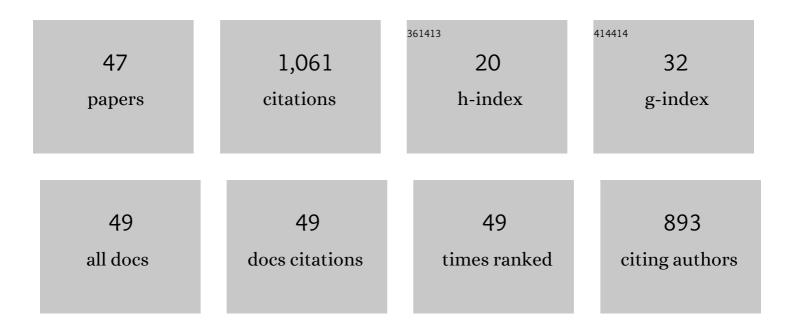
Markus Brandstetter

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Quantum cascade lasers (QCLs) in biomedical spectroscopy. Chemical Society Reviews, 2017, 46, 5903-5924. | 38.1 | 133 |
| 2 | External-Cavity Quantum Cascade Laser Spectroscopy for Mid-IR Transmission Measurements of Proteins in Aqueous Solution. Analytical Chemistry, 2015, 87, 6980-6987. | 6.5 | 80 |
| 3 | Direct determination of glucose, lactate and triglycerides in blood serum by a tunable quantum cascade laser-based mid-IR sensor. Applied Physics B: Lasers and Optics, 2013, 110, 233-239. | 2.2 | 73 |
| 4 | Tunable external cavity quantum cascade laser for the simultaneous determination of glucose and lactate in aqueous phase. Analyst, The, 2010, 135, 3260. | 3.5 | 60 |
| 5 | Reagent-free monitoring of multiple clinically relevant parameters in human blood plasma using a mid-infrared quantum cascade laser based sensor system. Analyst, The, 2013, 138, 4022. | 3.5 | 53 |
| 6 | Diffraction limited mid-infrared reflectance microspectroscopy with a supercontinuum laser. Optics Express, 2018, 26, 30644. | 3.4 | 42 |
| 7 | Tunable mid-infrared lasers in physical chemosensors towards the detection of physiologically relevant parameters in biofluids. Sensors and Actuators B: Chemical, 2012, 170, 189-195. | 7.8 | 40 |
| 8 | Quartz-enhanced photoacoustic spectroscopy-based sensor system for sulfur dioxide detection using a CW DFB-QCL. Applied Physics B: Lasers and Optics, 2014, 117, 113-120. | 2.2 | 39 |
| 9 | Mid-Infrared Standoff Spectroscopy Using a Supercontinuum Laser with Compact Fabry–Pérot Filter Spectrometers. Applied Spectroscopy, 2018, 72, 634-642. | 2.2 | 38 |
| 10 | Advances in mid-infrared spectroscopy enabled by supercontinuum laser sources. Optics Express, 2022, 30, 5222. | 3.4 | 36 |
| 11 | Sensitivity-Enhanced Fourier Transform Mid-Infrared Spectroscopy Using a Supercontinuum Laser Source. Applied Spectroscopy, 2020, 74, 485-493. | 2.2 | 35 |
| 12 | Mid-infrared Fourier-domain optical coherence tomography with a pyroelectric linear array. Optics Express, 2018, 26, 33428. | 3.4 | 35 |
| 13 | Nonlinear model predictive control for a heating and cooling system of a low-energy office building. Energy and Buildings, 2016, 125, 86-98. | 6.7 | 34 |
| 14 | Enhanced mid-infrared multi-bounce ATR spectroscopy for online detection of hydrogen peroxide using a supercontinuum laser. Optics Express, 2018, 26, 12169. | 3.4 | 33 |
| 15 | Ultrasound-Enhanced Attenuated Total Reflection Mid-infrared Spectroscopy In-Line Probe: Acquisition of Cell Spectra in a Bioreactor. Analytical Chemistry, 2015, 87, 2314-2320. | 6.5 | 32 |
| 16 | Broadband near-infrared hyperspectral single pixel imaging for chemical characterization. Optics Express, 2019, 27, 12666. | 3.4 | 25 |
| 17 | High performance liquid chromatography with mid-infrared detection based on a broadly tunable quantum cascade laser. Analyst, The, 2014, 139, 2057. | 3.5 | 24 |
| 18 | Remote mid-infrared photoacoustic spectroscopy with a quantum cascade laser. Optics Letters, 2015, 40. 3476. | 3.3 | 23 |

