Sergei G Kazarian

List of Publications by Year
in descending order

260 papers	14,299 citations	22153 59 h-index	28297 105 g-index
271 all docs	271 docs citations	271 times ranked	12409 citing authors

#	Article	IF	Citations
1	Recent advances and applications to cultural heritage using ATR-FTIR spectroscopy and ATR-FTIR spectroscopic imaging. Analyst, The, 2022, 147, 1777-1797.	3.5	28
2	Effect of Tm of blend components on the isothermal melt-crystallization process of PHB/PLLA blends investigated using spectroscopic imaging and DSC. Polymer, 2022, 248, 124820.	3.8	1
3	Nanoscale Melting of 3D Confined Azopolymers through Tunable Thermoplasmonics. Journal of Physical Chemistry Letters, 2022, 13, 5351-5357.	4.6	3
4	In situ ATR-FTIR spectroscopic imaging of PVC, plasticizer and water in solvent-polymeric ion-selective membrane containing Cd2+-selective neutral ionophore. Journal of Membrane Science, 2021, 619, 118798.	8.2	8
5	Intermolecular Interactions in the Polymer Blends Under High-Pressure CO₂ Studied Using Two-Dimensional Correlation Analysis and Two-Dimensional Disrelation Mapping. Applied Spectroscopy, 2021, 75, 250-258.	2.2	12
6	Insight into the effects of moisture and layer build-up on the formation of lead soaps using micro-ATR-FTIR spectroscopic imaging of complex painted stratigraphies. Analytical and Bioanalytical Chemistry, 2021, 413, 455-467.	3.7	17
7	Collagen maturity and mineralization in mesenchymal stem cells cultured on the hydroxyapatite-based bone scaffold analyzed by ATR-FTIR spectroscopic imaging. Materials Science and Engineering C, 2021, 119, 111634.	7.3	25
8	Fourier Transform Infrared Polarization Contrast Imaging Recognizes Proteins Degradation in Lungs upon Metastasis from Breast Cancer. Cancers, 2021, 13, 162.	3.7	9
9	ATR-FTIR spectroscopy and spectroscopic imaging to investigate the behaviour of proteins subjected to freezeâ€“thaw cycles in droplets, wells, and under flow. Analyst, The, 2021, 146, 2902-2909.	3.5	4
10	Insight into purification of monoclonal antibodies in industrial columns via studies of Protein A binding capacity by in situ ATR-FTIR spectroscopy. Analyst, The, 2021, 146, 5177-5185.	3.5	6
11	Analysis of spatial orientation distribution of highly oriented polyimide film using micro ATR-FTIR spectroscopic imaging method. Polymer, 2021, 221, 123616.	3.8	10
12	Perspectives on infrared spectroscopic imaging from cancer diagnostics to process analysis. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 251, 119413.	3.9	14
13	Visualization of Inter- and Intramolecular Interactions in Poly(3-hydroxybutyrate)/Poly(<scp>L</scp>-lactic acid) (PHB/PLLA) Blends During Isothermal Melt Crystallization Using Attenuated Total Reflection Fourier Transform infrared (ATR FT-IR) Spectroscopic Imaging. Applied Spectroscopy, 2021, 75, 980-987.	2.2	4
14	Nanoscale Sensing Vitrification of 3D Confined Glassy Polymers Through Refractory Thermoplasmonics. ACS Photonics, 2021, 8, 1477-1488.	6.6	12
15	Novel Approaches to In-Situ ATR-FTIR Spectroscopy and Spectroscopic Imaging for Real-Time Simultaneous Monitoring Curing Reaction and Diffusion of the Curing Agent at Rubber Nanocomposite Surface. Polymers, 2021, 13, 2879.	4.5	4
16	High throughput study of ionic liquids in controlled environments with FTIR spectroscopic imaging. Journal of Molecular Liquids, 2021, 337, 116412.	4.9	6
17	New DRIFT spectroscopic methodology for acquiring infrared spectra of fiberglass materials. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 260, 119995.	3.9	2
