

Sergei G Kazarian

List of Publications by Year in descending order

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260
papers

14,299
citations

22153

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28297

105
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271
docs citations

271
times ranked

12409
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular states of water in room temperature ionic liquidsElectronic Supplementary Information available. See http://www.rsc.org/suppdata/cp/b1/b106900d/ . Physical Chemistry Chemical Physics, 2001, 3, 5192-5200.	2.8	1,364
2	Specific Intermolecular Interaction of Carbon Dioxide with Polymers. Journal of the American Chemical Society, 1996, 118, 1729-1736.	13.7	786
3	Combining ionic liquids and supercritical fluids: in situ ATR-IR study of CO ₂ dissolved in two ionic liquids at high pressures. Chemical Communications, 2000, , 2047-2048.	4.1	379
4	ATR-FTIR spectroscopic imaging: recent advances and applications to biological systems. Analyst, The, 2013, 138, 1940.	3.5	317
5	Applications of ATR-FTIR spectroscopic imaging to biomedical samples. Biochimica Et Biophysica Acta - Biomembranes, 2006, 1758, 858-867.	2.6	311
6	Spectroscopy of polymer/drug formulations processed with supercritical fluids: in situ ATR-IR and Raman study of impregnation of ibuprofen into PVP. International Journal of Pharmaceutics, 2002, 232, 81-90.	5.2	215
7	Recent applications of ATR FTIR spectroscopy and imaging to proteins. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 2849-2858.	2.3	212
8	New Opportunities in Micro- and Macro-Attenuated Total Reflection Infrared Spectroscopic Imaging: Spatial Resolution and Sampling Versatility. Applied Spectroscopy, 2003, 57, 381-389.	2.2	205
9	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
10	Electrochemical Nanoprobes for Single-Cell Analysis. ACS Nano, 2014, 8, 875-884.	14.6	195
11	Attenuated total reflection Fourier-transform infrared (ATR-FTIR) imaging of tissues and live cells. Chemical Society Reviews, 2016, 45, 1850-1864.	38.1	184
12	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
13	Micro- and Macro-Attenuated Total Reflection Fourier Transform Infrared Spectroscopic Imaging. Applied Spectroscopy, 2010, 64, 135A-152A.	2.2	177
14	Vibrational Spectroscopy in Supercritical Fluids: From Analysis and Hydrogen Bonding to Polymers and Synthesis. Angewandte Chemie International Edition in English, 1995, 34, 1275-1295.	4.4	168
15	Clinical applications of infrared and Raman spectroscopy: state of play and future challenges. Analyst, The, 2018, 143, 1735-1757.	3.5	163
16	Quantitative Equilibrium Constants between CO ₂ and Lewis Bases from FTIR Spectroscopy. The Journal of Physical Chemistry, 1996, 100, 10837-10848.	2.9	161
17	Chemical Photography of Drug Release. Macromolecules, 2003, 36, 9866-9872.	4.8	145
18	Applications of Attenuated Total Reflection Infrared Spectroscopic Imaging to Pharmaceutical Formulations. Analytical Chemistry, 2003, 75, 2140-2146.	6.5	123

