## Heinz Wilhelm Siesler

List of Publications by Year in descending order

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70961 85405 6,193 167 41 71 citations h-index g-index papers 186 186 186 5421 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Characterization of bio-nanocomposite films based on gelatin/polyvinyl alcohol blend reinforced with bacterial cellulose nanowhiskers for food packaging applications. Food Hydrocolloids, 2021, 113, 106454.	5 <b>.</b> 6	128
2	Rapid analysis of wheat flour by different handheld near-infrared spectrometers: A discussion of calibration model maintenance and performance comparison. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 252, 119504.	2.0	12
3	Development of antimicrobial films based on chitosan-polyvinyl alcohol blend enriched with ethyl lauroyl arginate (LAE) for food packaging applications. Food Hydrocolloids, 2020, 100, 105419.	5.6	115
4	Recent advances on chitosan-based films for sustainable food packaging applications. Food Packaging and Shelf Life, 2020, 26, 100551.	3.3	200
5	Handheld near-infrared spectrometers: Where are we heading?. NIR News, 2020, 31, 28-35.	1.6	96
6	Quantitative Analysis of Organic Liquid Three-Component Systems: Near-Infrared Transmission versus Raman Spectroscopy, Partial Least Squares versus Classical Least Squares Regression Evaluation and Volume versus Weight Percent Concentration Units. Molecules, 2019, 24, 3564.	1.7	6
7	Hand-Held Near-Infrared Spectroscopy for Authentication of Fengdous and Quantitative Analysis of Mulberry Fruits. Frontiers in Plant Science, 2019, 10, 1548.	1.7	24
8	Rapid Determination of Nutritional Parameters of Pasta/Sauce Blends by Handheld Near-Infrared Spectroscopy. Molecules, 2019, 24, 2029.	1.7	13
9	Comprehensive characterization of active chitosan-gelatin blend films enriched with different essential oils. Food Hydrocolloids, 2019, 95, 33-42.	5 <b>.</b> 6	197
10	Comparative analysis of blend and bilayer films based on chitosan and gelatin enriched with LAE (lauroyl arginate ethyl) with antimicrobial activity for food packaging applications. Food Packaging and Shelf Life, 2019, 19, 31-39.	3.3	103
11	2DCOS and PCMW2D analysis of FT-IR/ATR spectra measured at variable temperatures on-line to a polyurethane polymerization. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 188, 478-482.	2.0	24
12	Identification of textiles by handheld near infrared spectroscopy: Protecting customers against product counterfeiting. Journal of Near Infrared Spectroscopy, 2018, 26, 311-321.	0.8	31
13	Identification Performance of Different Types of Handheld Near-Infrared (NIR) Spectrometers for the Recycling of Polymer Commodities. Applied Spectroscopy, 2018, 72, 1362-1370.	1.2	44
14	Quantitative analysis of a pharmaceutical formulation: Performance comparison of different handheld near-infrared spectrometers. Journal of Pharmaceutical and Biomedical Analysis, 2018, 160, 179-186.	1.4	45
15	Hand-held near-infrared spectrometers: State-of-the-art instrumentation and practical applications. NIR News, 2018, 29, 8-12.	1.6	49
16	Near-Infrared Spectra, Interpretation. , 2017, , 30-39.		4
17	Monitoring the staling of wheat bread using 2D MIR-NIR correlation spectroscopy. Journal of Cereal Science, 2017, 75, 92-99.	1.8	32
18	Real-time analysis of the polymerization kinetics of 1,4-butanediol and 4,4 $\hat{a}$ e <sup>2</sup> -diphenylmethanediisocyanate by fiber-coupled Fourier transform infrared spectroscopy. Analytical and Bioanalytical Chemistry, 2017, 409, 833-839.	1.9	3