18	Time-Resolved ATRâ€“FTIR Spectroscopy and Macro ATRâ€“FTIR Spectroscopic Imaging of Inorganic Treatments for Stone Conservation. Analytical Chemistry, 2021, 93, 14635-14642.	6.5	15

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19	Micro ATR-FTIR spectroscopic imaging of colon biopsies with a large area Ge crystal. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 228, 117695.	3.9	16
20	Disordered Nonlinear Metalens for Raman Spectral Nanoimaging. ACS Applied Materials & Interfaces, 2020, 12, 3862-3872.	8.0	14
21	Simultaneous Visualization of Phase Separation and Crystallization in PHB/PLLA Blends with In Situ ATR-FTIR Spectroscopic Imaging. Macromolecules, 2020, 53, 9074-9085.	4.8	19
22	How does high-pressure CO2 affect the morphology of PCL/PLA blends? Visualization of phase separation using in situ ATR-FTIR spectroscopic imaging. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 243, 118760.	3.9	12
23	New Insight into Titaniumâ€“Magnesium Zieglerâ€“Natta Catalysts Using Photoluminescence Spectroscopy. Applied Spectroscopy, 2020, 74, 1209-1218.	2.2	3
24	ATR-FTIR spectroscopy and spectroscopic imaging for the analysis of biopharmaceuticals. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 241, 118636.	3.9	91
25	Effect of Controlled Humidity and Tissue Hydration on Colon Cancer Diagnostic via FTIR Spectroscopic Imaging. Analytical Chemistry, 2020, 92, 9691-9698.	6.5	11
26	Insight into Heterogeneous Distribution of Protein Aggregates at the Surface Layer Using Attenuated Total Reflection-Fourier Transform Infrared Spectroscopic Imaging. Analytical Chemistry, 2020, 92, 4760-4764.	6.5	9
27	ATR-FTIR spectroscopy and spectroscopic imaging of proteins. , 2020, , 1-22.		4
28	Interactions of CO2 with the homologous series of Đ¡nMIMBF4 ionic liquids studied in situ ATR-FTIR spectroscopy: spectral characteristics, thermodynamic parameters and their correlation. Journal of Molecular Liquids, 2020, 315, 113694.	4.9	12
29	Transmission Fourier Transform Infrared Spectroscopic Imaging, Mapping, and Synchrotron Scanning Microscopy with Zinc Sulfide Hemispheres on Living Mammalian Cells at Sub-Cellular Resolution. Applied Spectroscopy, 2020, 74, 544-552.	2.2	15
30	Fourier transform infrared spectroscopic imaging of colon tissues: evaluating the significance of amide I and Câ€“H stretching bands in diagnostic applications with machine learning. Analytical and Bioanalytical Chemistry, 2019, 411, 6969-6981.	3.7	19
31	Three-dimensional depth profiling of prostate tissue by micro ATR-FTIR spectroscopic imaging with variable angles of incidence. Analyst, The, 2019, 144, 2954-2964.	3.5	19
32	Spectroscopic imaging of deposition of asphaltenes from crude oil under flow. Journal of Petroleum Science and Engineering, 2019, 181, 106205.	4.2	22
33	Superresolution stimulated Raman scattering microscopy using 2-ENZ nano-composites. Nanoscale, 2019, 11, 7710-7719.	5.6	17
34	Analysis of molecular orientation in polymeric spherulite using polarized micro attenuated total reflection Fourier transform infrared (ATR-FTIR) spectroscopic imaging. Analytica Chimica Acta, 2019, 1065, 79-89.	5.4	12
35	Clinical applications of infrared and Raman spectroscopy: state of play and future challenges. Analyst, The, 2018, 143, 1735-1757.	3.5	163
36	Recent advances in the applications of vibrational spectroscopic imaging and mapping to pharmaceutical formulations. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 197, 10-29.	3.9	57