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19	ATR-FTIR imaging for the analysis of organic materials in paint cross sections: case studies on paint samples from the National Gallery, London. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 392, 37-45.	3.7	120
20	Chemical Imaging of Live Cancer Cells in the Natural Aqueous Environment. <i>Applied Spectroscopy</i> , 2009, 63, 164-171.	2.2	120
21	Spectroscopic Imaging of Latent Fingermarks Collected with the Aid of a Gelatin Tape. <i>Analytical Chemistry</i> , 2007, 79, 5771-5776.	6.5	112
22	Membrane transport of hydrocortisone acetate from supersaturated solutions; the role of polymers. <i>International Journal of Pharmaceutics</i> , 2001, 221, 95-105.	5.2	111
23	Detection of trace materials with Fourier transform infrared spectroscopy using a multi-channel detector. <i>Analyst</i> , The, 2006, 131, 126-131.	3.5	109
24	In situ Spectroscopy of Polymers Subjected to Supercritical CO ₂ : Plasticization and Dye Impregnation. <i>Applied Spectroscopy</i> , 1997, 51, 491-494.	2.2	108
25	Characterization of genuine and fake artesunate anti-malarial tablets using Fourier transform infrared imaging and spatially offset Raman spectroscopy through blister packs. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 389, 1525-1532.	3.7	107
26	FTIR Imaging of Polymeric Materials under High-Pressure Carbon Dioxide. <i>Macromolecules</i> , 2004, 37, 579-584.	4.8	103
27	Chemical imaging of microfluidic flows using ATR-FTIR spectroscopy. <i>Lab on A Chip</i> , 2009, 9, 2909.	6.0	101
28	Chemical Imaging of Latent Fingerprint Residues. <i>Applied Spectroscopy</i> , 2007, 61, 514-522.	2.2	100
29	An ATR-FTIR Study of Poly (Dimethylsiloxane) under High-Pressure Carbon Dioxide: Simultaneous Measurement of Sorption and Swelling. <i>Journal of Physical Chemistry B</i> , 2002, 106, 754-759.	2.6	99
30	Combined approach of FTIR imaging and conventional dissolution tests applied to drug release. <i>Journal of Controlled Release</i> , 2004, 98, 295-305.	9.9	99
31	Fourier Transform Infrared Imaging of Human Hair with a High Spatial Resolution without the Use of a Synchrotron. <i>Applied Spectroscopy</i> , 2005, 59, 149-155.	2.2	91
32	Combined Fourier-transform infrared imaging and desorption electrospray-ionization linear ion-trap mass spectrometry for analysis of counterfeit antimalarial tablets. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 551-559.	3.7	91
33	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. <i>Analytical Chemistry</i> , 2012, 84, 8514-8523.	6.5	91
34	ATR-FTIR spectroscopy and spectroscopic imaging for the analysis of biopharmaceuticals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 241, 118636.	3.9	91
35	Can Organometallic Noble Gas Compounds Be Observed in Solution at Room Temperature? A Time-Resolved Infrared (TRIR) and UV Spectroscopic Study of the Photochemistry of M(CO) ₆ (M = Cr, Tj ETQq1 1 0,784314 rgBT /Overl 1996, 118, 10525-10532.	13.7	87
36	Simultaneous FTIR Spectroscopic Imaging and Visible Photography to Monitor Tablet Dissolution and Drug Release. <i>Pharmaceutical Research</i> , 2008, 25, 853-860.	3.5	85

