i>IEEE Sensors Journal</i> , 2019, 19, 10477-10481.	2.4	7
102	Remote plasma-assisted low-temperature large-area graphene synthesis. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2019, 37, 041201.	0.6	7
103	Noninvasive and Noncontact Sequential Imaging of the Iridocorneal Angle and the Cornea of the Eye. <i>Translational Vision Science and Technology</i> , 2020, 9, 1.	1.1	7
104	Bio-inspired wrinkle microstructures for random lasing governed by surface roughness. <i>Optics Letters</i> , 2021, 46, 1033.	1.7	7
105	Breaking diffraction limit of far-field imaging via structured illumination Bessel beam microscope (SIBM). <i>Optics Express</i> , 2019, 27, 6068.	1.7	7
106	Ultrafast volume holography for stretchable photonic structures. <i>Optics Express</i> , 2019, 27, 12196.	1.7	7
107	Electronically tunable external-cavity laser diode using a liquid crystal deflector. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 1612-1614.	1.3	6
108	Total concentration approach for three-dimensional diffusion-controlled wet chemical etching. <i>International Journal of Heat and Mass Transfer</i> , 2006, 49, 3408-3416.	2.5	6

#	ARTICLE	IF	CITATIONS
109	Effect of image fiber on the speckle fringe pattern in image fiber-guided DSPI endoscopy. Optics and Laser Technology, 2007, 39, 527-531.	2.2	6
110	Effect of metals on UV-excited plasmonic lithography for $\text{\AA}$ sub-50 $\text{\AA}$ nm periodic feature fabrication. Applied Physics A: Materials Science and Processing, 2010, 101, 117-120.	1.1	6
111	Dye assisted enhanced transmission in near field optical lithography. Optics Communications, 2010, 283, 5245-5249.	1.0	6
112	Sub-60 nm Periodic Grating Feature Patterning by Immersion Based 364 nm Laser Interference. Journal of Nanoscience and Nanotechnology, 2012, 12, 6428-6431.	0.9	6
113	Direct Laser Writing of Graphene-Based Electrical Interconnects for Printed Circuit Board Repair. Advanced Materials Technologies, 2021, 6, 2100514.	3.0	6
114	Hyperspectral z-scan: Measurement of spectrally resolved nonlinear optical properties. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 261, 120005.	2.0	6
115	Analysis of Optical Emission towards Optimisation of Femtosecond Laser Processing. Journal of Laser Micro Nanoengineering, 2006, 1, 136-141.	0.4	6
116	Refractive-diffractive hybrid optics array: comparative analysis of simulation and experiments. Journal of Optics (United Kingdom), 2022, 24, 055401.	1.0	6
117	Fabrication of a stand-alone polymer microlens: design of molding apparatus, simulation and experimental results. Journal of Micromechanics and Microengineering, 2009, 19, 095005.	1.5	5
118	Real Time Monitoring of Fluorescent Particles in Micro-Channels by High Resolution Dual Modality Probe Imaging. Optics and Photonics Journal, 2011, 01, 197-203.	0.3	5
119	Numerical investigation and optimisation of hollow-core photonic crystal fibre for optical trapping of fluorescent microparticles. Micro and Nano Letters, 2011, 6, 785.	0.6	5
120	Optimal detuning combinations in a series coupled silicon micro ring resonator thermo optic-wavelength selective switch. Optical Engineering, 2012, 51, 044604.	0.5	5
121	Conoscopic analysis of electric field driven planar aligned nematic liquid crystal. Applied Optics, 2014, 53, 2773.	0.9	5
122	A simple and non-contact optical imaging probe for evaluation of corneal diseases. Review of Scientific Instruments, 2015, 86, 093702.	0.6	5
123	Dielectric supported bimetal layer configuration for long-range surface plasmon polariton interference-based subwavelength lithography. Optical Engineering, 2015, 54, 097107.	0.5	5
124	Quantification of biofilm thickness using a swept source based optical coherence tomography system. Proceedings of SPIE, 2015, , .	0.8	5
125	Characterization and optimization of illumination vector for contouring surface form and feature using DSPI. Review of Scientific Instruments, 2016, 87, 063116.	0.6	5
126	Hyperspectral photoacoustic spectroscopy of highly-absorbing samples for diagnostic ocular imaging applications. International Journal of Optomechatronics, 2017, 11, 36-46.	3.3	5



#	ARTICLE	IF	CITATIONS
127	Non-focusing dense plasma focus device based alternative synthesis technology for ZnO thin films. Ceramics International, 2020, 46, 4690-4699.	2.3	5