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37	Fluorescence-based Artemisinin Sensing Using a Pyronin B-doped Cellulose Film Reconstituted from Ionic Liquid. Analytical Letters, 2018, 51, 870-891.	1.8	6
38	Pluronic L121, BMIM BF4 and PEG-400 comparison to identify the best solvent for CO2 sorption. Journal of Molecular Liquids, 2018, 258, 85-88.	4.9	7
39	Current trends and opportunities for the applications of in situ vibrational spectroscopy to investigate the supercritical fluid processing of polymers. Journal of Supercritical Fluids, 2018, 134, 88-95.	3.2	21
40	Near-field depolarization of tip-enhanced Raman scattering by single azo-chromophores. Physical Chemistry Chemical Physics, 2018, 20, 24088-24098.	2.8	9
41	Molecular-level insight into hot-melt loading and drug release from mesoporous silica carriers. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 130, 327-335.	4.3	18
42	Study of the Degradation and Conservation of Historical Leather Book Covers with Macro Attenuated Total Reflectionâ€“Fourier Transform Infrared Spectroscopic Imaging. ACS Omega, 2018, 3, 7150-7157.	3.5	26
43	Thermal effect on dispersive infrared spectroscopic imaging of prostate cancer tissue. Journal of Biophotonics, 2018, 11, e201800187.	2.3	4
44	Electron Spin Resonance of Slowly Rotating Vanadylsâ€“Effective Tool to Quantify the Sizes of Asphaltenes in Situ. Energy & Fuels, 2017, 31, 387-394.	5.1	34
45	Fourier Transform Infrared (FT-IR) Spectroscopic Imaging Analysis of Partially Miscible PMMAâ€“PEG Blends Using Two-Dimensional Disrelation Mapping. Applied Spectroscopy, 2017, 71, 1189-1197.	2.2	34
46	Protein hydration in living cells probed by Fourier transform infrared (FT-IR) spectroscopic imaging. Analyst, The, 2017, 142, 2475-2483.	3.5	29
47	Infrared spectroscopy and spectroscopic imaging in forensic science. Analyst, The, 2017, 142, 257-272.	3.5	80
48	Revealing the Nature and Distribution of Metal Carboxylates in Jackson Pollockâ€™s Alchemy (1947) by Micro-Attenuated Total Reflection FT-IR Spectroscopic Imaging. Analytical Chemistry, 2017, 89, 1283-1289.	6.5	59
49	Spectroscopic imaging of biomaterials and biological systems with FTIR microscopy or with quantum cascade lasers. Analytical and Bioanalytical Chemistry, 2017, 409, 5813-5820.	3.7	53
50	Nonlinear Raman Effects Enhanced by Surface Plasmon Excitation in Planar Refractory Nanoantennas. Nano Letters, 2017, 17, 5533-5539.	9.1	27
51	Non-equilibrium behavior of polyethylene glycol (PEG)/polypropylene glycol (PPG) mixture studied by Fourier transform infrared (FTIR) spectroscopy. Vibrational Spectroscopy, 2017, 88, 49-55.	2.2	26
52	Structural transformation of synthetic hydroxyapatite under simulated in vivo conditions studied with ATR-FTIR spectroscopic imaging. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 171, 155-161.	3.9	61
53	The Combined Use of Imaging Approaches to Assess Drug Release from Multicomponent Solid Dispersions. Pharmaceutical Research, 2017, 34, 990-1001.	3.5	23
54	Applications of Ionic Liquids for the Development of Optical Chemical Sensors and Biosensors. Analytical Sciences, 2017, 33, 261-265.	1.6	56

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55	In-column ATR-FTIR spectroscopy to monitor affinity chromatography purification of monoclonal antibodies. Scientific Reports, 2016, 6, 30526.	3.3	36
56	Attenuated total reflection-Fourier transform infrared spectroscopic imaging of pharmaceuticals in microfluidic devices. Biomicrofluidics, 2016, 10, 024125.	2.4	44
57	Electrostatically-guided inhibition of Curli amyloid nucleation by the CsgC-like family of chaperones. Scientific Reports, 2016, 6, 24656.	3.3	51