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19	Evaluating the Molecular Interaction of Organic Liquid Mixtures Using Near-Infrared Spectroscopy. Applied Spectroscopy, 2016, 70, 635-644.	1.2	17
20	Comparative Variable Temperature Studies of Polyamide II with a Benchtop Fourier Transform and a Miniature Handheld Near-Infrared Spectrometer Using 2D-COS and PCMW-2D Analysis. Applied Spectroscopy, 2016, 70, 1202-1208.	1.2	5
21	Spectra Transfer Between a Fourier Transform Near-Infrared Laboratory and a Miniaturized Handheld Near-Infrared Spectrometer. Applied Spectroscopy, 2016, 70, 852-860.	1.2	20
22	Variable-temperature Fourier-transform infrared studies of poly(l-lactic acid) in different states of order: A 2DCOS and PCMW2D analysis. Journal of Molecular Structure, 2016, 1124, 256-261.	1.8	10
23	2DCOS and PCMW2D analyses of FT-IR/ATR and FT-NIR spectra monitoring the deuterium/hydrogen exchange in liquid D2O. Journal of Molecular Structure, 2014, 1069, 258-263.	1.8	12
24	3D FT-IR imaging spectroscopy of phase-separation in a poly(3-hydroxybutyrate)/poly( I -lactic acid) blend. Vibrational Spectroscopy, 2014, 75, 169-172.	1.2	12
25	Variable-Temperature Fourier Transform Near-Infrared Imaging Spectroscopy of the Deuterium/Hydrogen Exchange in Liquid D <sub>2</sub> 0. Applied Spectroscopy, 2014, 68, 603-607.	1.2	5
26	Influence of laminate thickness reduction on the deformation mechanism of coextruded multilayered PC/PMMA films. Journal of Applied Polymer Science, 2013, 127, 4262-4272.	1.3	7
27	Two-Dimensional Correlation Analysis of Temperature-Dependent FT-IR Spectra of Oleic Acid. Spectroscopy Letters, 2013, 46, 21-27.	0.5	10
28	Qualitative and Quantitative Pharmaceutical Analysis with a Novel Hand-Held Miniature near Infrared Spectrometer. Journal of Near Infrared Spectroscopy, 2013, 21, 445-457.	0.8	75
29	Near Infrared Spectroscopic Authentication of Seafood. Journal of Near Infrared Spectroscopy, 2013, 21, 299-305.	0.8	44
30	Near Infrared Spectroscopic Analysis of Hydrocarbon Contaminants in Soil with a Hand-Held Spectrometer. Journal of Near Infrared Spectroscopy, 2013, 21, 511-521.	0.8	21
31	Temperature-Dependent Fourier Transform Infrared Spectroscopy and Raman Mapping Spectroscopy of Phase-Separation in a Poly(3-hydroxybutyrate)–Poly(l-Lactic Acid) Blend. Applied Spectroscopy, 2013, 67, 141-148.	1.2	9
32	Water Uptake of Poly(2- <i>N</i> -Alkyl-2-Oxazoline)s: Temperature-Dependent Fourier Transform Infrared (FT-IR) Spectroscopy and Two-Dimensional Correlation Analysis (2DCOS). Applied Spectroscopy, 2012, 66, 1145-1155.	1.2	15
33	Sequential Identification of Model Parameters by Derivative Double Two-Dimensional Correlation Spectroscopy and Calibration-Free Approach for Chemical Reaction Systems. Analytical Chemistry, 2012, 84, 8330-8339.	3.2	13
34	New Developments and Applications of Handheld Raman, Mid-Infrared, and Near-Infrared Spectrometers. Applied Spectroscopy Reviews, 2012, 47, 83-115.	3.4	175
35	Activation and Thermodynamic Parameter Study of the Heteronuclear Câ•O···H–N Hydrogen Bonding of Diphenylurethane Isomeric Structures by FT-IR Spectroscopy Using the Regularized Inversion of an Eigenvalue Problem. Journal of Physical Chemistry A, 2012, 116, 7797-7808.	1.1	5