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37	Polymorphism and devitrification of nifedipine under controlled humidity: a combined FT-Raman, IR and Raman microscopic investigation. <i>Journal of Raman Spectroscopy</i> , 2004, 35, 353-359.	2.5	84
38	High-Pressure CO ₂ -Expanded Solvents: Simultaneous Measurement of CO ₂ Sorption and Swelling of Liquid Polymers with in-Situ Near-IR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2004, 108, 13995-13999.	2.6	84
39	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. <i>Analytica Chimica Acta</i> , 2008, 623, 178-186.	5.4	83
40	Spectroscopic imaging of arteries and atherosclerotic plaques. <i>Biopolymers</i> , 2004, 74, 328-335.	2.4	82
41	Infrared spectroscopy and spectroscopic imaging in forensic science. <i>Analyst, The</i> , 2017, 142, 257-272.	3.5	80
42	Partitioning of solutes and cosolvents between supercritical CO ₂ and polymer phases. <i>Journal of Supercritical Fluids</i> , 1998, 13, 107-112.	3.2	79
43	How is hydrogen-bonding influenced by solvent density? The spectroscopic study and modeling of the interaction between a proton donor and acceptor from the gas phase to supercritical fluid states. <i>Journal of the American Chemical Society</i> , 1993, 115, 11099-11109.	13.7	77
44	Fourier Transform Infrared Imaging for High-Throughput Analysis of Pharmaceutical Formulations. <i>ACS Combinatorial Science</i> , 2005, 7, 185-189.	3.3	76
45	Combined Application of Imaging Methods for the Characterization of a Polymer Blend. <i>Applied Spectroscopy</i> , 2002, 56, 1515-1523.	2.2	74
46	Supercritical fluid dyeing of PMMA films with azo-dyes. <i>Journal of Applied Polymer Science</i> , 1998, 69, 911-919.	2.6	70
47	Measurement of CO ₂ sorption and PEG 1500 swelling by ATR-IR spectroscopy. <i>Journal of Supercritical Fluids</i> , 2008, 45, 384-390.	3.2	68
48	Release of Poorly Soluble Drugs from HPMC Tablets Studied by FTIR Imaging and Flow-Through Dissolution Tests. <i>Journal of Pharmaceutical Sciences</i> , 2005, 94, 2096-2109.	3.3	67
49	Combining the Tape-Lift Method and Fourier Transform Infrared Spectroscopic Imaging for Forensic Applications. <i>Applied Spectroscopy</i> , 2006, 60, 1013-1021.	2.2	67
50	Study of Solvent Diffusion and Solvent-Induced Crystallization in Syndiotactic Polystyrene Using FT-IR Spectroscopy and Imaging. <i>Macromolecules</i> , 2005, 38, 2327-2332.	4.8	65
51	Integrated 3-Dimensional Expansion and Osteogenic Differentiation of Murine Embryonic Stem Cells. <i>Tissue Engineering</i> , 2007, 13, 2957-2970.	4.6	65
52	Impregnation of a biocompatible polymer aided by supercritical CO ₂ : Evaluation of drug stability and drug-matrix interactions. <i>Journal of Supercritical Fluids</i> , 2009, 48, 56-63.	3.2	65
53	In situ FTIR measurement of carbon dioxide sorption into poly(ethylene terephthalate) at elevated pressures. <i>Journal of Applied Polymer Science</i> , 2000, 77, 764-775.	2.6	64
54	An innovative design of compaction cell for in situ FT-IR imaging of tablet dissolution. <i>Vibrational Spectroscopy</i> , 2004, 35, 9-13.	2.2	64

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55	FT-IR Spectroscopic Imaging of Reactions in Multiphase Flow in Microfluidic Channels. <i>Analytical Chemistry</i> , 2012, 84, 4052-4056.	6.5	63
56	Applications of vibrational spectroscopy to characterize poly(ethylene terephthalate) processed with supercritical CO ₂ . <i>Vibrational Spectroscopy</i> , 1999, 19, 277-283.	2.2	62
57	Fouling in Crude Oil Preheat Trains: A Systematic Solution to an Old Problem. <i>Heat Transfer Engineering</i> , 2011, 32, 197-215.	1.9	62
58	High-pressure CO ₂ -induced reduction of the melting temperature of ionic liquids Electronic supplementary information (ESI) available: Fig. S1: ATR-IR spectrum of [C16mim][PF6] after it has been subjected to solution of ferrocene in CO ₂ at 50 °C and pressure of ca. 110 bar. See http://www.rsc.org/suppdata/cc/b2/b202759c/ . <i>Chemical Communications</i> , 2002, , 1314-1315.	4.1	61
59	FTIR Spectroscopic Imaging of Dissolution of a Solid Dispersion of Nifedipine in Poly(ethylene glycol). <i>Molecular Pharmaceutics</i> , 2004, 1, 331-335.	4.6	61
60	Structural transformation of synthetic hydroxyapatite under simulated in vivo conditions studied with ATR-FTIR spectroscopic imaging. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 171, 155-161.	3.9	61
61	In situ ATR-FTIR Spectroscopy of Poly(ethylene terephthalate) Subjected to High-Temperature Methanol. <i>Macromolecular Symposia</i> , 2008, 265, 195-204.	0.7	60
62	Fabrication of chitosan/poly(μ -caprolactone) composite hydrogels for tissue engineering applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 279-288.	3.6	60
63	Applications of Fourier transform infrared spectroscopic imaging to tablet dissolution and drug release. <i>Expert Opinion on Drug Delivery</i> , 2013, 10, 1207-1221.	5.0	60
64	Supercritical fluid impregnation of different azo-dyes into polymer: in situ UV/Vis spectroscopic study. <i>Journal of Supercritical Fluids</i> , 2003, 27, 215-221.	3.2	59
65	Revealing the Nature and Distribution of Metal Carboxylates in Jackson Pollock's <i>Alchemy</i> (1947) by Micro-Attenuated Total Reflection FT-IR Spectroscopic Imaging. <i>Analytical Chemistry</i> , 2017, 89, 1283-1289.	6.5	59
66	Characterization of Tuyere-Level Core-Drill Coke Samples from Blast Furnace Operation. <i>Energy & Fuels</i> , 2007, 21, 3446-3454.	5.1	58
67	Infrared cell for supercritical fluid-polymer interactions. <i>Review of Scientific Instruments</i> , 1996, 67, 1586-1589.	1.3	57
68	Aberration-free FTIR spectroscopic imaging of live cells in microfluidic devices. <i>Analyst</i> , 2013, 138, 4040.	3.5	57
69	Recent advances in the applications of vibrational spectroscopic imaging and mapping to pharmaceutical formulations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 197, 10-29.	3.9	57
70	Stability of indomethacin with relevance to the release from amorphous solid dispersions studied with ATR-FTIR spectroscopic imaging. <i>European Journal of Pharmaceutical Sciences</i> , 2014, 60, 64-71.	4.0	56
71	Applications of Ionic Liquids for the Development of Optical Chemical Sensors and Biosensors. <i>Analytical Sciences</i> , 2017, 33, 261-265.	1.6	56
72	Spectroscopic imaging of biomaterials and biological systems with FTIR microscopy or with quantum cascade lasers. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 5813-5820.	3.7	53

