

# Martin Rudolf Hofmann

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

1,121  
citations

394421

19  
h-index

395702

33  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1131  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-resolution in vivo imaging of peripheral nerves using optical coherence tomography: a feasibility study. <i>Journal of Neurosurgery</i> , 2020, 132, 1907-1913.	1.6	11
2	Contrast Enhancement for Topographic Imaging in Confocal Laser Scanning Microscopy. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3086.	2.5	3
3	Digital holographic microscopy for sub- $\mu\text{m}$ scale high aspect ratio structures in transparent materials. <i>Optics and Lasers in Engineering</i> , 2019, 121, 441-447.	3.8	7
4	Ultrafast spin-lasers. <i>Nature</i> , 2019, 568, 212-215.	27.8	134
5	Luminescent $\text{Nd}^{2+}\text{S}^{3+}$ thin films: a new chemical vapour deposition route towards rare-earth sulphides. <i>Dalton Transactions</i> , 2019, 48, 2926-2938.	3.3	7
6	Vertical-cavity surface-emitting laser with integrated surface grating for high birefringence splitting. <i>Electronics Letters</i> , 2019, 55, 1055-1057.	1.0	18
7	Backside imaging of a microcontroller with common-path digital holography. , 2017, , .		0
8	Lensless digital holographic microscope using in-line configuration and laser diode illumination. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0
9	Monolithic vertical-cavity surface-emitting laser with thermally tunable birefringence. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	21
10	Multimodal backside imaging of a microcontroller using confocal laser scanning and optical-beam-induced current imaging. , 2017, , .		0
11	Depth-filtering in common-path digital holographic microscopy. <i>Optics Express</i> , 2017, 25, 19398.	3.4	20
12	Spectral Domain Optical Coherence Tomography for Non-Destructive Testing of Protection Coatings on Metal Substrates. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 364.	2.5	14
13	Applications for Optical Components in THz Systems (invited paper). , 2017, , .		2
14	Large laser spots and fault sensitivity analysis. , 2016, , .		22
15	On the Complexity Reduction of Laser Fault Injection Campaigns Using OBIC Measurements. , 2015, , .		13
16	Vertical-cavity surface-emitting lasers with birefringence splitting above 250 GHz. <i>Electronics Letters</i> , 2015, 51, 1600-1602.	1.0	41
17	Axial scanning in confocal microscopy employing adaptive lenses (CAL). <i>Optics Express</i> , 2014, 22, 6025.	3.4	70
18	Multiwavelength phase unwrapping and aberration correction using depth filtered digital holography. <i>Optics Letters</i> , 2014, 39, 4160.	3.3	12

#	ARTICLE	IF	CITATIONS
19	Spin relaxation length in quantum dot spin LEDs. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013, 10, 1214-1217.	0.8	2
20	Comparison of different metrics for analysis and visualization in spectroscopic optical coherence tomography. <i>Biomedical Optics Express</i> , 2013, 4, 2945.	2.9	22
21	Depth-filtered digital holography. <i>Optics Express</i> , 2012, 20, 22636.	3.4	16
22	Magnetic field dependence of the spin relaxation length in spin light-emitting diodes. <i>Applied Physics Letters</i> , 2012, 101, 112402.	3.3	10
23	Ultrafast spin-induced polarization oscillations with tunable lifetime in vertical-cavity surface-emitting lasers. <i>Applied Physics Letters</i> , 2011, 99, 151107.	3.3	86
24	Photorefractive two-wave mixing for image amplification in digital holography. <i>Optics Express</i> , 2011, 19, 22004.	3.4	44
25	Design and simulation of electrically pumped mode-locked VECSELs. <i>Proceedings of SPIE</i> , 2011, , .	0.8	2
26	Semiconductor Diode Lasers for Terahertz Technology. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2011, 32, 1253-1266.	2.2	10
27	Electrical spin injection in InAs quantum dots at room temperature and adjustment of the emission wavelength for spintronic applications. <i>Journal of Crystal Growth</i> , 2011, 323, 376-379.	1.5	11
28	Enhanced photoelectrochemical properties of WO <sub>3</sub> thin films fabricated by reactive magnetron sputtering. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 4724-4731.	7.1	82
29	Fastly tunable external-cavity diode-lasers controlled by electro-absorption modulators. , 2011, , .		1
30	Substance identification by depth resolved spectroscopic pattern reconstruction in frequency domain optical coherence tomography. <i>Optics Communications</i> , 2010, 283, 4816-4822.	2.1	17
31	Birefringence controlled room-temperature picosecond spin dynamics close to the threshold of vertical-cavity surface-emitting laser devices. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	50
32	Experimental evaluation of photoacoustic coded excitation using unipolar golay codes. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010, 57, 1583-1593.	3.0	34
33	Multispectral photoacoustic coded excitation imaging using unipolar orthogonal Golay codes. <i>Optics Express</i> , 2010, 18, 9076.	3.4	54
34	Compact diode-laser-based system for continuous-wave and quasi-time-domain terahertz spectroscopy. <i>Optics Letters</i> , 2010, 35, 3859.	3.3	24
35	Integrity of Micro-Hotplates During High-Temperature Operation Monitored by Digital Holographic Microscopy. <i>Journal of Microelectromechanical Systems</i> , 2010, 19, 1175-1179.	2.5	14
36	Single-shot holography for depth resolved three dimensional imaging. <i>Optics Express</i> , 2009, 17, 21015.	3.4	8

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37	Nanosecond Switching and Wavelength Tuning of External-Cavity Laser Diode Using a Reflective Electroabsorption Modulator. IEEE Photonics Technology Letters, 2009, 21, 1347-1349.	2.5	2
38	Electrical detection of photoinduced spins both at room temperature and in remanence. Applied Physics Letters, 2008, 92, .	3.3	43
39	External-cavity diode laser utilizing a micromirror device for spectral tuning. , 2007, , .		0
40	Vertical pin-modulator for controlling an external-cavity diode laser. , 2007, , .		0
41	Room temperature terahertz generation with semiconductor lasers. , 2006, , .		0
42	Title is missing!. Superlattices and Microstructures, 2005, 37, 305.	3.1	0
43	Spin controlled optically pumped vertical cavity surface emitting laser. Electronics Letters, 2005, 41, 251.	1.0	39
44	Experimental analysis of the optical gain and linewidth enhancement factor of GaInNAs/GaAs lasers. Journal of Physics Condensed Matter, 2004, 16, S3095-S3106.	1.8	1
45	Linewidth enhancement factor and optical gain in (GaIn)(NAs)/GaAs lasers. Applied Physics Letters, 2004, 84, 1-3.	3.3	54
46	Dynamics of two-color laser systems with spectrally filtered feedback. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 1758.	2.1	30
47	Emission dynamics and optical gain of 1.3- $\mu$ m (GaIn)(NAs)/GaAs lasers. IEEE Journal of Quantum Electronics, 2002, 38, 213-221.	1.9	42
48	Portable fluorescence photometer for monitoring free calcium. Review of Scientific Instruments, 2000, 71, 4531.	1.3	1
49	Subpicosecond heterodyne four-wave mixing experiments on InGaAsP semiconductor laser amplifiers. Optics Communications, 1997, 139, 117-124.	2.1	6
50	Effect of Ionic Substitution on the Thermal Expansion of ZrTiO <sub>4</sub> . Journal of the American Ceramic Society, 1991, 74, 2205-2208.	3.8	21