36	Miniature near-infrared (NIR) spectrometer engine for handheld applications. Proceedings of SPIE, 2012, , .	0.8	40

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37	Deformation mechanisms of polypropylene/polystyrene multilayered films. Journal of Applied Polymer Science, 2012, 126, 1593-1599.	1.3	2
38	Conformational polymorphism of the antidiabetic drug chlorpropamide. Journal of Raman Spectroscopy, 2012, 43, 263-272.	1.2	35
39	Water uptake of poly(2-N-alkyl-2-oxazoline)s: influence of crystallinity and hydrogen-bonding on the mechanical properties. Journal of Materials Chemistry, 2011, 21, 17331.	6.7	27
40	Modeling of Isomeric Structure of Diphenyl Urethane by FT-IR Spectroscopy During Synthesis from Phenylisocyanate and Phenol as an Inverse Kinetic Problem. Journal of Physical Chemistry A, 2011, 115, 8832-8844.	1.1	5
41	Solvent Interactions in Methanol/N, N-Dimethylamide Binary Systems Studied by Fourier Transform Infrared–Attenuated Total Reflection (FT-IR/ATR) and Two-Dimensional Correlation Spectroscopy (2D-COS). Applied Spectroscopy, 2011, 65, 892-900.	1.2	13
42	Variable-Temperature Fourier Transform Near-Infrared (FT-NIR) Imaging Spectroscopy of the Diffusion Process of Butanol(OD) into Polyamide 11. Applied Spectroscopy, 2011, 65, 1051-1055.	1.2	17
43	Vibrational Spectroscopy of Polymers. International Journal of Polymer Analysis and Characterization, 2011, 16, 519-541.	0.9	20
44	Crystallization Behavior of Poly(3â€hydroxybutyrate) (PHB), Poly(εâ€caprolactone) (PCL) and Their Blend (50:50 wt.%) Studied by 2D FTâ€lR Correlation Spectroscopy. Macromolecular Symposia, 2011, 305, 90-100.	0.4	14
45	Quantitative Determination of Quality Parameters and Authentication of Vodka Using near Infrared Spectroscopy. Journal of Near Infrared Spectroscopy, 2010, 18, 59-67.	0.8	17
46	An ab initio and DFT study of structure and vibrational spectra of $\hat{I}^3$ form of Oleic acid: Comparison to experimental data. Chemistry and Physics of Lipids, 2010, 163, 207-217.	1.5	34
47	Molecular Weight Dependence of the Thermal Degradation of Poly(ε-caprolactone): A Thermogravimetric Differential Thermal Fourier Transform Infrared Spectroscopy Study. Applied Spectroscopy, 2010, 64, 805-809.	1.2	44
48	Difference of the Crystal Structure of Cellulose in Wood after Hydrothermal and Aging Degradation: A NIR Spectroscopy and XRD Study. Biomacromolecules, 2010, 11, 2300-2305.	2.6	125
49	An experimental study on the "sequential order―rules in generalized two-dimensional correlation spectroscopy. Vibrational Spectroscopy, 2009, 51, 263-269.	1.2	14
50	Rheo-optical FT-IR spectroscopy of poly(3-hydroxybutyrate)/poly(lactic acid) blend films. Vibrational Spectroscopy, 2009, 49, 284-287.	1.2	26
51	Morphology and Deformation Mechanisms and Tensile Properties of Tetrafunctional Multigraft Copolymers. Macromolecules, 2009, 42, 4155-4164.	2.2	51
52	Fourier Transform Infrared Imaging Spectroscopy of the Diffusion Process of D2O into Polyamide 11. Applied Spectroscopy, 2009, 63, 1-5.	1.2	10
53	Variable-Temperature Fourier Transform Infrared Spectroscopic Investigations of Poly(3-Hydroxyalkanoates) and Perturbation-Correlation Moving-Window Two-Dimensional Correlation Analysis. Part I: Study of Non-Annealed and Annealed Poly(3-Hydroxybutyrate) Homopolymer. Applied Spectroscopy, 2009, 63, 1027-1033.	1.2	27