58	FTIR spectroscopic imaging and mapping with correcting lenses for studies of biological cells and tissues. Faraday Discussions, 2016, 187, 69-85.	3.2	27
59	Behavior of Asphaltenes in Crude Oil at High-Pressure CO₂ Conditions: In Situ Attenuated Total Reflectionâ€“Fourier Transform Infrared Spectroscopic Imaging Study. Energy & Fuels, 2016, 30, 4750-4757.	5.1	33
60	Analyses of trace amounts of dyes with a new enhanced sensitivity FTIR spectroscopic technique: MU-ATR (metal underlayer ATR spectroscopy). Analytica Chimica Acta, 2016, 941, 67-79.	5.4	15
61	ATR-FTIR spectroscopic imaging to study the drying and dissolution of pharmaceutical polymer-based films. International Journal of Pharmaceutics, 2016, 515, 57-68.	5.2	36
62	Evaluation of novel applications of cellulose hydrogel films reconstituted from acetate and chloride of 1-butyl-3-methylimidazolium by comparing their optical, mechanical, and adsorption properties. Materials Today Communications, 2016, 8, 108-117.	1.9	12
63	Near-field Raman dichroism of azo-polymers exposed to nanoscale dc electrical and optical poling. Nanoscale, 2016, 8, 19867-19875.	5.6	18
64	Clinical Spectroscopy: general discussion. Faraday Discussions, 2016, 187, 429-460.	3.2	6
65	New insights into the mechanism of interaction between CO₂ and polymers from thermodynamic parameters obtained by in situ ATR-FTIR spectroscopy. Physical Chemistry Chemical Physics, 2016, 18, 6465-6475.	2.8	41
66	Attenuated total reflection Fourier-transform infrared (ATR-FTIR) imaging of tissues and live cells. Chemical Society Reviews, 2016, 45, 1850-1864.	38.1	184
67	Micro-Attenuated Total Reflection Fourier Transform Infrared (Micro ATR FT-IR) Spectroscopic Imaging with Variable Angles of Incidence. Applied Spectroscopy, 2015, 69, 1170-1174.	2.2	20
68	Assessing dysplasia of a bronchial biopsy with FTIR spectroscopic imaging. , 2015, , .		4
69	Polarization of near-field light induced with a plasmonic nanoantenna. Physical Review B, 2015, 92, .	3.2	14
70	Chemical Visualization of Asphaltenes Aggregation Processes Studied in Situ with ATR-FTIR Spectroscopic Imaging and NMR Imaging. Journal of Physical Chemistry C, 2015, 119, 2646-2660.	3.1	46
71	Fullerene oxidation and clustering in solution induced by light. Journal of Colloid and Interface Science, 2015, 446, 24-30.	9.4	43
72	How Do Intermolecular Interactions Affect Swelling of Polyketones with a Differing Number of Carbonyl Groups? An In Situ ATR-FTIR Spectroscopic Study of CO₂ Sorption in Polymers. Journal of Physical Chemistry C, 2015, 119, 431-440.	3.1	24

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73	Identifying the mechanisms of drug release from amorphous solid dispersions using MRI and ATR-FTIR spectroscopic imaging. International Journal of Pharmaceutics, 2015, 483, 256-267.	5.2	52
74	High-speed monitoring of the crystallinity change in poly(lactic acid) during photodegradation by using a newly developed wide area NIR imaging system (Compovision). Analytical and Bioanalytical Chemistry, 2015, 407, 397-403.	3.7	15
75	Cleaning-in-place of immunoaffinity resins monitored by in situ ATR-FTIR spectroscopy. Analytical and Bioanalytical Chemistry, 2015, 407, 7111-7122.	3.7	16
76	Evaluating drug delivery with salt formation: Drug disproportionation studied in situ by ATR-FTIR imaging and Raman mapping. Journal of Pharmaceutical and Biomedical Analysis, 2015, 111, 248-256.	2.8	28
77	Comparison of pharmaceutical formulations: ATR-FTIR spectroscopic imaging to study drug-carrier interactions. International Journal of Pharmaceutics, 2015, 495, 112-121.	5.2	28
