

# Martin Maiwald

## List of Publications by Year in descending order

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42  
papers

546  
citations

567281

15  
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677142

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	600 mW optical output power at 488 nm by use of a high-power hybrid laser diode system and a periodically poled MgO:LiNbO <sub>3</sub> bulk crystal. <i>Optics Letters</i> , 2006, 31, 802.	3.3	48
2	Comparison of two concepts for dual-wavelength DBR ridge waveguide diode lasers at 785 nm suitable for shifted excitation Raman difference spectroscopy. <i>Applied Physics B: Lasers and Optics</i> , 2015, 120, 261-269.	2.2	42
3	Dual-Wavelength Y-Branch Distributed Bragg Reflector Diode Laser at 785 Nanometers for Shifted Excitation Raman Difference Spectroscopy. <i>Applied Spectroscopy</i> , 2014, 68, 838-843.	2.2	36
4	Microsystem 671 nm light source for shifted excitation Raman difference spectroscopy. <i>Applied Optics</i> , 2009, 48, 2789.	2.1	32
5	Second-harmonic-generation microsystem light source at 488 nm for Raman spectroscopy. <i>Optics Letters</i> , 2009, 34, 217.	3.3	28
6	Dual-wavelength diode laser with electrically adjustable wavelength distance at 785 nm. <i>Optics Letters</i> , 2016, 41, 3694.	3.3	28
7	Microsystem Light Source at 488 nm for Shifted Excitation Resonance Raman Difference Spectroscopy. <i>Applied Spectroscopy</i> , 2009, 63, 1283-1287.	2.2	27
8	A portable shifted excitation Raman difference spectroscopy system: device and field demonstration. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 1180-1184.	2.5	25
9	Dual-wavelength monolithic Y-branch distributed Bragg reflection diode laser at 671 nm suitable for shifted excitation Raman difference spectroscopy. <i>Laser and Photonics Reviews</i> , 2013, 7, L30-L33.	8.7	22
10	Capability of shifted excitation Raman difference spectroscopy under ambient daylight. <i>Applied Optics</i> , 2015, 54, 5520.	2.1	22
11	Accurate <i>in vivo</i> tumor detection using plasmonic-enhanced shifted-excitation Raman difference spectroscopy (SERDS). <i>Theranostics</i> , 2021, 11, 4090-4102.	10.0	20
12	Rapid and adjustable shifted excitation Raman difference spectroscopy using a dual-wavelength diode laser at 785 nm. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 1765-1775.	2.5	19
13	Shifted excitation Raman difference spectroscopy: A promising tool for the investigation of soil. <i>European Journal of Soil Science</i> , 2021, 72, 120-124.	3.9	19
14	Wavelength stabilized 785 nm DBR-ridge waveguide lasers with an output power of up to 215 mW. <i>Semiconductor Science and Technology</i> , 2014, 29, 045025.	2.0	18
15	Wavelength-Stabilized Compact Diode Laser System on a Microoptical Bench With 1.5-W Optical Output Power at 671 nm. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 1627-1629.	2.5	17
16	5.6-W Broad-Area Lasers With a Vertical Far-Field Angle of $31^\circ$ Emitting at 670 nm. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 575-577.	2.5	16
17	Compact Handheld Probe for Shifted Excitation Raman Difference Spectroscopy with Implemented Dual-Wavelength Diode Laser at 785 Nanometers. <i>Applied Spectroscopy</i> , 2015, 69, 1144-1151.	2.2	12
18	Determination of Soil Constituents Using Shifted Excitation Raman Difference Spectroscopy. <i>Applied Spectroscopy</i> , 2022, , 000370282110649.	2.2	11

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19	Portable shifted excitation Raman difference spectroscopy for on-site soil analysis. Journal of Raman Spectroscopy, 2022, 53, 1560-1570.	2.5	11
20	Design and Realization of a Miniaturized DFB Diode Laser-Based SHG Light Source With a 2-nm Tunable Emission at 488 nm. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2017, 7, 720-725.	2.5	9
21	Shifted excitation resonance Raman difference spectroscopy system suitable for the quantitative in vivo detection of carotenoids in human skin. Laser Physics Letters, 2018, 15, 115601.	1.4	9
22	Shifted excitation Raman difference spectroscopy for the detection of SERS-encoded gold nanostar probes. Journal of Raman Spectroscopy, 2018, 49, 1961-1967.	2.5	8
23	Shifted Excitation Raman Difference Spectroscopy with Charge-Shifting Charge-Coupled Device (CCD) Lock-In Detection. Applied Spectroscopy, 2019, 73, 000370281985935.	2.2	8
24	Wide Field Spectral Imaging with Shifted Excitation Raman Difference Spectroscopy Using the Nod and Shuffle Technique. Sensors, 2020, 20, 6723.	3.8	8
25	783 nm wavelength stabilized DBR tapered diode lasers with a 7 W output power. Applied Optics, 2021, 60, 5418.	1.8	8
26	Shifted excitation Raman difference spectroscopy as enabling technique for the analysis of animal feedstuff. Journal of Raman Spectroscopy, 2021, 52, 1418-1427.	2.5	7
27	Miniaturized diode laser-based light sources for in-situ shifted excitation Raman difference spectroscopy. , 2013, , .		6
28	Dual-Wavelength Master Oscillator Power Amplifier Diode-Laser System at 785 nm. IEEE Photonics Technology Letters, 2014, 26, 1120-1123.	2.5	6
29	Direct SERDS sensing of molecular biomarkers in plants under field conditions. Analytical and Bioanalytical Chemistry, 2020, 412, 3457-3466.	3.7	6
30	Compact Diode Laser-Based Dual-Wavelength Master Oscillator Power Amplifier at 785 nm. IEEE Photonics Technology Letters, 2019, 31, 1120-1123.	2.5	5
31	Detection of calcium phosphate species in soil by confocal Raman spectroscopy. Journal of Plant Nutrition and Soil Science, 2022, 185, 221-231.	1.9	5
32	Tailored diode lasers: enabling Raman spectroscopy in the presence of disturbing fluorescence and background light. , 2019, , .		2
33	Electrically wavelength adjustable DBR laser for background-free Raman spectroscopy at 785 nm. , 2022, , .		2
34	5,000 h reliable operation of 785nm dual-wavelength DBR-RW diode lasers suitable for Raman spectroscopy and SERDS. Proceedings of SPIE, 2016, , .	0.8	1
35	Tunable Y-branch dual-wavelength diode lasers in the VIS and NIR range for sensor applications. , 2019, , .		1
36	Diode laser based light sources for shifted excitation resonance Raman difference spectroscopy in the spectral range between 450 nm and 532 nm. , 2022, , .		1

#	ARTICLE	IF	CITATIONS
37	Comparison of individual and common wavelength-operation for 785-nm Y-branch DBR ridge waveguide diode lasers with adjustable spectral distance. Applied Optics, 2022, 61, 5419.	1.8	1
38	785-nm dual wavelength DBR diode lasers and MOPA systems with output powers up to 750 mW. Proceedings of SPIE, 2015, , .	0.8	0
39	Shifted excitation Raman difference spectroscopy: from diode lasers to in situ applications. , 2018, , .		0
40	Portable Shifted Excitation Raman Difference Spectroscopy - From Laboratory Investigations to in-situ Agri-Photonics. , 2020, , .		0
41	Narrow-band multiple-wavelengths DBR-ridge waveguide diode lasers customized for sensor applications. , 2020, , .		0
42	On-site shifted excitation Raman difference spectroscopy for soil investigations. , 2022, , .		0