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73	Characterisation of bioactive and resorbable polylactide/Bioglass® composites by FTIR spectroscopic imaging. <i>Biomaterials</i> , 2004, 25, 3931-3938.	11.4	52
74	Enhancing high-throughput technology and microfluidics with FTIR spectroscopic imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 529-532.	3.7	52
75	Blends of cellulose and poly(3-hydroxybutyrate-co-3-hydroxyvalerate) prepared from the ionic liquid 1-butyl-3-methylimidazolium chloride. <i>Carbohydrate Polymers</i> , 2011, 86, 94-104.	10.2	52
76	Identifying the mechanisms of drug release from amorphous solid dispersions using MRI and ATR-FTIR spectroscopic imaging. <i>International Journal of Pharmaceutics</i> , 2015, 483, 256-267.	5.2	52
77	Macro-ATR-FT-IR spectroscopic imaging analysis of paint cross-sections. <i>Vibrational Spectroscopy</i> , 2010, 53, 274-278.	2.2	51
78	Electrostatically-guided inhibition of Curli amyloid nucleation by the CsgC-like family of chaperones. <i>Scientific Reports</i> , 2016, 6, 24656.	3.3	51
79	High-pressure CO ₂ -enhanced polymer interdiffusion and dissolution studied with in situ ATR-FTIR spectroscopic imaging. <i>Polymer</i> , 2006, 47, 4649-4658.	3.8	50
80	ATR-FTIR imaging of albumen photographic prints. <i>Journal of Cultural Heritage</i> , 2007, 8, 387-395.	3.3	50
81	Rapid prototyping of microfluidic devices for integrating with FT-IR spectroscopic imaging. <i>Lab on a Chip</i> , 2010, 10, 2170.	6.0	49
82	Generation of Chemical Movies: FT-IR Spectroscopic Imaging of Segmented Flows. <i>Analytical Chemistry</i> , 2011, 83, 3606-3609.	6.5	49
83	Bacterial cellulose as source for activated nanosized carbon for electric double layer capacitors. <i>Journal of Materials Science</i> , 2013, 48, 367-376.	3.7	48
84	High-Throughput Thermal Stability Analysis of a Monoclonal Antibody by Attenuated Total Reflection FT-IR Spectroscopic Imaging. <i>Analytical Chemistry</i> , 2014, 86, 9786-9793.	6.5	48
85	High-Throughput Study of Poly(ethylene glycol)/Ibuprofen Formulations under Controlled Environment Using FTIR Imaging. <i>ACS Combinatorial Science</i> , 2006, 8, 26-31.	3.3	47
86	Applications of FTIR Spectroscopy to Supercritical Fluid Drying, Extraction and Impregnation. <i>Applied Spectroscopy Reviews</i> , 1997, 32, 301-348.	6.7	46
87	Visualisation of the heterogeneous water sorption in a pharmaceutical formulation under controlled humidity via FT-IR imaging. <i>Vibrational Spectroscopy</i> , 2004, 35, 45-49.	2.2	46
88	Attenuated Total Reflection Fourier Transform Infrared Imaging with Variable Angles of Incidence: A Three-Dimensional Profiling of Heterogeneous Materials. <i>Applied Spectroscopy</i> , 2007, 61, 48-54.	2.2	46
89	pH-sensitive polymer hydrogels derived from morpholine to prevent the crystallization of ibuprofen. <i>Journal of Controlled Release</i> , 2011, 149, 140-145.	9.9	46
90	Chemical Visualization of Asphaltenes Aggregation Processes Studied in Situ with ATR-FTIR Spectroscopic Imaging and NMR Imaging. <i>Journal of Physical Chemistry C</i> , 2015, 119, 2646-2660.	3.1	46

