

Bernhard Lendl

List of Publications by Citations

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316
papers

7,854
citations

43
h-index

72
g-index

356
ext. papers

8,901
ext. citations

5.1
avg. IF

6.23
L-index

#	Paper	IF	Citations
316	A New Method for Fast Preparation of Highly Surface-Enhanced Raman Scattering (SERS) Active Silver Colloids at Room Temperature by Reduction of Silver Nitrate with Hydroxylamine Hydrochloride. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 5723-5727	3.4	875
315	Multidimensional information on the chemical composition of single bacterial cells by confocal Raman microspectroscopy. <i>Analytical Chemistry</i> , 2000 , 72, 5529-34	7.8	223
314	Direct monitoring of lipid oxidation in edible oils by Fourier transform Raman spectroscopy. <i>Chemistry and Physics of Lipids</i> , 2005 , 134, 173-82	3.7	185
313	Rapid method for the discrimination of red wine cultivars based on mid-infrared spectroscopy of phenolic wine extracts. <i>Journal of Agricultural and Food Chemistry</i> , 2001 , 49, 1139-45	5.7	157
312	Probing intermolecular interactions in water/ionic liquid mixtures by far-infrared spectroscopy. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 4446-52	3.4	130
311	Two-dimensional correlation spectroscopy and multivariate curve resolution for the study of lipid oxidation in edible oils monitored by FTIR and FT-Raman spectroscopy. <i>Analytica Chimica Acta</i> , 2007 , 593, 54-67	6.6	129
310	Raman spectroscopy in chemical bioanalysis. <i>Current Opinion in Chemical Biology</i> , 2004 , 8, 534-9	9.7	127
309	Toward the optical tongue: flow-through sensing of tannin-protein interactions based on FTIR spectroscopy. <i>Journal of the American Chemical Society</i> , 2002 , 124, 14741-7	16.4	126
308	Association of methanol and water in ionic liquids elucidated by infrared spectroscopy using two-dimensional correlation and multivariate curve resolution. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 10896-902	3.4	121
307	Design, simulation and application of a new micromixing device for time resolved infrared spectroscopy of chemical reactions in solution. <i>Lab on A Chip</i> , 2001 , 1, 16-21	7.2	99
306	Direct, reagent-free determination of free fatty acid content in olive oil and olives by Fourier transform Raman spectrometry. <i>Analytica Chimica Acta</i> , 2003 , 487, 211-220	6.6	98
305	On-line fermentation monitoring by mid-infrared spectroscopy. <i>Applied Spectroscopy</i> , 2004 , 58, 804-10	3.1	96
304	Quantum cascade lasers (QCLs) in biomedical spectroscopy. <i>Chemical Society Reviews</i> , 2017 , 46, 5903-5938	38.5	88
303	Application of a combination of hard and soft modeling for equilibrium systems to the quantitative analysis of pH-modulated mixture samples. <i>Analytical Chemistry</i> , 2003 , 75, 641-7	7.8	84
302	On the Identification of Rayon/Viscose as a Major Fraction of Microplastics in the Marine Environment: Discrimination between Natural and Manmade Cellulosic Fibers Using Fourier Transform Infrared Spectroscopy. <i>Applied Spectroscopy</i> , 2017 , 71, 939-950	3.1	80
301	Compact quantum cascade laser based quartz-enhanced photoacoustic spectroscopy sensor system for detection of carbon disulfide. <i>Optics Express</i> , 2016 , 24, 6559-71	3.3	73
300	External-Cavity Quantum Cascade Laser Spectroscopy for Mid-IR Transmission Measurements of Proteins in Aqueous Solution. <i>Analytical Chemistry</i> , 2015 , 87, 6980-7	7.8	68