54	Variable-Temperature Fourier Transform Infrared Spectroscopic Investigations of Poly(3-Hydroxyalkanoates) and Perturbation-Correlation Moving-Window Two-Dimensional Correlation Analysis. Part II: Study of Poly(ε-Caprolactone) Homopolymer and a Poly(3-Hydroxybutyrate)—Poly(ε-Caprolactone) Blend. Applied Spectroscopy, 2009, 63, 1034-1040.	1.2	28

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55	<i>In Situ</i> Orientation Studies of a Poly(3-hydroxybutyrate)/Poly(Îμ-caprolactone) Blend by Rheo-Optical Fourier Transform Infrared Spectroscopy and Two-Dimensional Correlation Spectroscopic Analysis. Applied Spectroscopy, 2009, 63, 1351-1355.	1.2	24
56	Molecular Structure and Vibrational Spectroscopic Investigation of Secnidazole Using Density Functional Theory. Journal of Physical Chemistry A, 2009, 113, 273-281.	1.1	22
57	Segmental Orientation in Well-Defined Thermoplastic Elastomers Containing Supramolecular Fillers. Macromolecules, 2009, 42, 524-530.	2.2	34
58	Polymorphism incidence in commercial tablets of mebendazole: a vibrational spectroscopy investigation. Journal of Raman Spectroscopy, 2008, 39, 1150-1157.	1.2	31
59	In Situ Study of Diffusion and Interaction of Water and Mono- or Divalent Anions in a Positively Charged Membrane Using Two-Dimensional Correlation FT-IR/Attenuated Total Reflection Spectroscopy. Journal of Physical Chemistry B, 2008, 112, 2880-2887.	1.2	45
60	FT-IR Spectroscopic Imaging of Anisotropic Poly(3-hydroxybutyrate)/Poly(lactic acid) Blends with Polarized Radiation. Macromolecules, 2008, 41, 2975-2977.	2.2	52
61	FT-IR Imaging Spectroscopy of Phase Separation in Blends of Poly(3-hydroxybutyrate) with Poly( <scp>I</scp> -lactic acid) and Poly(ε-caprolactone). Biomacromolecules, 2008, 9, 523-527.	2.6	81
62	Fourier Transform Infrared Spectroscopic Imaging of Anisotropic Poly(Vinylidene Fluoride) Films with Polarized Radiation. Applied Spectroscopy, 2008, 62, 599-603.	1.2	15
63	Quantitative Determination of Pharmaceutical Drug Formulations by Near-Infrared Spectroscopic Imaging. Applied Spectroscopy, 2008, 62, 1200-1208.	1.2	31
64	A FTIR and 2D-IR Spectroscopic Study on the Microdynamics Phase Separation Mechanism of the Poly( <i>N</i> -isopropylacrylamide) Aqueous Solution. Macromolecules, 2008, 41, 1512-1520.	2.2	278
65	Thermal Degradation of Poly( <b><i>ε</i></b> â€caprolactone), Poly(Lâ€lactic acid) and their Blends with Poly(3â€hydroxyâ€butyrate) Studied by TGA/FTâ€lR Spectroscopy. Macromolecular Symposia, 2008, 265, 183-194	4 <sup>0.4</sup>	89
66	Deformation Behavior of Sphere-Forming Trifunctional Multigraft Copolymer. Macromolecules, 2008, 41, 4565-4568.	2.2	22
67	Simultaneous Determination of the Micro-, Meso-, and Macropore Size Fractions of Porous Polymers by a Combined Use of Fourier Transform Near-Infrared Diffuse Reflection Spectroscopy and Multivariate Techniques. Analytical Chemistry, 2008, 80, 8493-8500.	3.2	20
68	Rheo-optical FT-IR Spectroscopy of LLDPE: Effect of Comonomer and Composite Materials. Macromolecular Symposia, 2008, 265, 166-177.	0.4	10
69	Thermal Degradation of Poly(3-hydroxybutyrate) and Poly(3-hydroxybutyrate- <i>co</i> -3-hydroxyhexanoate) in Nitrogen and Oxygen Studied by Thermogravimetric–Fourier Transform Infrared Spectroscopy. Applied Spectroscopy, 2007, 61, 755-764.	1.2	33
70	In situ monitoring of an isocyanate reaction by fiber-optic FT-IR/ATR-spectroscopy. Vibrational Spectroscopy, 2007, 43, 217-220.	1.2	22
71	Observation of a Penetration Depth Gradient in Attenuated Total Reflection Fourier Transform Infrared Spectroscopic Imaging Applications. Applied Spectroscopy, 2006, 60, 1488-1492.	1.2	15