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91	FT-IR Imaging of Solvent-Induced Crystallization in Polymers. <i>Macromolecules</i> , 2004, 37, 6498-6503.	4.8	45
92	Supercritical fluid impregnation of polyethylene films, a new approach to studying equilibria in matrices; the hydrogen bonding of fluoroalcohols to (i-5-C5Me5)Ir(CO) ₂ and the effect on C ₁ -H activation. <i>Chemical Physics Letters</i> , 1993, 206, 175-180.	2.6	44
93	“Tunable”-diffusion of D ₂ O in CO ₂ -swollen poly(methyl methacrylate) films. <i>AIChE Journal</i> , 1997, 43, 1838-1848.	3.6	44
94	Attenuated total reflection-Fourier transform infrared spectroscopic imaging of pharmaceuticals in microfluidic devices. <i>Biomicrofluidics</i> , 2016, 10, 024125.	2.4	44
95	High-pressure carbon dioxide uptake for porous organic cages: comparison of spectroscopic and manometric measurement techniques. <i>Chemical Communications</i> , 2013, 49, 9410.	4.1	43
96	Fullerene oxidation and clustering in solution induced by light. <i>Journal of Colloid and Interface Science</i> , 2015, 446, 24-30.	9.4	43
97	Polymers and supercritical fluids: opportunities for vibrational spectroscopy. <i>Macromolecular Symposia</i> , 2002, 184, 215-228.	0.7	42
98	Spectroscopic Imaging of Compacted Pharmaceutical Tablets. <i>Chemical Engineering Research and Design</i> , 2005, 83, 1303-1310.	5.6	42
99	Compaction of Pharmaceutical Tablets with Different Polymer Matrices Studied by FTIR Imaging and X-Ray Microtomography. <i>Journal of Pharmaceutical Sciences</i> , 2008, 97, 4269-4277.	3.3	42
100	Microstructure-based mathematical modelling and spectroscopic imaging of tablet dissolution. <i>Computers and Chemical Engineering</i> , 2011, 35, 1328-1339.	3.8	42
101	Correcting the Effect of Refraction and Dispersion of Light in FT-IR Spectroscopic Imaging in Transmission through Thick Infrared Windows. <i>Analytical Chemistry</i> , 2013, 85, 1029-1036.	6.5	42
102	A comparison between gravimetric and in situ spectroscopic methods to measure the sorption of CO ₂ in a biocompatible polymer. <i>Journal of Supercritical Fluids</i> , 2005, 36, 160-165.	3.2	41
103	Mapping local microstructure and mechanical performance around carbon nanotube grafted silica fibres: Methodologies for hierarchical composites. <i>Nanoscale</i> , 2011, 3, 4759.	5.6	41
104	Highly Selective Separation of Carbon Dioxide from Nitrogen and Methane by Nitrile/Glycol-Difunctionalized Ionic Liquids in Supported Ionic Liquid Membranes (SILMs). <i>Journal of Physical Chemistry B</i> , 2014, 118, 7440-7449.	2.6	41
105	New insights into the mechanism of interaction between CO ₂ and polymers from thermodynamic parameters obtained by in situ ATR-FTIR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 6465-6475.	2.8	41
106	Validation of Macroscopic Attenuated Total Reflection-Fourier Transform Infrared Imaging to Study Dissolution of Swelling Pharmaceutical Tablets. <i>Applied Spectroscopy</i> , 2004, 58, 1413-1419.	2.2	40
107	Application of Fourier transform infrared spectroscopic imaging to the study of effects of age and dietary L-arginine on aortic lesion composition in cholesterol-fed rabbits. <i>Journal of the Royal Society Interface</i> , 2009, 6, 669-680.	3.4	40
108	Study of Petroleum Heat-exchanger Deposits with ATR-FTIR Spectroscopic Imaging. <i>Energy & Fuels</i> , 2009, 23, 4059-4067.	5.1	40