78	Effect of Temperature and Composition on the Stability of Crude Oil Blends Studied with Chemical Imaging in Situ. Energy & Fuels, 2015, 29, 7114-7123.	5.1	24
79	The biocompatibility of carbon hydroxyapatite/Î²-glucan composite for bone tissue engineering studied with Raman and FTIR spectroscopic imaging. Analytical and Bioanalytical Chemistry, 2015, 407, 7775-7785.	3.7	37
80	Analyzing the impact of different excipients on drug release behavior in hot-melt extrusion formulations using FTIR spectroscopic imaging. European Journal of Pharmaceutical Sciences, 2015, 67, 21-31.	4.0	30
81	An Attenuated Total Reflection Fourier Transform Infrared (ATR FT-IR) Spectroscopic Study of Gas Adsorption on Colloidal Stearate-Capped ZnO Catalyst Substrate. Applied Spectroscopy, 2014, 68, 88-94.	2.2	10
82	Fast Drying and Film Formation of Latex Dispersions Studied with FTIR Spectroscopic Imaging. Langmuir, 2014, 30, 13588-13595.	3.5	16
83	Correlation between Asphaltene Stability in n-Heptane and Crude Oil Composition Revealed with In Situ Chemical Imaging. Adsorption Science and Technology, 2014, 32, 243-255.	3.2	27
84	Combined Study of Biphasic and Zero-Order Release Formulations with Dissolution Tests and ATRâ€“FTIR Spectroscopic Imaging. Journal of Pharmaceutical Sciences, 2014, 103, 1995-2004.	3.3	10
85	In Situ Chemical Imaging of Asphaltene Precipitation from Crude Oil Induced by n-Heptane. Energy & Fuels, 2014, 28, 964-971.	5.1	28
86	Mononuclear Phenolate Diamine Zinc Hydride Complexes and Their Reactions With CO₂. Organometallics, 2014, 33, 1112-1119.	2.3	39
87	In Situ Electron Spin Resonance Study of Molecular Dynamics of Asphaltenes at Elevated Temperature and Pressure. Energy & Fuels, 2014, 28, 6315-6321.	5.1	34
88	High-Throughput Thermal Stability Analysis of a Monoclonal Antibody by Attenuated Total Reflection FT-IR Spectroscopic Imaging. Analytical Chemistry, 2014, 86, 9786-9793.	6.5	48
89	Electrochemical Nanoprobes for Single-Cell Analysis. ACS Nano, 2014, 8, 875-884.	14.6	195
90	Experimental Evidence for Axial Anisotropy beyond the Diffraction Limit Induced with a Bias Voltage Plasmonic Nanoantenna and Longitudinal Optical Near-Fields in Photoreactive Polymer Thin Films. ACS Photonics, 2014, 1, 1025-1032.	6.6	13

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91	Highly Selective Separation of Carbon Dioxide from Nitrogen and Methane by Nitrile/Glycol-Difunctionalized Ionic Liquids in Supported Ionic Liquid Membranes (SILMs). Journal of Physical Chemistry B, 2014, 118, 7440-7449.	2.6	41
92	Stability of indomethacin with relevance to the release from amorphous solid dispersions studied with ATR-FTIR spectroscopic imaging. European Journal of Pharmaceutical Sciences, 2014, 60, 64-71.	4.0	56
93	Swellable, Water- and Acid-Tolerant Polymer Sponges for Chemoselective Carbon Dioxide Capture. Journal of the American Chemical Society, 2014, 136, 9028-9035.	13.7	201
94	Recent Progress of Near-Infrared (NIR) Imaging â€"Development of Novel Instruments and Their Applicability for Practical Situationsâ€". Analytical Sciences, 2014, 30, 143-150.	1.6	30
95	Nanopatterning and tuning of optical taper antenna apex for tip-enhanced Raman scattering performance. Review of Scientific Instruments, 2013, 84, 093106.	1.3	19
96	Aberration-free FTIR spectroscopic imaging of live cells in microfluidic devices. Analyst, The, 2013, 138, 4040.	3.5	57
97	Recent applications of ATR FTIR spectroscopy and imaging to proteins. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 2849-2858.	2.3	212