299	High-performance liquid chromatography with real-time Fourier-transform infrared detection for the determination of carbohydrates, alcohols and organic acids in wines. <i>Journal of Chromatography A</i> , 1998 , 824, 159-167	4.5	66
298	Determination of peroxide-based explosives using liquid chromatography with on-line infrared detection. <i>Analytical Chemistry</i> , 2006 , 78, 8150-5	7.8	66
297	Antibacterial effect of various shapes of silver nanoparticles monitored by SERS. <i>Talanta</i> , 2015 , 138, 183-189	6.2	64
296	Fabrication of miniaturized fluidic devices using SU-8 based lithography and low temperature wafer bonding. <i>Sensors and Actuators A: Physical</i> , 2004 , 115, 591-599	3.9	63
295	Direct determination of glucose, lactate and triglycerides in blood serum by a tunable quantum cascade laser-based mid-IR sensor. <i>Applied Physics B: Lasers and Optics</i> , 2013 , 110, 233-239	1.9	62
294	On-line monitoring of airborne chemistry in levitated nanodroplets: in situ synthesis and application of SERS-active Ag-Sols for trace analysis by FT-Raman spectroscopy. <i>Analytical Chemistry</i> , 2003 , 75, 2166-71	7.8	60
293	Ionic liquids and CE combination. <i>Electrophoresis</i> , 2008 , 29, 94-107	3.6	59
292	Quality assurance of qualitative analysis in the framework of the European project MEQUALAN Accreditation and Quality Assurance, 2003 , 8, 68-77	0.7	58
291	A highly uniform lamination micromixer with wedge shaped inlet channels for time resolved infrared spectroscopy. <i>Microfluidics and Nanofluidics</i> , 2011 , 10, 889-897	2.8	57
290	Stand-off Raman spectroscopy: a powerful technique for qualitative and quantitative analysis of inorganic and organic compounds including explosives. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 400, 2439-47	4.4	56
289	Determination of oil and water content in olive pomace using near infrared and Raman spectrometry. A comparative study. <i>Analytical and Bioanalytical Chemistry</i> , 2004 , 379, 35-41	4.4	55
288	Tunable external cavity quantum cascade laser for the simultaneous determination of glucose and lactate in aqueous phase. <i>Analyst, The</i> , 2010 , 135, 3260-5	5	54
287	Fourier-transform infrared (FTIR) spectroscopy for monitoring and determining the degree of crystallisation of polyhydroxyalkanoates (PHAs). <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 388, 1207-13	4.4	53
286	Mid-infrared quantum cascade lasers for flow injection analysis. <i>Analytical Chemistry</i> , 2000 , 72, 1645-8	7.8	53
285	Application of Mid-Infrared Transmission Spectrometry to the Direct Determination of Glucose in Whole Blood. <i>Applied Spectroscopy</i> , 1998 , 52, 820-822	3.1	53
284	High-performance liquid chromatography with diamond ATR-FTIR detection for the determination of carbohydrates, alcohols and organic acids in red wine. <i>Analytical and Bioanalytical Chemistry</i> , 2003 , 376, 92-7	4.4	52
283	A rapid method for peroxide value determination in edible oils based on flow analysis with Fourier transform infrared spectroscopic detection. <i>Analyst, The</i> , 2001 , 126, 242-6	5	52
282	On-line FT-Raman spectroscopic monitoring of starch gelatinisation and enzyme catalysed starch hydrolysis. <i>Vibrational Spectroscopy</i> , 2000 , 22, 181-190	2.1	51