128	An HC-PCF Fluorescence Spectroscopy for Detection of Microsphere Samples Based on Refractive Index Scaling Law. Optics and Photonics Journal, 2011, 01, 85-90.	0.3	5
129	Double shear speckle interferometry for curvature measurement. , 1996, , .		4
130	A novel curvature fringe extraction method from speckle slope fringes. Optics Communications, 2002, 205, 43-48.	1.0	4
131	NANOSECOND RESOLUTION IN FINGERPRINT IMAGING USING OPTICAL TECHNIQUE. International Journal of Nanoscience, 2005, 04, 695-700.	0.4	4
132	Non-destructive inspection of inner surfaces of technical cavities using digital speckle shearography. Nondestructive Testing and Evaluation, 2005, 20, 25-34.	1.1	4
133	Modeling of subwavelength resist grating features fabricated by evanescent waves interference. Optical Engineering, 2008, 47, 129001.	0.5	4
134	Compact resonant Bragg-grating filters using submicron silicon-on-insulator(SOI) waveguide for optical communication network. , 2010, , .		4
135	Characteristics of stand-alone microlenses in fiber-based fluorescence imaging applications. Review of Scientific Instruments, 2011, 82, 043110.	0.6	4
136	Measurement and contouring of micro-scale objects through integrated transillumination in a flexible fiber probe system. Optical Engineering, 2012, 51, 073602.	0.5	4
137	Fiber pixelated image database. Optical Engineering, 2016, 55, 083105.	0.5	4
138	Optical Switch Using Draw-Bridge Micromirror for Large Array Crossconnects. , 2001, , 1296-1299.		4
139	<title>Nondestructive evaluation of fiber-reinforced polymer composites by an all-fiber-optic phase-shifting electronic speckle pattern interferometer</title>. , 1997, , .		4
140	Plasmonic random laser enabled artefact-free wide-field fluorescence bioimaging: uncovering finer cellular features. Nanoscale Advances, 2022, 4, 2278-2287.	2.2	4
141	Fiber Optic Polarimetric Sensor (FOPS) for dynamic applications. , 2001, , .		3
142	External-cavity wavelength tunable laser with an electro-optic deflector. Applied Optics, 2006, 45, 8772.	2.1	3
143	Tunable External Cavity Laser Based on Liquid Crystal Fabry-Perot Interferometer and Liquid Crystal Phase Shifter. International Journal of Optomechatronics, 2007, 1, 63-72.	3.3	3
144	Nano-scale patterning using pyramidal prism based wavefront interference lithography. Physics Procedia, 2011, 19, 416-421.	1.2	3

#	ARTICLE	IF	CITATIONS
145	Pattern definition employing prism-based deep ultraviolet lithography. <i>Micro and Nano Letters</i> , 2011, 6, 109.	0.6	3
146	Analysis on the birefringence property of lyotropic liquid crystals below Krafft temperature. <i>Optical Materials</i> , 2011, 33, 1338-1341.	1.7	3
147	An integrated hollow-core photonic crystal fiber transverse optical trapping system for optical manipulation and detection. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	3
148	Coherent fiber bundle based integrated photoacoustic, ultrasound and fluorescence imaging (PAUSFI) for endoscopy and diagnostic bio-imaging applications. <i>Laser Physics</i> , 2014, 24, 085608.	0.6	3
149	Realization of body centered tetragonal, $\hat{1}^2$ -tin and diamond type structures using five beam interference. <i>Optics Communications</i> , 2014, 322, 160-163.	1.0	3
150	Hybrid-modality high-resolution Imaging: for diagnostic biomedical imaging and sensing for disease diagnosis. <i>Proceedings of SPIE</i> , 2014, , .	0.8	3
151	Hybrid-modality ocular imaging using a clinical ultrasound system and nanosecond pulsed laser. <i>Journal of Medical Imaging</i> , 2015, 2, 036003.	0.8	3
152	Speckle referencing: digital speckle pattern interferometry (SR- DSPI) for imaging of non-diffusive surfaces. <i>Proceedings of SPIE</i> , 2015, , .	0.8	3
153	Imaging behind opaque obstacle: a potential method for guided in vitro needle placement. <i>Biomedical Optics Express</i> , 2016, 7, 5308.	1.5	3
154	Note: Design considerations and characterization of a flexible snapshot hyperspectral probe. <i>Review of Scientific Instruments</i> , 2017, 88, 036107.	0.6	3
155	Particle free optical imaging of flow field by liquid crystal polarization. <i>Optics Express</i> , 2018, 26, 10452.	1.7	3