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109	Application of a newly developed portable NIR imaging device to monitor the dissolution process of tablets. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 9401-9409.	3.7	40
110	Collection and detection of latent fingermarks contaminated with cosmetics on nonporous and porous surfaces. <i>Surface and Interface Analysis</i> , 2010, 42, 386-392.	1.8	39
111	Mononuclear Phenolate Diamine Zinc Hydride Complexes and Their Reactions With CO ₂ . <i>Organometallics</i> , 2014, 33, 1112-1119.	2.3	39
112	Cosolvent tuning of tautomeric equilibrium in supercritical fluids. <i>AIChE Journal</i> , 1997, 43, 515-524.	3.6	38
113	ATR-FTIR spectroscopic imaging with expanded field of view to study formulations and dissolution. <i>Lab on A Chip</i> , 2006, 6, 864.	6.0	38
114	In situ high-throughput study of drug polymorphism under controlled temperature and humidity using FT-IR spectroscopic imaging. <i>Vibrational Spectroscopy</i> , 2007, 43, 221-226.	2.2	38
115	Application of FTIR Spectroscopic Imaging to Study the Effects of Modifying the pH Microenvironment on the Dissolution of Ibuprofen from HPMC Matrices. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 4745-4755.	3.3	38
116	Near-wall particle depletion in a flowing colloidal suspension. <i>Journal of Rheology</i> , 2002, 46, 481-493.	2.6	37
117	Nondestructive Three-Dimensional Analysis of Layered Polymer Structures with Chemical Imaging. <i>Langmuir</i> , 2010, 26, 19027-19032.	3.5	37
118	The biocompatibility of carbon hydroxyapatite/ β -glucan composite for bone tissue engineering studied with Raman and FTIR spectroscopic imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 7775-7785.	3.7	37
119	Confocal Raman study of poly(ethylene terephthalate) fibres dyed in supercritical carbon dioxide: dye diffusion and polymer morphology. <i>Polymer</i> , 2005, 46, 2943-2949.	3.8	36
120	Polymer Processing with Supercritical Fluids. , 2006, , 205-238.		36
121	Tip-enhanced Raman mapping with top-illumination AFM. <i>Nanotechnology</i> , 2011, 22, 175701.	2.6	36
122	In-column ATR-FTIR spectroscopy to monitor affinity chromatography purification of monoclonal antibodies. <i>Scientific Reports</i> , 2016, 6, 30526.	3.3	36
123	ATR-FTIR spectroscopic imaging to study the drying and dissolution of pharmaceutical polymer-based films. <i>International Journal of Pharmaceutics</i> , 2016, 515, 57-68.	5.2	36
124	Attenuated Total Reflection-FT-IR Spectroscopic Imaging of Protein Crystallization. <i>Analytical Chemistry</i> , 2009, 81, 3769-3775.	6.5	34
125	Micro ATR-FTIR spectroscopic imaging of atherosclerosis: an investigation of the contribution of inducible nitric oxide synthase to lesion composition in ApoE-null mice. <i>Analyst</i> , The, 2009, 134, 1107.	3.5	34
126	<i>In Situ</i> Electron Spin Resonance Study of Molecular Dynamics of Asphaltenes at Elevated Temperature and Pressure. <i>Energy & Fuels</i> , 2014, 28, 6315-6321.	5.1	34