72	Solid state characterization of olanzapine polymorphs using vibrational spectroscopy. International Journal of Pharmaceutics, 2006, 326, 69-79.	2.6	65

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73	Molecular Structure, Crystallinity and Morphology of Polyethylene/Polypropylene Blends Studied by Raman Mapping, Scanning Electron Microscopy, Wide Angle X-Ray Diffraction, and Differential Scanning Calorimetry. Polymer Journal, 2006, 38, 1127-1136.	1.3	107
74	Thermal Stability of Dehydrophenylalanine-Containing Model Peptides as Probed by Infrared Spectroscopy: a Case Study of anl±-Helical and a310-Helical Peptide. Chemistry and Biodiversity, 2006, 3, 284-295.	1.0	9
<b>7</b> 5	Raman and Wide-Angle X-Ray Diffraction Studies on Molecular Structure, Crystallinity, and Morphology of Uncompatibilized and Compatibilized Blends of High Molecular Weight Polyethylene/Nylon 12. Macromolecular Symposia, 2005, 220, 75-84.	0.4	2
76	Comments on the 12th International Conference on near Infrared Spectroscopy. NIR News, 2005, 16, 13-13.	1.6	0
77	Low-Temperature FT-NIR Spectroscopy of Strain-Induced Orientation and Crystallization in a Poly(dimethylsiloxane) Network. Macromolecular Rapid Communications, 2005, 26, 1093-1098.	2.0	13
78	Near-infrared spectroscopic observation of the ageing process in archaeological wood using a deuterium exchange method. Analyst, The, 2005, 130, 379.	1.7	74
79	Resolution of two-way data from on-line Fourier-transform Raman spectroscopic monitoring of the anionic dispersion polymerization of styrene and 1,3-butadiene by parallel vector analysis (PVA) and window factor analysis (WFA). Chemometrics and Intelligent Laboratory Systems, 2004, 70, 83-92.	1.8	12
80	Fourier Transform Infrared Spectroscopic Investigation of the Electric-Field-Induced Reorientation of the Nematic 7CPB with Different Prealignment. Applied Spectroscopy, 2004, 58, 952-957.	1.2	4
81	New Highly Fluorinated Styrene-Based Materials with Low Surface Energy Prepared by ATRP. Macromolecules, 2004, 37, 788-794.	2.2	110
82	The Influence of Spectral Resolution on the Quantitative near Infrared Spectroscopic Determination of an Active Ingredient in a Solid Drug Formulation. Journal of Near Infrared Spectroscopy, 2004, 12, 271-277.	0.8	11
83	Molecular Structure, Crystallinity, and Morphology of Uncompatibilized and Compatibilized Blends of Polyethylene/Nylon 12. Macromolecular Chemistry and Physics, 2003, 204, 1351-1358.	1.1	12
84	Discrimination of various poly(propylene) copolymers and prediction of their ethylene content by near-infrared and Raman spectroscopy in combination with chemometric methods. Journal of Applied Polymer Science, 2003, 87, 616-625.	1.3	31
85	Two-Dimensional/ATR Infrared Correlation Spectroscopic Study on Water Diffusion in a Poly(ε-caprolactone) Matrix. Biomacromolecules, 2003, 4, 1041-1044.	2.6	51
86	Fourier Transform NIR Study of Liquid Diffusion Processes in Nylon 11 Films:Â Comparison of Water with Alcohols. Chemistry of Materials, 2003, 15, 2752-2756.	3.2	13
87	Photoorientation of a Liquid-Crystalline Polyester with Azobenzene Side Groups: Effects of Irradiation with Linearly Polarized Red Light after Photochemical Pretreatmentâ€. Macromolecules, 2003, 36, 9373-9382.	2.2	45