281	Raman spectroscopic study of CuO/V ₂ O ₅ /P ₂ O ₅ /CaO glass system. <i>Vibrational Spectroscopy</i> , 2008 , 48, 259-262	2.1	49
280	Separation of single-walled carbon nanotubes by use of ionic liquid-aided capillary electrophoresis. <i>Analytical Chemistry</i> , 2008 , 80, 2672-9	7.8	48
279	Mid-infrared spectroscopy coupled to sequential injection analysis for the on-line monitoring of the acetone/butanol fermentation process. <i>Analytica Chimica Acta</i> , 2001 , 438, 175-186	6.6	48
278	Beyond Fourier Transform Infrared Spectroscopy: External Cavity Quantum Cascade Laser-Based Mid-infrared Transmission Spectroscopy of Proteins in the Amide I and Amide II Region. <i>Analytical Chemistry</i> , 2018 , 90, 7072-7079	7.8	45
277	External cavity-quantum cascade laser infrared spectroscopy for secondary structure analysis of proteins at low concentrations. <i>Scientific Reports</i> , 2016 , 6, 33556	4.9	44
276	Reagent-free monitoring of multiple clinically relevant parameters in human blood plasma using a mid-infrared quantum cascade laser based sensor system. <i>Analyst, The</i> , 2013 , 138, 4022-8	5	44
275	Time-Resolved FT-IR Spectroscopy of Chemical Reactions in Solution by Fast Diffusion-Based Mixing in a Micromachined Flow Cell. <i>Applied Spectroscopy</i> , 2001 , 55, 241-251	3.1	44
274	Time-resolved Fourier transform infrared spectrometry using a microfabricated continuous flow mixer: application to protein conformation study using the example of ubiquitin. <i>Lab on A Chip</i> , 2003 , 3, 82-5	7.2	42
273	Stand-off spatial offset Raman spectroscopy for the detection of concealed content in distant objects. <i>Analytical Chemistry</i> , 2011 , 83, 9438-42	7.8	40
272	On-line determination of the intracellular poly(beta-hydroxybutyric acid) content in transformed Escherichia coli and glucose during PHB production using stopped-flow attenuated total reflection FT-IR spectrometry. <i>Analytical Chemistry</i> , 2004 , 76, 6353-8	7.8	39
271	Discrimination of olives according to fruit quality using Fourier transform Raman spectroscopy and pattern recognition techniques. <i>Journal of Agricultural and Food Chemistry</i> , 2004 , 52, 6055-60	5.7	39
270	Nanoscale Chemical Imaging of Individual, Chemotherapeutic Cytarabine-loaded Liposomal Nanocarriers. <i>Nano Research</i> , 2019 , 12, 197	10	39
269	Determination of pyrimidine and purine bases by reversed-phase capillary liquid chromatography with at-line surface-enhanced Raman spectroscopic detection employing a novel SERS substrate based on ZnS/CdSe silver-quantum dots. <i>Analytical Chemistry</i> , 2011 , 83, 9391-8	7.8	38
268	Stand-off Raman spectroscopy. <i>TrAC - Trends in Analytical Chemistry</i> , 2009 , 28, 1235-1242	14.6	38
267	On-line fourier transform infrared detection in capillary electrophoresis. <i>Analytical Chemistry</i> , 2002 , 74, 3843-8	7.8	38
266	Multi-analyte quantification in bioprocesses by Fourier-transform-infrared spectroscopy by partial least squares regression and multivariate curve resolution. <i>Analytica Chimica Acta</i> , 2014 , 807, 103-10	6.6	37
265	Fourier transform infrared detection in miniaturized total analysis systems for sucrose analysis. <i>Analytical Chemistry</i> , 1997 , 69, 2877-81	7.8	36
264	Calix[8]arene coated CdSe/ZnS quantum dots as C60-nanosensor. <i>Analytical Chemistry</i> , 2011 , 83, 8093-1003	7.8	35

263	Background correction and multivariate curve resolution of online liquid chromatography with infrared spectrometric detection. <i>Analytical Chemistry</i> , 2011 , 83, 4855-62	7.8	35
262	Automated sample preparation and analysis using a sequential-injection-capillary electrophoresis (SI-CE) interface. <i>Analyst, The</i> , 2006 , 131, 739-44	5	34
261	Detection of albumin unfolding preceding proteolysis using Fourier transform infrared spectroscopy and chemometric data analysis. <i>Analytical Chemistry</i> , 2006 , 78, 3257-64	7.8	34
260	Towards functional group-specific detection in high-performance liquid chromatography using mid-infrared quantum cascade lasers. <i>Journal of Chromatography A</i> , 2001 , 934, 123-8	4.5	34
259	Chemistry and morphology of dried-up pollen suspension residues. <i>Journal of Raman Spectroscopy</i> , 2013 , 44, 1654-1658	2.3	33
258	Hyphenation of ion exchange high-performance liquid chromatography with Fourier transform infrared detection for the determination of sugars in nonalcoholic beverages. <i>Analytical Chemistry</i> , 1997 , 69, 4286-90	7.8	33
257	Quartz-enhanced photoacoustic spectroscopy-based sensor system for sulfur dioxide detection using a CW DFB-QCL. <i>Applied Physics B: Lasers and Optics</i> , 2014 , 117, 113-120	1.9	32
256	Photo-Fenton decomposition of chlorfenvinphos: determination of reaction pathway. <i>Water Research</i> , 2009 , 43, 441-9	12.5	32
255	A rapid automated method for wine analysis based upon sequential injection (SI)-FTIR spectrometry. <i>Fresenius Journal of Analytical Chemistry</i> , 1998 , 362, 130-136		32
254	Quantitation of Mixtures of Diprotic Organic Acids by FT-IR Flow Titrations and Multivariate Curve Resolution. <i>Applied Spectroscopy</i> , 2002 , 56, 40-50	3.1	32
253	Tunable mid-infrared lasers in physical chemosensors towards the detection of physiologically relevant parameters in biofluids. <i>Sensors and Actuators B: Chemical</i> , 2012 , 170, 189-195	8.5	31
252	Tip-Enhanced Raman Spectroscopy of Atmospherically Relevant Aerosol Nanoparticles. <i>Analytical Chemistry</i> , 2016 , 88, 9766-9772	7.8	31
251	On-Capillary Surface-Enhanced Raman Spectroscopy: Determination of Glutathione in Whole Blood Microsamples. <i>Analytical Chemistry</i> , 2018 , 90, 9093-9100	7.8	31
250	Utility of surface enhanced Raman spectroscopy (SERS) for elucidation and simultaneous determination of some penicillins and penicilloic acid using hydroxylamine silver nanoparticles. <i>Talanta</i> , 2015 , 144, 710-6	6.2	30
249	Implementation of a quantum cascade laser-based gas sensor prototype for sub-ppmv HS measurements in a petrochemical process gas stream. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 729-739	4.4	30
248	Analytical potential of mid-infrared detection in capillary electrophoresis and liquid chromatography: a review. <i>Analytica Chimica Acta</i> , 2010 , 679, 31-42	6.6	30
247	Direct determination of carbon dioxide in aqueous solution using mid-infrared quantum cascade lasers. <i>Applied Spectroscopy</i> , 2004 , 58, 667-70	3.1	30
246	Teaching an old pET new tricks: tuning of inclusion body formation and properties by a mixed feed system in <i>E. coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 667-676	5.7	30