156	Long working distance high resolution reflective sample imaging via structured embedded speckle illumination. <i>Optics and Lasers in Engineering</i> , 2020, 134, 106296.	2.0	3
157	Integrated Micromachined Tunable Lasers for All-Optical Network Applications. , 2001, , 1286-1289.		3
158	Trends in digital speckle pattern interferometry. <i>Optics and Lasers in Engineering</i> , 2003, 39, 409-410.	2.0	2
159	Derivative using low frequency carrier fringes. <i>Measurement: Journal of the International Measurement Confederation</i> , 2003, 34, 111-119.	2.5	2
160	Imaging considerations in fiber optic endoscopy system for the gastrointestinal endoscopy. , 2003, , .		2
161	Homodyne assisted multistep phase shifting in phase-resolved optical technique for latent fingerprint imaging. <i>Optical Engineering</i> , 2004, 43, 2831.	0.5	2
162	Polymer microlens with independent control of radius and focal length for an imaging fiber. , 2005, , .		2

#	ARTICLE	IF	CITATIONS
163	Subnanosecond-resolution phase-resolved fluorescence imaging technique for biomedical applications. Applied Optics, 2006, 45, 5020.	2.1	2
164	C-band external-cavity wavelength-tunable laser based on a liquid-crystal deflector. Applied Optics, 2007, 46, 5866.	2.1	2
165	Diagnosis of colon cancer using frequency domain fluorescence imaging technique. Optics Communications, 2007, 271, 291-301.	1.0	2
166	Investigation of pupil-fill factors as process window indicators for dry optical lithography. Optics and Laser Technology, 2008, 40, 142-155.	2.2	2
167	Resonant amplification of frustrated evanescent waves by single dielectric coating. Optics Communications, 2010, 283, 169-175.	1.0	2
168	Laser beam propagation in a flow aligned nematic liquid crystal: analysis on liquid/light interactions. Optical Engineering, 2011, 50, 050501.	0.5	2
169	Precisely rectilinear electro-thermal microactuator using a high-aspect ratio microstructured Si/SU-8 composite. Journal of Micromechanics and Microengineering, 2012, 22, 115020.	1.5	2
170	Asymmetric transmission and optical low-pass filtering in a stack of random media with graded transport mean free path. Optical Materials, 2015, 49, 15-20.	1.7	2
171	Instrumentation challenges of a pushbroom hyperspectral imaging system for currency counterfeit applications. , 2015, , .		2
172	Speckle lithography for fabricating biomimetic spindle structures of desert beetle skin. Biomedical Physics and Engineering Express, 2017, 3, 025003.	0.6	2
173	Direct laser writing of graphene oxide patterns using femtosecond laser pulses with different repetition rates. , 2017, , .		2
174	Direct laser writing of tunable diffractive micro-optics on graphene oxide film. , 2018, , .		2
175	<title>FOPSESPI for nondestructive evaluation (NDE) of composites</title>. , 1999, , .		2
176	Fractal speckle image analysis for surface characterization of aerospace structures. Proceedings of SPIE, 2017, , .	0.8	2
177	Surface roughness mapping of large area curved aerospace components through spectral correlation of speckle images. Applied Optics, 2020, 59, 5041.	0.9	2
178	<title>Novel techniques for the detection of eigen axes and precise angular alignment of highly birefringent (HiBi) fibers using shear interferometry</title>. , 1998, , .		1
179	All-fiber optic endoscope probe distal end for disease diagnosis in body cavities. , 2005, , .		1
180	IN-PROCESS MONITORING OF FEMTOSECOND LASER MATERIAL PROCESSING. International Journal of Nanoscience, 2005, 04, 761-766.	0.4	1

#	ARTICLE	IF	CITATIONS
181	A Total-Concentration Fixed-Grid Method for Two-Dimensional Diffusion-Controlled Wet Chemical Etching. , 2005, , 113.		1
182	An integrated phase-resolved fluorescence imaging system with sub-nanosecond lifetime resolution. Optics and Laser Technology, 2007, 39, 864-870.	2.2	1
183	Taper couplers for coupling between laser and silicon waveguide with large allowable tolerance. , 2008, , .		1
184	Of light, of MEMS: Optical MEMS in telecommunications and beyond. Sadhana - Academy Proceedings in Engineering Sciences, 2009, 34, 599-606.	0.8	1
185	Laser-induced photoacoustic spectroscopy investigation of colon phantom tissue. Applied Physics A: Materials Science and Processing, 2010, 101, 567-571.	1.1	1