88	Electric-Field-Induced Reorientation of Liquid Crystalline p-Cyanophenyl-p-n-Alkylbenzoates: A Time-Resolved Study by Fourier Transform Infrared Transmission and Attenuated Total Reflection Spectroscopy. Applied Spectroscopy, 2003, 57, 499-505.	1.2	8
89	Near-Infrared Spectroscopic Monitoring of the Diffusion Process of Deuterium-Labeled Molecules in Wood. Part I: Softwood. Applied Spectroscopy, 2003, 57, 667-674.	1.2	120
90	Near-Infrared Spectroscopic Monitoring of the Diffusion Process of Deuterium-Labeled Molecules in Wood. Part II: Hardwood. Applied Spectroscopy, 2003, 57, 675-681.	1.2	63

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91	Dynamics of a Ferroelectric Liquid Crystal with a Naphthalene Ring during Electric-Field-Induced Switching Studied by Time-Resolved Infrared Spectroscopy Combined with Two-Dimensional Correlation Spectroscopy. Applied Spectroscopy, 2003, 57, 1063-1069.	1.2	7
92	In-Situ Studies of Structure Development during Deformation of a Segmented Poly(urethaneâ^'urea) Elastomer. Macromolecules, 2003, 36, 1940-1954.	2.2	236
93	Application of Mid Infrared/Near Infrared Spectroscopy in Sugar Industry. Applied Spectroscopy Reviews, 2003, 38, 307-354.	3.4	20
94	Novel Fluorinated Polymer Materials Based on 2,3,5,6-Tetrafluoro-4-methoxystyrene. ACS Symposium Series, 2003, , 236-249.	0.5	9
95	Near Infrared Spectra of Pellets and Thin Films of High-Density, Low-Density and Linear Low-Density Polyethylenes and Prediction of Their Physical Properties by Multivariate Data Analysis. Journal of Near Infrared Spectroscopy, 2003, 11, 309-321.	0.8	26
96	Time-resolved infrared spectroscopic study of the switching dynamics of a surface-stabilized ferroelectric liquid crystal. Physical Review E, 2002, 65, 021710.	0.8	7
97	Self-modeling curve resolution analysis of on-line vibrational spectra of polymerisation and transesterification. Macromolecular Symposia, 2002, 184, 229-248.	0.4	4
98	Raman, X-ray diffraction and differential scanning calorimetry studies of the melt-induced changes in uncompatibilized and compatibilized blends of high-density polyethylene and nylon 12. Macromolecular Symposia, 2002, 184, 339-348.	0.4	4
99	On-Line Monitoring of Melt-Extrusion Transesterification of Ethylene Vinylacetate Copolymers by near Infrared Spectroscopy and Chemometrics. Journal of Near Infrared Spectroscopy, 2002, 10, 195-202.	0.8	16
100	Wavelength Interval Selection in Multicomponent Spectral Analysis by Moving Window Partial Least-Squares Regression with Applications to Mid-Infrared and Near-Infrared Spectroscopic Data. Analytical Chemistry, 2002, 74, 3555-3565.	3.2	405
101	Photoorientation of a Liquid Crystalline Polyester with Azobenzene Side Groups. 1. Effects of Irradiation with Linearly Polarized Blue Lightâ€. Journal of Physical Chemistry A, 2002, 106, 3454-3462.	1.1	65
102	Raman spectra of high-density, low-density, and linear low-density polyethylene pellets and prediction of their physical properties by multivariate data analysis. Journal of Applied Polymer Science, 2002, 86, 443-448.	1.3	119
103	Polarized infrared spectroscopic study on the orientation of the molecules in the smectic-C*phase of a ferroelectric liquid crystal with a naphthalene ring:â€f Alternative theory for the analysis of polarization-angle-dependent intensity changes. Physical Review E, 2001, 64, 031704.	0.8	18
104	Polycondensation Reaction of Bis(Hydroxyethylterephthalate)â€"Self Modeling Curve Resolution Analysis of On-Line ATR/FT-IR Spectra. Applied Spectroscopy, 2001, 55, 1181-1191.	1.2	14