245	A rapid method for the differentiation of yeast cells grown under carbon and nitrogen-limited conditions by means of partial least squares discriminant analysis employing infrared micro-spectroscopic data of entire yeast cells. <i>Talanta</i> , 2012 , 99, 566-73	6.2	28
244	Bead injection for surface enhanced Raman spectroscopy: automated on-line monitoring of substrate generation and application in quantitative analysis. <i>Analyst, The</i> , 2002 , 127, 1365-9	5	28
243	Automated Multivariate Calibration in Sequential Injection-Fourier Transform Infrared Spectroscopy for Sugar Analysis. <i>Analytical Chemistry</i> , 1998 , 70, 226-231	7.8	28
242	Mid-infrared surface transmitting and detecting quantum cascade device for gas-sensing. <i>Scientific Reports</i> , 2016 , 6, 21795	4.9	27
241	Fibre optic ATR-IR spectroscopy at cryogenic temperatures: in-line reaction monitoring on organolithium compounds. <i>Chemical Communications</i> , 2012 , 48, 2451-3	5.8	27
240	Determination of pesticides by capillary chromatography and SERS detection using a novel Silver-Quantum dots "sponge" nanocomposite. <i>Journal of Chromatography A</i> , 2012 , 1225, 55-61	4.5	27
239	Time-resolved flow-flash FT-IR difference spectroscopy: the kinetics of CO photodissociation from myoglobin revisited. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 394, 1869-77	4.4	27
238	Assessment of quantum cascade lasers as mid infrared light sources for measurement of aqueous samples. <i>Vibrational Spectroscopy</i> , 2002 , 29, 283-289	2.1	27
237	Sequential injection Fourier transform infrared spectroscopy for the simultaneous determination of organic acids and sugars in soft drinks employing automated solid phase extraction. <i>Analytica Chimica Acta</i> , 2000 , 422, 63-69	6.6	27
236	On-column silver substrate synthesis and surface-enhanced Raman detection in capillary electrophoresis. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 396, 2341-8	4.4	26
235	Modulation of the pH in the Determination of Phosphate With FlowInjection and Fourier Transform Infrared Detection. <i>Analyst, The</i> , 1997 , 122, 525-530	5	26
234	2D correlation spectroscopy and multivariate curve resolution in analyzing pH-dependent evolving systems monitored by FT-IR spectroscopy, a comparative study. <i>Analytical Chemistry</i> , 2002 , 74, 4944-54	7.8	26
233	Chemometric analysis of multisensor hyperspectral images of precipitated atmospheric particulate matter. <i>Analytical Chemistry</i> , 2015 , 87, 9413-20	7.8	25
232	Enhanced mid-infrared multi-bounce ATR spectroscopy for online detection of hydrogen peroxide using a supercontinuum laser. <i>Optics Express</i> , 2018 , 26, 12169	3.3	25
231	Simultaneous determination of α -amylase and amyloglucosidase activities using flow injection analysis with fourier transform infrared spectroscopic detection and partial least-squares data treatment. <i>Analytica Chimica Acta</i> , 1998 , 366, 35-43	6.6	25
230	Halogen-induced organic aerosol (XOA): a study on ultra-fine particle formation and time-resolved chemical characterization. <i>Faraday Discussions</i> , 2013 , 165, 135-49	3.6	24
229	Ultrasound-enhanced attenuated total reflection mid-infrared spectroscopy in-line probe: acquisition of cell spectra in a bioreactor. <i>Analytical Chemistry</i> , 2015 , 87, 2314-20	7.8	24
228	Differentiation of walnut wood species and steam treatment using ATR-FTIR and partial least squares discriminant analysis (PLS-DA). <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 2713-22	4.4	24