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|----|---|-----|-----------|
| 19 | Calibration model maintenance in melamine resin production: Integrating drift detection, smart sample selection and model adaptation. Analytica Chimica Acta, 2018, 1013, 1-12. | 5.4 | 23 |
| 20 | Observation of particles manipulated by ultrasound in close proximity to a cone-shaped infrared spectroscopy probe. Ultrasonics, 2010, 50, 240-246. | 3.9 | 20 |
| 21 | Time-resolved spectral characterization of ring cavity surface emitting and ridge-type distributed feedback quantum cascade lasers by step-scan FT-IR spectroscopy. Optics Express, 2014, 22, 2656. | 3.4 | 20 |
| 22 | Sub-second quantum cascade laser based infrared spectroscopic ellipsometry. Optics Letters, 2019, 44, 3426. | 3.3 | 19 |
| 23 | Dual-band infrared optical coherence tomography using a single supercontinuum source. Optics Express, 2020, 28, 7858. | 3.4 | 19 |
| 24 | Probeless non-invasive near-infrared spectroscopic bioprocess monitoring using microspectrometer technology. Analytical and Bioanalytical Chemistry, 2020, 412, 2103-2109. | 3.7 | 18 |
| 25 | Correlative infrared optical coherence tomography and hyperspectral chemical imaging. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, B19. | 1.5 | 15 |
| 26 | Workflow for multi-analyte bioprocess monitoring demonstrated on inline NIR spectroscopy of P. chrysogenum fermentation. Analytical and Bioanalytical Chemistry, 2017, 409, 797-805. | 3.7 | 12 |
| 27 | Towards Real-Time In-Situ Mid-Infrared Spectroscopic Ellipsometry in Polymer Processing. Polymers, 2022, 14, 7. | 4.5 | 11 |
| 28 | Ultrasonic Manipulation of Yeast Cells in Suspension for Absorption Spectroscopy with an Immersible Mid-Infrared Fiberoptic Probe. Ultrasound in Medicine and Biology, 2013, 39, 1094-1101. | 1.5 | 10 |
| 29 | Improved quantification of important beer quality parameters based on nonlinear calibration methods applied to FT-MIR spectra. Analytical and Bioanalytical Chemistry, 2017, 409, 841-857. | 3.7 | 10 |
| 30 | Tunable Mid-IR lasers: A new avenue to robust and versatile physical chemosensors. Procedia Engineering, 2010, 5, 1001-1004. | 1.2 | 7 |
| 31 | Spectral-Coding-Based Compressive Single-Pixel NIR Spectroscopy in the Sub-Millisecond Regime. Sensors, 2021, 21, 5563. | 3.8 | 7 |
| 32 | Mid-infrared DMD-based spectral-coding spectroscopy with a supercontinuum laser source. Optics Express, 2022, 30, 6440. | 3.4 | 7 |
| 33 | Enhanced mid-infrared multi-bounce ATR spectroscopy for online detection of hydrogen peroxide using a supercontinuum laser. Optics Express, 2018, 26, 12169-12179. | 3.4 | 7 |
| 34 | Inline biofilm monitoring based on near-infrared spectroscopy with ultracompact spectrometer technology. NIR News, 2020, 31, 9-13. | 0.3 | 5 |
| 35 | QCL-based mid-infrared hyperspectral imaging of multilayer polymer oxygen barrier-films. Polymer Testing, 2021, 98, 107190. | 4.8 | 3 |
| 36 | Application of supercontinuum radiation for mid-infrared spectroscopy. Proceedings of SPIE, 2016, , . | 0.8 | 2 |

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Additive Partial Least Squares for efficient modelling of independent variance sources demonstrated on practical case studies. Analytica Chimica Acta, 2018, 1007, 10-15. | 5.4 | 2 |
| 38 | Application of a Novel Low-Cost Hyperspectral Imaging Setup Operating in the Mid-Infrared Region. Proceedings (mdpi), 2018, 2, . | 0.2 | 2 |
| 39 | Extension of a Particle Filter for Bioprocess State Estimation using Invasive and Non-Invasive IR Measurements. Computer Aided Chemical Engineering, 2019, , 1417-1422. | 0.5 | 2 |
| 40 | Multimodal mid-infrared optical coherence tomography and spectroscopy for non-destructive testing and art diagnosis. , 2019, , . | | 2 |
| 41 | A broadband grating-coupled silicon nitride waveguide for the mid-IR: characterization and sensitive measurements using an external cavity quantum cascade laser. Applied Physics B: Lasers and Optics, 2014, 116, 325-332. | 2.2 | 1 |
| 42 | A Localized Analysis of the Sterilization Process by Direct Steam Monitoring. IEEE Access, 2017, 5, 19961-19970. | 4.2 | 1 |
| 43 | High-brightness supercontinuum sources: prospects for mid-infrared laser spectroscopy. , 2022, , . | | 1 |
| 44 | Mid-infrared rib waveguide absorption sensors based on Si. , 2013, , . | | 0 |
| 45 | Advances in Mid-Infrared Hyperspectral Imaging Enabled by Supercontinuum Lasers. , 2019, , . | | 0 |
| 46 | Supercontinuum sources for multimodal MIR-OCT imaging. , 2019, , . | | 0 |
| 47 | Industrial Application Examples of Miniature and Robust MEMS-based Spectrometers. , 2020, , . | | 0 |