186	Maskless plasmonic lithography for patterning of one- and two-dimensional periodic features. Proceedings of SPIE, 2010, , .	0.8	1
187	Thermal diffusivity variations in nanoparticle administered phantom tissues â€“ a photoacoustic investigation. EPJ Applied Physics, 2012, 59, 30501.	0.3	1
188	Near-field assisted nanoscale patterning for improved absorption in thin film silicon solar cell. Proceedings of SPIE, 2014, , .	0.8	1
189	Synthetically generated fiber pixilated image database. Proceedings of SPIE, 2014, , .	0.8	1
190	Narrow band wavelength selective filter using grating assisted single ring resonator. Review of Scientific Instruments, 2014, 85, 093111.	0.6	1
191	Variable resolution imaging fiber probe using digital spatial light modulator. , 2015, , .		1
192	A flexible image fiber probe based speckle imaging for extraction of surface features with possible application in intra-cavity inspection. Proceedings of SPIE, 2015, , .	0.8	1
193	Non-contact high resolution Bessel beam probe for diagnostic imaging of cornea and trabecular meshwork region in eye. , 2015, , .		1
194	Photoreduction of graphene oxides using a femtosecond laser: Photothermal and photochemical contributions. , 2017, , .		1
195	Effect of Composition, Dimension and Shape on the Optical Properties of Gold Nanoparticlesâ€”A Theoretical Analysis. Advanced Science, Engineering and Medicine, 2011, 3, 188-196.	0.3	1
196	<title>Toward realization of a smart polarimetric sensor</title>. , 1999, , .		1
197	Experimental investigations and parametric studies of surface roughness measurements using spectrally correlated speckle images. , 2017, , .		1
198	Plasmonic Nano-urchins as Efficient Scatterers: A Comparative Study Using Electromagnetic Simulation. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
199	Probe-based hyperspectral imager for crop monitoring. , 2020, , .		1
200	High-resolution, non-contact, cellular level imaging of the cornea of the eye in vivo. Optics and Laser Technology, 2022, 150, 107922.	2.2	1
201	Tele-shearography for nondestructive evaluation (NDE) of aircraft/composite panels: an analysis. , 2001, , .		0
202	Use of Matlab filtering techniques in digital speckle pattern interferometry. , 2001, 4596, 297.		0
203	LONG-PULSE LASER-ASSISTED SURFACE MODIFICATION OF AN IMAGING FIBER FOR FABRICATION OF INTEGRATED FIBER MICROLENSSES. Surface Review and Letters, 2004, 11, 259-264.	0.5	0
204	A flexible endoscope system for dual-mode intracavity investigations. , 2005, , .		0
205	<title>Use of fluorescence lifetime imaging (FLIM) for latent fingerprints detection</title>. , 2005, , .		0
206	Phase-resolved fluorescence technique with heterodyne signal processing for imaging of latent fingerprints. Journal of Modern Optics, 2006, 53, 1809-1817.	0.6	0
207	A numerical model for etching through a circular hole. Journal of Physics: Conference Series, 2006, 34, 417-422.	0.3	0
208	Sensitivity improvement for phase-resolved fingerprint imaging using even-step ĩ€-shift methods. Measurement Science and Technology, 2006, 17, 684-688.	1.4	0
209	Innovative design of a tunable laser using liquid crystal tuning elements. Journal of Modern Optics, 2007, 54, 2735-2745.	0.6	0
210	A fluorescence lifetime imaging microscopy (FLIM) system for the characterization of haematoxylin and eosin stained sample. Proceedings of SPIE, 2008, , .	0.8	0
211	Fiber Optics in Mechatronics â€œ New Challenges and Trends. International Journal of Optomechatronics, 2008, 2, 1-3.	3.3	0
212	Improvement in fluorescence confocal microscopy for obtaining better depth perception. , 2008, , .		0
213	Quasi-Confocal Frequency Domain Imaging for Improved Depth Perception and Selective Suppression of Fluorescent Emissions. International Journal of Optomechatronics, 2008, 2, 42-60.	3.3	0
214	Fabrication of polymer-based reflowed microlenses on optical fibre with control of focal length using differential coating technique. Sadhana - Academy Proceedings in Engineering Sciences, 2009, 34, 607-613.	0.8	0
215	Finite-difference time-domain analysis of bandgap characteristics of transversely probed hollow-core photonic crystal fibers. , 2010, , .		0