227	EC-QCL mid-IR transmission spectroscopy for monitoring dynamic changes of protein secondary structure in aqueous solution on the example of β aggregation in alcohol-denaturated β chymotrypsin. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 3933-41	4.4	24
226	Sensitivity-Enhanced Fourier Transform Mid-Infrared Spectroscopy Using a Supercontinuum Laser Source. <i>Applied Spectroscopy</i> , 2020 , 74, 485-493	3.1	23
225	Determination of water soluble trace metals in airborne particulate matter using a dynamic extraction procedure with on-line inductively coupled plasma optical emission spectrometric detection. <i>Analytica Chimica Acta</i> , 2012 , 750, 111-9	6.6	23
224	Fourier transform Raman spectrometry for the quantitative analysis of oil content and humidity in olives. <i>Applied Spectroscopy</i> , 2003 , 57, 233-7	3.1	23
223	A mid-IR flow-through sensor for direct monitoring of enzyme catalysed reactions. Case study: Measurement of carbohydrates in beer. <i>Analyst, The</i> , 2002 , 127, 109-13	5	23
222	2f-wavelength modulation Fabry-Perot photothermal interferometry. <i>Optics Express</i> , 2016 , 24, 28958-28967	3.9	23
221	The Next Generation of IR Spectroscopy: EC-QCL-Based Mid-IR Transmission Spectroscopy of Proteins with Balanced Detection. <i>Analytical Chemistry</i> , 2020 , 92, 9901-9907	7.8	22
220	Ultrasonic trapping of microparticles in suspension and reaction monitoring using Raman microspectroscopy. <i>Analytical Chemistry</i> , 2007 , 79, 7853-7	7.8	22
219	Simultaneous determination of enzyme activities by FTIR-spectroscopy in an one-step assay. <i>Analytica Chimica Acta</i> , 1999 , 391, 19-28	6.6	22
218	Balanced-detection interferometric cavity-assisted photothermal spectroscopy. <i>Optics Express</i> , 2019 , 27, 12183-12195	3.3	22
217	Comparability of Raman Spectroscopic Configurations: A Large Scale Cross-Laboratory Study. <i>Analytical Chemistry</i> , 2020 , 92, 15745-15756	7.8	22
216	Surface enhanced Raman spectroscopic direct determination of low molecular weight biothiols in umbilical cord whole blood. <i>Analyst, The</i> , 2016 , 141, 2165-74	5	21
215	Double-layered nanoparticle stacks for surface enhanced infrared absorption spectroscopy. <i>Nanoscale</i> , 2014 , 6, 127-31	7.7	21
214	Pore Size-Dependent Structure of Confined Water in Mesoporous Silica Films from Water Adsorption/Desorption Using ATR-FTIR Spectroscopy. <i>Langmuir</i> , 2019 , 35, 11986-11994	4	20
213	High performance liquid chromatography with mid-infrared detection based on a broadly tunable quantum cascade laser. <i>Analyst, The</i> , 2014 , 139, 2057-64	5	20
212	Developing automated analytical methods for scientific environments using LabVIEW. <i>Talanta</i> , 2010 , 80, 1081-7	6.2	20
211	On-line Fourier transform infrared spectrometric detection in gradient capillary liquid chromatography using nanoliter-flow cells. <i>Analytical Chemistry</i> , 2009 , 81, 3746-53	7.8	20
210	Studying enzymatic bioreactions in a millisecond microfluidic flow mixer. <i>Biomicrofluidics</i> , 2012 , 6, 128033-128039	3.1	20