98	Formulation design space analysis for drug release from swelling polymer tablets. Powder Technology, 2013, 236, 179-187.	4.2	21
99	High-pressure carbon dioxide uptake for porous organic cages: comparison of spectroscopic and manometric measurement techniques. Chemical Communications, 2013, 49, 9410.	4.1	43
100	Correcting the Effect of Refraction and Dispersion of Light in FT-IR Spectroscopic Imaging in Transmission through Thick Infrared Windows. Analytical Chemistry, 2013, 85, 1029-1036.	6.5	42
101	Bacterial cellulose as source for activated nanosized carbon for electric double layer capacitors. Journal of Materials Science, 2013, 48, 367-376.	3.7	48
102	DEM simulation of drug release from structurally heterogeneous swelling tablets. Powder Technology, 2013, 248, 68-76.	4.2	18
103	Dissolution of tablet-in-tablet formulations studied with ATR-FTIR spectroscopic imaging. European Journal of Pharmaceutical Sciences, 2013, 48, 748-757.	4.0	30
104	ATR-FTIR spectroscopic imaging: recent advances and applications to biological systems. Analyst, The, 2013, 138, 1940.	3.5	317
105	Applications of Fourier transform infrared spectroscopic imaging to tablet dissolution and drug release. Expert Opinion on Drug Delivery, 2013, 10, 1207-1221.	5.0	60
106	Application of a newly developed portable NIR imaging device to monitor the dissolution process of tablets. Analytical and Bioanalytical Chemistry, 2013, 405, 9401-9409.	3.7	40
107	Development of a High-Speed Monitoring near Infrared Hyperspectral Camera (Compovision) for Wide Area Imaging and its Applications. NIR News, 2013, 24, 6-11.	0.3	15
108	Potential of a Newly Developed High-Speed Near-Infrared (NIR) Camera (Compovision) in Polymer Industrial Analyses: Monitoring Crystallinity and Crystal Evolution of Polylactic Acid (PLA) and Concentration of PLA in PLA/Poly-(R)-3-Hydroxybutyrate (PHB) Blends. Applied Spectroscopy, 2013, 67, 1441-1446.	2.2	33

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109	Simultaneous Monitoring of Curing Shrinkage and Degree of Cure of Thermosets by Attenuated Total Reflection Fourier Transform Infrared (ATR FT-IR) Spectroscopy. Applied Spectroscopy, 2013, 67, 1427-1436.	2.2	26
110	Micro ATR FTIR imaging of hanging drop protein crystallisation. Vibrational Spectroscopy, 2012, 63, 492-498.	2.2	20
111	Chemical Imaging of Protein Adsorption and Crystallization on a Wettability Gradient Surface. Langmuir, 2012, 28, 3174-3179.	3.5	29
112	Chemical Characterization of Latent Fingerprints by Matrix-Assisted Laser Desorption Ionization, Time-of-Flight Secondary Ion Mass Spectrometry, Mega Electron Volt Secondary Mass Spectrometry, Gas Chromatography/Mass Spectrometry, X-ray Photoelectron Spectroscopy, and Attenuated Total Reflection Fourier Transform Infrared Spectroscopic Imaging: An Intercomparison. Analytical Chemistry, 2012, 84, 8514-8523.	6.5	91
113	FT-IR Spectroscopic Imaging of Reactions in Multiphase Flow in Microfluidic Channels. Analytical Chemistry, 2012, 84, 4052-4056.	6.5	63
114	Modelling of pharmaceutical tablet swelling and dissolution using discrete element method. Chemical Engineering Science, 2012, 69, 394-403.	3.8	31
115	Mapping local microstructure and mechanical performance around carbon nanotube grafted silica fibres: Methodologies for hierarchical composites. Nanoscale, 2011, 3, 4759.	5.6	41
116	Fouling in Crude Oil Preheat Trains: A Systematic Solution to an Old Problem. Heat Transfer Engineering, 2011, 32, 197-215.	1.9	62