105	Fourier-Transform Raman Spectroscopic On-Line Monitoring of the Anionic Dispersion Block Copolymerization of Styrene and 1,3-Butadiene. Macromolecular Rapid Communications, 2001, 22, 690-693.	2.0	16
106	Two-dimensional correlation analysis of variable-temperature Fourier-transform near-infrared spectra of an amorphous polyamide. AIP Conference Proceedings, 2000, , .	0.3	2
107	Monitoring the melt-extrusion transesterification of ethylene–vinylacetate copolymer by self-modeling curve resolution analysis of on-line near-infrared spectra. Analyst, The, 2000, 125, 2315-2321.	1.7	45
108	The diffusion of alcohols and water in polyamide 11: A study by fourierâ€transform nearâ€infrared spectroscopy. Macromolecular Symposia, 1999, 143, 323-336.	0.4	21

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109	Dynamic Infrared Spectroscopy Using the Rapid-Scan Technique. Applied Spectroscopy, 1999, 53, 1535-1541.	1.2	3
110	The Assignment of Overtone and Combination Bands in the near Infrared Spectrum of Polyamide 11. Journal of Near Infrared Spectroscopy, 1999, 7, 65-76.	0.8	33
111	2D FT-NIR and FT-IR correlation analysis of temperature-induced changes of nylon12. Chemical Physics Letters, 1998, 283, 326-332.	1.2	94
112	Molecular orientation relaxation in binary blends of poly(methyl methacrylate) by rheo-optical Fourier-transform infrared spectroscopy. Macromolecular Chemistry and Physics, 1998, 199, 667-675.	1.1	10
113	Near-infrared light-fiber spectroscopic reaction monitoring of the synthesis of diphenylurethane. Fresenius' Journal of Analytical Chemistry, 1998, 362, 109-113.	1.5	17
114	The switching process in a ferroelectric liquid crystalline side-chain polymer by time-resolved step-scan FT-IR spectroscopy and 2D correlation analysis. Vibrational Spectroscopy, 1998, 18, 17-23.	1.2	14
115	Selectively Deuterated Liquid Crystalline Cyanoazobenzene Side-Chain Polyesters. 3. Investigations of Laser-Induced Segmental Mobility by Fourier Transform Infrared Spectroscopy. Macromolecules, 1998, 31, 2141-2151.	2.2	63
116	Selectively Deuterated Liquid Crystalline Cyanoazobenzene Side-Chain Polyesters. 2. Preparation and Characterization of Polyesters. Molecular Crystals and Liquid Crystals, 1998, 319, 231-258.	0.3	5
117	Selectively Deuterated Liquid Crystalline Cyanoazobenzene Side-Chain Polyesters. 1. Preparation and Characterization of Precursors and Diols. Molecular Crystals and Liquid Crystals, 1998, 319, 207-230.	0.3	4
118	Reorientation of Nematic Liquid-Crystals and Liquid-Crystalline Polymers in an Electric Field Studied by FT-IR Time-Resolved Spectroscopy and 2D-Correlation Analysis. Journal of Physical Chemistry B, 1997, 101, 374-380.	1.2	47
119	Time-Resolved Step-Scan FT-IR Spectroscopy of a Nematic Solution of 2-Naphthaldehyde in an Electric Field. Applied Spectroscopy, 1997, 51, 447-449.	1.2	7
120	Two-Dimensional Correlation Analysis of Time-Resolved Step-Scan FT-IR Spectra of a Liquid Crystalline Guest—Host System in an Electric Field. Applied Spectroscopy, 1997, 51, 1698-1702.	1.2	13
121	Rheo-optical fourier transform infrared spectroscopy of polyurethanes and their blends with polyolefins. Macromolecular Chemistry and Physics, 1997, 198, 2057-2072.	1.1	12
122	Side-chain Liquid Crystalline Polyesters for Optical Information Storage. Polymers for Advanced Technologies, 1996, 7, 768-776.	1.6	33