209	Recent advances in on-line liquid chromatography - infrared spectrometry (LC-IR). <i>TrAC - Trends in Analytical Chemistry</i> , 2010 , 29, 544-552	14.6	20
208	Determination of enzyme kinetics and chemometric evaluation of reaction products by FTIR spectroscopy on the example of α -fructofuranosidase. <i>Vibrational Spectroscopy</i> , 1998 , 16, 127-135	2.1	20
207	Univariate method for background correction in liquid chromatography-Fourier transform infrared spectrometry. <i>Journal of Chromatography A</i> , 2008 , 1190, 102-9	4.5	20
206	Application of MCR-ALS to reveal intermediate conformations in the thermally induced α -transition of poly-L-lysine monitored by FT-IR spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017 , 185, 304-309	4.4	19
205	In Situ Pt Photodeposition and Methanol Photooxidation on Pt/TiO ₂ : Pt-Loading-Dependent Photocatalytic Reaction Pathways Studied by Liquid-Phase Infrared Spectroscopy. <i>ACS Catalysis</i> , 2020 , 10, 2964-2977	13.1	19
204	Determination of carbohydrates present in <i>Saccharomyces cerevisiae</i> using mid-infrared spectroscopy and partial least squares regression. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 8241-8240	4.4	19
203	Nitrogen-Rich Compounds of the Lanthanoids: The 5,5'-Azobis[1H-tetrazol-1-ides] of some Yttric Earths (Tb, Dy, Ho, Er, Tm, Yb, and Lu). <i>Helvetica Chimica Acta</i> , 2009 , 92, 1371-1384	2	19
202	High performance liquid chromatography with on-line dual quantum cascade laser detection for the determination of carbohydrates, alcohols and organic acids in wine and grape juice. <i>Applied Physics B: Lasers and Optics</i> , 2010 , 99, 833-840	1.9	19
201	Towards biochemical reaction monitoring using FT-IR synchrotron radiation. <i>Analyst, The</i> , 2006 , 131, 489-94	5	19
200	Alternatives for coupling sequential injection systems to commercial capillary electrophoresis-mass spectrometry equipment. <i>Journal of Chromatography A</i> , 2006 , 1127, 278-85	4.5	19
199	Heterodyne Phase-Sensitive Dispersion Spectroscopy in the Mid-Infrared with a Quantum Cascade Laser. <i>Analytical Chemistry</i> , 2017 , 89, 5916-5922	7.8	18
198	IR absorption and reflectometric interference spectroscopy (RIFS) combined to a new sensing approach for gas analytes absorbed into thin polymer films. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009 , 72, 994-9	4.4	18
197	Containerless reaction monitoring in ionic liquids by means of Raman microspectroscopy. <i>Lab on a Chip</i> , 2007 , 7, 126-32	7.2	18
196	Time-resolved Fourier transform infrared spectroscopy of chemical reactions in solution using a focal plane array detector. <i>Applied Spectroscopy</i> , 2006 , 60, 1273-8	3.1	18
195	Beyond Beer's Law: Why the Index of Refraction Depends (Almost) Linearly on Concentration. <i>ChemPhysChem</i> , 2020 , 21, 707-711	3.2	17
194	Combining light microscopy, dielectric spectroscopy, MALDI intact cell mass spectrometry, FTIR spectromicroscopy and multivariate data mining for morphological and physiological bioprocess characterization of filamentous organisms. <i>Fungal Genetics and Biology</i> , 2013 , 51, 1-11	3.9	17
193	Surface analysis correlated with the Raman measurements of a femtosecond laser irradiated Ca F ₂ . <i>Applied Surface Science</i> , 2012 , 258, 3178-3183	6.7	17
192	Sensitive in-surface infrared monitoring coupled to stir membrane extraction for the selective determination of total hydrocarbon index in waters. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 1427-33	4.4	17