216	Optofluidic variable optical attenuator. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
217	Variable focal lengths image fiber based microscope system for biomedical application. , 2010, , .		0
218	Numerical study on Transverse Optical Trapping Inside Hollowcore PCF. Physics Procedia, 2011, 19, 361-366.	1.2	0
219	Characterization of doped polymer based layered thin films for metamaterial applications. Physics Procedia, 2011, 19, 391-397.	1.2	0
220	Nanoring patterning using surface plasmon assisted photolithography. Proceedings of SPIE, 2011, , .	0.8	0
221	Calculation of optical properties of nanoparticles for biomedical applications. Proceedings of SPIE, 2011, , .	0.8	0
222	Laser Speckle Contouring for Medical Diagnosis of Abnormal Growth. Journal of Medical Imaging and Health Informatics, 2011, 1, 27-32.	0.2	0
223	Rectilinear Electrothermal Actuator Using High-Aspect-Ratio Micromachined Composite of SU-8 and Silicon. Advances in Science and Technology, 0, , .	0.2	0
224	Plasmon coupled 2D random medium for enhanced absorption in solar cells. , 2015, , .		0
225	Dual-illumination mode, wide-field probe imaging scheme for imaging irido-corneal angle region inside eye. , 2015, , .		0
226	In-vivo high resolution corneal imaging and analysis on animal models for clinical applications. Proceedings of SPIE, 2015, , .	0.8	0
227	Design and simulation of GRIN objective lenses for an imaging fiber based speckle metrology system. , 2016, , .		0
228	Preclinical imaging of iridocorneal angle and fundus using a modified integrated flexible handheld probe. Journal of Medical Imaging, 2017, 4, 026001.	0.8	0
229	Microscopy using randomized speckle illumination. , 2017, , .		0
230	Spatial calibration and image processing requirements of an image fiber bundle based snapshot hyperspectral imaging probe: from raw data to datacube. Proceedings of SPIE, 2017, , .	0.8	0
231	DMD based digital speckle illumination for high resolution imaging. , 2017, , .		0
232	A review of interferometric techniques with possible improvement in pattern resolution using near-field patterning. Proceedings of SPIE, 2017, , .	0.8	0
233	Snapshot hyperspectral imaging probe with principal component analysis and confidence ellipse for classification. Proceedings of SPIE, 2017, , .	0.8	0
234	Peptides functionalized carbon dots for in vitro fluorescent imaging of amyloid fibrils. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
235	Graphene-based ultrathin optical components printed by femtosecond laser direct writing method. , 2017, , .		0
236	Bessel-Gauss Beam Light Sheet Assisted Fluorescence Imaging of Trabecular Meshwork in the Iridocorneal Region Using Long Working Distance Objectives. , 2019, , .		0
237	Amyloid Beta42 (A $\beta$ 42) Peptide Functionalized Iron Oxide Nanoparticles for Specific Targeting of SH-SY5Y Neuroblastoma Cells. Journal of Nanoscience and Nanotechnology, 2021, 21, 5044-5050.	0.9	0
238	Non-contact high resolution Bessel beam probe for diagnostic imaging of cornea and trabecular meshwork region in eye. , 2015, , .		0
239	A fractal image analysis methodology for heat damage inspection in carbon fiber reinforced composites. , 2017, , .		0
240	Imaging objects behind small obstacles using axicon lens. , 2017, , .		0
241	Contact lens assisted imaging with integrated flexible handheld probe for glaucoma diagnosis. , 2017, , .		0
242	Geometric approach to the design of an imaging probe to evaluate the iridocorneal angle structures. , 2017, , .		0
243	Multi-beam interferometric patterning in optically transparent materials. Proceedings of SPIE, 2017, , .	0.8	0
244	Fiber optic probe for region of interest (ROI) selective time averaged multi-fluorescence imaging. , 2017, , .		0
245	Indirect gonioscopy system for imaging iridocorneal angle of eye. , 2017, , .		0
246	Flexible and stretchable micro GO/rGO optical structures by femtosecond laser photoreduction. , 2018, , .		0
247	Structured illumination fiber probe for high-resolution surface feature imaging of 3D printed and composite samples. , 2019, , .		0
248	Non-contact, Artefact-free Corneal Imaging using Random Laser. , 2021, , .		0
249	Wide-field microscopic structural imaging of biological tissues using random laser. , 2021, , .		0