117	Generation of Chemical Movies: FT-IR Spectroscopic Imaging of Segmented Flows. Analytical Chemistry, 2011, 83, 3606-3609.	6.5	49
118	Ultrafast infrared chemical imaging of live cells. Chemical Science, 2011, 2, 107-111.	7.4	27
119	Tip-enhanced Raman mapping with top-illumination AFM. Nanotechnology, 2011, 22, 175701.	2.6	36
120	pH-sensitive polymer hydrogels derived from morpholine to prevent the crystallization of ibuprofen. Journal of Controlled Release, 2011, 149, 140-145.	9.9	46
121	A fast algorithm for mass transfer on an unstructured grid formed by DEM particles. Powder Technology, 2011, 214, 415-422.	4.2	5
122	Fabrication of chitosan/poly(Îµ-caprolactone) composite hydrogels for tissue engineering applications. Journal of Materials Science: Materials in Medicine, 2011, 22, 279-288.	3.6	60
123	Application of FTIR Spectroscopic Imaging to Study the Effects of Modifying the pH Microenvironment on the Dissolution of Ibuprofen from HPMC Matrices. Journal of Pharmaceutical Sciences, 2011, 100, 4745-4755.	3.3	38
124	Blends of cellulose and poly(3-hydroxybutyrate-co-3-hydroxyvalerate) prepared from the ionic liquid 1-butyl-3-methylimidazolium chloride. Carbohydrate Polymers, 2011, 86, 94-104.	10.2	52
125	Microstructure-based mathematical modelling and spectroscopic imaging of tablet dissolution. Computers and Chemical Engineering, 2011, 35, 1328-1339.	3.8	42
126	In situ FTIR spectroscopic study of the effect of CO2 sorption on H-bonding in PEGâ€“PVP mixtures. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 78, 1500-1506.	3.9	17

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127	Supercritical CO2-assisted preparation of ibuprofen-loaded PEGâ€“PVP complexes. Journal of Supercritical Fluids, 2011, 57, 190-197.	3.2	20
128	Nondestructive Three-Dimensional Analysis of Layered Polymer Structures with Chemical Imaging. Langmuir, 2010, 26, 19027-19032.	3.5	37
129	Organic and inorganic content of fluorotic rat incisors measured by FTIR spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2010, 77, 59-63.	3.9	12
130	A novel method for the production of crystalline micronised particles. International Journal of Pharmaceutics, 2010, 388, 114-122.	5.2	24
131	Macro-ATR-FT-IR spectroscopic imaging analysis of paint cross-sections. Vibrational Spectroscopy, 2010, 53, 274-278.	2.2	51
132	Collection and detection of latent fingermarks contaminated with cosmetics on nonporous and porous surfaces. Surface and Interface Analysis, 2010, 42, 386-392.	1.8	39
133	Finding a needle in a chemical haystack: tip-enhanced Raman scattering for studying carbon nanotubes mixtures. Nanotechnology, 2010, 21, 445704.	2.6	17
134	Tip-Enhanced Raman Scattering of Carbon Nanotubes. , 2010, , .		0
135	Investigating the Carbon Structures of Crude Oil Deposits and Asphaltenes Combining Raman and ATR-FTIR Spectroscopy. , 2010, , .		0
136	Micro- and Macro-Attenuated Total Reflection Fourier Transform Infrared Spectroscopic Imaging. Applied Spectroscopy, 2010, 64, 135A-152A.	2.2	177
137	ATR-FTIR spectroscopy and spectroscopic imaging of solvent and permeant diffusion across model membranes. European Journal of Pharmaceutics and Biopharmaceutics, 2010, 74, 413-419.	4.3	17
138	Rapid prototyping of microfluidic devices for integrating with FT-IR spectroscopic imaging. Lab on A Chip, 2010, 10, 2170.	6.0	49
139	Preparation of Nanostructured Organicâ€“Inorganic Hybrid Materials Using Supercritical Fluid Technology. Composite Interfaces, 2009, 16, 143-155.	2.3	9