191	Raman, IR, and surface-enhanced Raman spectroscopy of papaverine. <i>Vibrational Spectroscopy</i> , 2004 , 36, 47-55	2.1	17
190	Micellar electrokinetic chromatography with on-line Fourier transform infrared detection. <i>Electrophoresis</i> , 2003 , 24, 687-92	3.6	17
189	Flow-through microdispenser for interfacing micro-HPLC to Raman and mid-IR spectroscopic detection. <i>Journal of Chromatography A</i> , 2005 , 1080, 132-9	4.5	17
188	Study of acid-base titration of succinic and malic acid in aqueous solution by two-dimensional FTIR correlation spectroscopy. <i>Vibrational Spectroscopy</i> , 2000 , 24, 297-306	2.1	17
187	Parts-per-billion detection of carbon monoxide: A comparison between quartz-enhanced photoacoustic and photothermal spectroscopy. <i>Photoacoustics</i> , 2021 , 22, 100244	9	17
186	External cavity-quantum cascade laser (EC-QCL) spectroscopy for protein analysis in bovine milk. <i>Analytica Chimica Acta</i> , 2017 , 963, 99-105	6.6	16
185	Method for time-resolved monitoring of a solid state biological film using photothermal infrared nanoscopy on the example of poly-L-lysine. <i>Analytical Chemistry</i> , 2015 , 87, 4415-20	7.8	16
184	Fast quantification of bovine milk proteins employing external cavity-quantum cascade laser spectroscopy. <i>Food Chemistry</i> , 2018 , 252, 22-27	8.5	16
183	Cantilever-enhanced photoacoustic detection of hydrogen sulfide (H ₂ S) using NIR telecom laser sources near 1.6 μ m. <i>Applied Physics B: Lasers and Optics</i> , 2016 , 122, 1	1.9	16
182	Off-beam quartz-enhanced photoacoustic spectroscopy-based sensor for hydrogen sulfide trace gas detection using a mode-hop-free external cavity quantum cascade laser. <i>Applied Physics B: Lasers and Optics</i> , 2017 , 123, 1	1.9	16
181	Time-resolved spectral characterization of ring cavity surface emitting and ridge-type distributed feedback quantum cascade lasers by step-scan FT-IR spectroscopy. <i>Optics Express</i> , 2014 , 22, 2656-64	3.3	16
180	Determination of Amyloglucosidase Activity Using Flow Injection Analysis With Fourier Transform Infrared Spectrometric detection. <i>Analyst, The</i> , 1997 , 122, 531-534	5	16
179	Analytical chemistry at the interface between metrology and problem solving. <i>TrAC - Trends in Analytical Chemistry</i> , 2004 , 23, 527-534	14.6	16
178	Flow-through Picoliter Dispenser: A New Approach for Solvent Elimination in FT-IR Spectroscopy. <i>Applied Spectroscopy</i> , 2002 , 56, 902-908	3.1	16
177	Sheath-flow Fourier transform infrared spectrometry for the simultaneous determination of citric, malic and tartaric acids in soft drinks. <i>Analytica Chimica Acta</i> , 2000 , 417, 41-50	6.6	16
176	Quantitative Phosphate Analysis in Industrial Raw Phosphoric Acid Based on Evaluation of Bandshifts in FT-Raman Spectroscopy. <i>Applied Spectroscopy</i> , 2000 , 54, 1610-1616	3.1	16
175	Remote mid-infrared photoacoustic spectroscopy with a quantum cascade laser. <i>Optics Letters</i> , 2015 , 40, 3476-9	3	15
174	Sequential SERS determination of aspirin and vitamin C using in situ laser-induced photochemical silver substrate synthesis in a moving flow cell. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 4733-4744	4.4	15

173	FTIR-spectroscopic and LA-ICP-MS imaging for combined hyperspectral image analysis of tumor models. <i>Analytical Methods</i> , 2017 , 9, 5464-5471	3.2	15
172	Determination of alkaline phosphatase activity in human sera by mid-FTIR spectroscopy. <i>Fresenius Journal of Analytical Chemistry</i> , 1998 , 360, 717-720		15
171	Simultaneous measurement of two compounds in aqueous solution with dual quantum cascade laser absorption spectroscopy. <i>Applied Physics B: Lasers and Optics</i> , 2006 , 83, 135-139	1.9	15
170	Sequential Injection/Mid-Infrared Spectroscopic Analysis of an Acetone-Butanol-Ethanol Fermentation: Analyte Cross-Correlation Effects. <i>Spectroscopy Letters</i> , 2005 , 38, 677-702	1.1	15
169	The application of the wavelet power spectrum to detect and estimate 1/f noise in the presence of analytical signals. <i>Analytica Chimica Acta</i> , 1999 , 388, 303-313	6.6	15
168	Ultra-sensitive refractive index gas sensor with functionalized silicon nitride photonic circuits. <i>APL Photonics</i> , 2020 , 5, 081301	5.2	15
167	In Situ IR Spectroscopy of Mesoporous Silica Films for Monitoring Adsorption Processes and Trace Analysis. <i>ACS Applied Nano Materials</i> , 2018 , 1, 7083-7091	5.6	15
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