123	Rheo-optical Fourier transform infrared spectroscopy of a liquid-crystalline block copolymer. Polymer Bulletin, 1996, 36, 87-94.	1.7	4
124	Segmental Mobility of Liquid Crystals and Liquid Crystalline Polymers in an Electric Field: A Study by Time-Resolved Rapid-Scan and Step-Scan FTIR Spectroscopy. Applied Spectroscopy Reviews, 1996, 31, 125-165.	3.4	35
125	Sideâ€chain Liquid Crystalline Polyesters for Optical Information Storage. Polymers for Advanced Technologies, 1996, 7, 768-776.	1.6	1
126	The influence of substituents on the orientational behaviour of novel azobenzene sideâ€chain polyesters. Macromolecular Symposia, 1995, 94, 159-170.	0.4	9

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127	Rheo-optical FT-Raman study of uniaxially stretched poly(vinylidene fluoride). Macromolecular Chemistry and Physics, 1995, 196, 815-824.	1.1	7
128	Fourier-transform infrared study of the switching process in a ferroelectric liquid crystalline polymer. Macromolecular Rapid Communications, 1995, 16, 125-130.	2.0	36
129	On the explanation of the biphotonic processes in polyesters containing azobenzene moieties in the side chain. Macromolecular Rapid Communications, 1995, 16, 455-461.	2.0	46
130	Novel Side-Chain Liquid Crystalline Polyester Architecture for Reversible Optical Storage. Macromolecules, 1995, 28, 2172-2183.	2.2	275
131	Dye-containing Sâ^—c side-on/end-on copolymers. Liquid Crystals, 1995, 18, 903-910.	0.9	3
132	Analysis of orientational relaxation in binary blends of uniform polystyrene by rheo-optical Fourier-transform infrared spectroscopy. Macromolecular Rapid Communications, 1994, 15, 467-473.	2.0	11
133	Rheo-Optical Fourier Transform Infrared and Raman Spectroscopy of Polymers. Applied Spectroscopy, 1993, 47, 1531-1539.	1.2	55
134	Vibrational Spectroscopy of Polymers. Advances in Chemistry Series, 1993, , 41-87.	0.6	6
135	Rheoâ€optical fourierâ€transform infrared spectroscopy of polymers 16 orientation and strainâ€induced conformational regularity of poly(dimethylsiloxane) networks during cyclic elongation and recovery. Makromolekulare Chemie Macromolecular Symposia, 1993, 72, 191-199.	0.6	6
136	Fourier-Transform Raman Spectroscopy of Polymers. Oil & Gas Science & Technology, 1993, 48, 223-237.	0.2	5
137	The characterization of polymer deformation by rheoâ€optical fourierâ€transform infrared spectroscopy. Makromolekulare Chemie Macromolecular Symposia, 1992, 53, 89-103.	0.6	37
138	Nearâ€infrared spectroscopy of polymers. Makromolekulare Chemie Macromolecular Symposia, 1991, 52, 113-129.	0.6	69
139	The destructionâ€free analysis of polymers by fourier transform infrared photoacoustic and fourier transform Raman spectroscopy: A comparison. Makromolekulare Chemie Macromolecular Symposia, 1991, 52, 175-189.	0.6	7
140	Near-infrared spectroscopy: why are still so many analysts opposed to it?. Fresenius Zeitschrift FÃ $\frac{1}{4}$ r Analytische Chemie, 1989, 333, 756-756.	0.7	0
141	Title is missing!. Die Makromolekulare Chemie, 1989, 190, 2653-2663.	1.1	13
142	Rheo-Optical Fourier-Transform Infrared Spectroscopy Of Polyamide Elastomers. Proceedings of SPIE, 1989, , .	0.8	0
143	Near-Infrared Spectroscopy With Fiber Optics And Chemometric Data Treatment., 1989, 1145, 158.		2
144	Near infrared reflectance spectroscopy (NIRS): A method of rational multicomponent analysis. Mikrochimica Acta, 1988, 94, 117-120.	2.5	2

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