140	In situ permeation study of drug through the stratum corneum using attenuated total reflection Fourier transform infrared spectroscopic imaging. Journal of Biomedical Optics, 2009, 14, 034011.	2.6	16
141	Measurement of drug and macromolecule diffusion across atherosclerotic rabbit aorta ex vivo by attenuated total reflectionâ€“Fourier transform infrared imaging. Journal of Biomedical Optics, 2009, 14, 044008.	2.6	18
142	Application of Fourier transform infrared spectroscopic imaging to the study of effects of age and dietary <scp>l</scp> -arginine on aortic lesion composition in cholesterol-fed rabbits. Journal of the Royal Society Interface, 2009, 6, 669-680.	3.4	40
143	The use of murine embryonic stem cells, alginate encapsulation, and rotary microgravity bioreactor in bone tissue engineering. Biomaterials, 2009, 30, 499-507.	11.4	182
144	Impregnation of a biocompatible polymer aided by supercritical CO2: Evaluation of drug stability and drugâ€“matrix interactions. Journal of Supercritical Fluids, 2009, 48, 56-63.	3.2	65

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145	Solubility enhancement of trans-chalcone using lipid carriers and supercritical CO2 processing. Journal of Supercritical Fluids, 2009, 48, 120-125.	3.2	20
146	Spectroscopic analysis of triflusal impregnated into PMMA from supercritical CO2 solution. Vibrational Spectroscopy, 2009, 49, 183-189.	2.2	12
147	Application of principal component analysis to the thermal characterization of silanized nanoparticles obtained at supercritical carbon dioxide conditions. Analytica Chimica Acta, 2009, 635, 227-234.	5.4	12
148	Local examination of skin diffusion using FTIR spectroscopic imaging and multivariate target factor analysis. Analytica Chimica Acta, 2009, 642, 246-256.	5.4	26
149	Study of Petroleum Heat-exchanger Deposits with ATR-FTIR Spectroscopic Imaging. Energy & Fuels, 2009, 23, 4059-4067.	5.1	40
150	Attenuated Total Reflection-FT-IR Spectroscopic Imaging of Protein Crystallization. Analytical Chemistry, 2009, 81, 3769-3775.	6.5	34
151	Chemical Imaging of Live Cancer Cells in the Natural Aqueous Environment. Applied Spectroscopy, 2009, 63, 164-171.	2.2	120
152	High-Throughput Spectroscopic Imaging Applied to Permeation through the Skin. Applied Spectroscopy, 2009, 63, 512-517.	2.2	21
153	Micro ATR-FTIR spectroscopic imaging of atherosclerosis: an investigation of the contribution of inducible nitric oxide synthase to lesion composition in ApoE-null mice. Analyst, The, 2009, 134, 1107.	3.5	34
154	Chemical imaging of microfluidic flows using ATR-FTIR spectroscopy. Lab on A Chip, 2009, 9, 2909.	6.0	101
155	Simultaneous FTIR Spectroscopic Imaging and Visible Photography to Monitor Tablet Dissolution and Drug Release. Pharmaceutical Research, 2008, 25, 853-860.	3.5	85
156	ATR-FTIR imaging for the analysis of organic materials in paint cross sections: case studies on paint samples from the National Gallery, London. Analytical and Bioanalytical Chemistry, 2008, 392, 37-45.	3.7	120
157	Compaction of Pharmaceutical Tablets with Different Polymer Matrices Studied by FTIR Imaging and X-Ray Microtomography. Journal of Pharmaceutical Sciences, 2008, 97, 4269-4277.	3.3	42
158	Assessment of hand-held Raman instrumentation for in situ screening for potentially counterfeit artesunate antimalarial tablets by FT-Raman spectroscopy and direct ionization mass spectrometry. Analytica Chimica Acta, 2008, 623, 178-186.	5.4	83
159	Measurement of CO2 sorption and PEG 1500 swelling by ATR-IR spectroscopy. Journal of Supercritical Fluids, 2008, 45, 384-390.	3.2	68
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