

Martin Rudolf Hofmann

List of Publications by Year in descending order

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50
papers

1,121
citations

393982

19
h-index

395343

33
g-index

51
all docs

51
docs citations

51
times ranked

1131
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast spin-lasers. Nature, 2019, 568, 212-215.	13.7	134
2	Ultrafast spin-induced polarization oscillations with tunable lifetime in vertical-cavity surface-emitting lasers. Applied Physics Letters, 2011, 99, 151107.	1.5	86
3	Enhanced photoelectrochemical properties of WO ₃ thin films fabricated by reactive magnetron sputtering. International Journal of Hydrogen Energy, 2011, 36, 4724-4731.	3.8	82
4	Axial scanning in confocal microscopy employing adaptive lenses (CAL). Optics Express, 2014, 22, 6025.	1.7	70
5	Linewidth enhancement factor and optical gain in (GaIn)(NAs)/GaAs lasers. Applied Physics Letters, 2004, 84, 1-3.	1.5	54
6	Multispectral photoacoustic coded excitation imaging using unipolar orthogonal Golay codes. Optics Express, 2010, 18, 9076.	1.7	54
7	Birefringence controlled room-temperature picosecond spin dynamics close to the threshold of vertical-cavity surface-emitting laser devices. Applied Physics Letters, 2010, 97, .	1.5	50
8	Photorefractive two-wave mixing for image amplification in digital holography. Optics Express, 2011, 19, 22004.	1.7	44
9	Electrical detection of photoinduced spins both at room temperature and in remanence. Applied Physics Letters, 2008, 92, .	1.5	43
10	Emission dynamics and optical gain of 1.3- μ m (GaIn)(NAs)/GaAs lasers. IEEE Journal of Quantum Electronics, 2002, 38, 213-221.	1.0	42
11	Vertical-cavity surface-emitting lasers with birefringence splitting above 250 GHz. Electronics Letters, 2015, 51, 1600-1602.	0.5	41
12	Spin controlled optically pumped vertical cavity surface emitting laser. Electronics Letters, 2005, 41, 251.	0.5	39
13	Experimental evaluation of photoacoustic coded excitation using unipolar golay codes. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 1583-1593.	1.7	34
14	Dynamics of two-color laser systems with spectrally filtered feedback. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 1758.	0.9	30
15	Compact diode-laser-based system for continuous-wave and quasi-time-domain terahertz spectroscopy. Optics Letters, 2010, 35, 3859.	1.7	24
16	Comparison of different metrics for analysis and visualization in spectroscopic optical coherence tomography. Biomedical Optics Express, 2013, 4, 2945.	1.5	22
17	Large laser spots and fault sensitivity analysis. , 2016, , .		22
18	Effect of Ionic Substitution on the Thermal Expansion of ZrTiO ₄ . Journal of the American Ceramic Society, 1991, 74, 2205-2208.	1.9	21

#	ARTICLE	IF	CITATIONS
19	Monolithic vertical-cavity surface-emitting laser with thermally tunable birefringence. Applied Physics Letters, 2017, 110, .	1.5	21
20	Depth-filtering in common-path digital holographic microscopy. Optics Express, 2017, 25, 19398.	1.7	20
21	Vertical-cavity surface-emitting laser with integrated surface grating for high birefringence splitting. Electronics Letters, 2019, 55, 1055-1057.	0.5	18
22	Substance identification by depth resolved spectroscopic pattern reconstruction in frequency domain optical coherence tomography. Optics Communications, 2010, 283, 4816-4822.	1.0	17
23	Depth-filtered digital holography. Optics Express, 2012, 20, 22636.	1.7	16
24	Integrity of Micro-Hotplates During High-Temperature Operation Monitored by Digital Holographic Microscopy. Journal of Microelectromechanical Systems, 2010, 19, 1175-1179.	1.7	14
25	Spectral Domain Optical Coherence Tomography for Non-Destructive Testing of Protection Coatings on Metal Substrates. Applied Sciences (Switzerland), 2017, 7, 364.	1.3	14
26	On the Complexity Reduction of Laser Fault Injection Campaigns Using OBIC Measurements. , 2015, , .		13
27	Multiwavelength phase unwrapping and aberration correction using depth filtered digital holography. Optics Letters, 2014, 39, 4160.	1.7	12
28	Electrical spin injection in InAs quantum dots at room temperature and adjustment of the emission wavelength for spintronic applications. Journal of Crystal Growth, 2011, 323, 376-379.	0.7	11
29	High-resolution in vivo imaging of peripheral nerves using optical coherence tomography: a feasibility study. Journal of Neurosurgery, 2020, 132, 1907-1913.	0.9	11
30	Semiconductor Diode Lasers for Terahertz Technology. Journal of Infrared, Millimeter, and Terahertz Waves, 2011, 32, 1253-1266.	1.2	10
31	Magnetic field dependence of the spin relaxation length in spin light-emitting diodes. Applied Physics Letters, 2012, 101, 112402.	1.5	10
32	Single-shot holography for depth resolved three dimensional imaging. Optics Express, 2009, 17, 21015.	1.7	8
33	Digital holographic microscopy for sub-µm scale high aspect ratio structures in transparent materials. Optics and Lasers in Engineering, 2019, 121, 441-447.	2.0	7
34	Luminescent Nd ₂ S ₃ thin films: a new chemical vapour deposition route towards rare-earth sulphides. Dalton Transactions, 2019, 48, 2926-2938.	1.6	7
35	Subpicosecond heterodyne four-wave mixing experiments on InGaAsP semiconductor laser amplifiers. Optics Communications, 1997, 139, 117-124.	1.0	6
36	Contrast Enhancement for Topographic Imaging in Confocal Laser Scanning Microscopy. Applied Sciences (Switzerland), 2019, 9, 3086.	1.3	3

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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.	1.3	2
38	Design and simulation of electrically pumped mode-locked VECSELS. Proceedings of SPIE, 2011, , .	0.8	2
39	Spin relaxation length in quantum dot spin LEDs. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 1214-1217.	0.8	2
40	Applications for Optical Components in THz Systems (invited paper). , 2017, , .		2
41	Portable fluorescence photometer for monitoring free calcium. Review of Scientific Instruments, 2000, 71, 4531.	0.6	1
42	Experimental analysis of the optical gain and linewidth enhancement factor of GaInNAs/GaAs lasers. Journal of Physics Condensed Matter, 2004, 16, S3095-S3106.	0.7	1
43	Fastly tunable external-cavity diode-lasers controlled by electro-absorption modulators. , 2011, , .		1
44	Title is missing!. Superlattices and Microstructures, 2005, 37, 305.	1.4	0
45	Room temperature terahertz generation with semiconductor lasers. , 2006, , .		0
46	External-cavity diode laser utilizing a micromirror device for spectral tuning. , 2007, , .		0
47	Vertical pin-modulator for controlling an external-cavity diode laser. , 2007, , .		0
48	Backside imaging of a microcontroller with common-path digital holography. , 2017, , .		0
49	Lensless digital holographic microscope using in-line configuration and laser diode illumination. Proceedings of SPIE, 2017, , .	0.8	0
50	Multimodal backside imaging of a microcontroller using confocal laser scanning and optical-beam-induced current imaging. , 2017, , .		0