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127	Electron Spin Resonance of Slowly Rotating Vanadylsâ€“Effective Tool to Quantify the Sizes of Asphaltenes in Situ. <i>Energy & Fuels</i> , 2017, 31, 387-394.	5.1	34
128	Fourier Transform Infrared (FT-IR) Spectroscopic Imaging Analysis of Partially Miscible PMMAâ€“PEG Blends Using Two-Dimensional Disrelation Mapping. <i>Applied Spectroscopy</i> , 2017, 71, 1189-1197.	2.2	34
129	Spectroscopic Imaging Applied to Drug Release. <i>Food and Bioproducts Processing</i> , 2005, 83, 127-135.	3.6	33
130	Effect of Moisture and Pressure on Tablet Compaction Studied With FTIR Spectroscopic Imaging. <i>Journal of Pharmaceutical Sciences</i> , 2007, 96, 351-360.	3.3	33
131	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. <i>Applied Spectroscopy</i> , 2013, 67, 1441-1446.	2.2	33
132	Behavior of Asphaltenes in Crude Oil at High-Pressure CO ₂ Conditions: <i>In Situ</i> Attenuated Total Reflectionâ€“Fourier Transform Infrared Spectroscopic Imaging Study. <i>Energy & Fuels</i> , 2016, 30, 4750-4757.	5.1	33
133	IR study of hydrogen bonds formed by Îƒ-complexes of transition metals in liquid xenon solution. <i>Journal of Molecular Structure</i> , 1988, 174, 29-34.	3.6	32
134	Cosolvent Effects of Modified Supercritical Carbon Dioxide on Cross-Linked Poly(dimethylsiloxane). <i>Journal of Physical Chemistry B</i> , 1998, 102, 2176-2186.	2.6	32
135	Effects of particle size on near-wall depletion in mono-dispersed colloidal suspensions. <i>Journal of Colloid and Interface Science</i> , 2004, 280, 511-517.	9.4	32
136	FT-IR imaging and Raman microscopic study of poly(ethylene terephthalate) film processed with supercritical CO ₂ . <i>Vibrational Spectroscopy</i> , 2004, 35, 3-7.	2.2	31
137	Modelling of pharmaceutical tablet swelling and dissolution using discrete element method. <i>Chemical Engineering Science</i> , 2012, 69, 394-403.	3.8	31
138	Rheology of Poly(propylene glycol) and Suspensions of Fumed Silica in Poly(propylene glycol) under High-Pressure CO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 6310-6319.	3.7	30
139	Dissolution of tablet-in-tablet formulations studied with ATR-FTIR spectroscopic imaging. <i>European Journal of Pharmaceutical Sciences</i> , 2013, 48, 748-757.	4.0	30
140	Recent Progress of Near-Infrared (NIR) Imaging â€”Development of Novel Instruments and Their Applicability for Practical Situationsâ€”. <i>Analytical Sciences</i> , 2014, 30, 143-150.	1.6	30
141	Analyzing the impact of different excipients on drug release behavior in hot-melt extrusion formulations using FTIR spectroscopic imaging. <i>European Journal of Pharmaceutical Sciences</i> , 2015, 67, 21-31.	4.0	30
142	ATR-IR spectroscopy of superheated water and in situ study of the hydrothermal decomposition of poly(ethylene terephthalate). <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 3759-3763.	2.8	29
143	Chemical Imaging of Protein Adsorption and Crystallization on a Wettability Gradient Surface. <i>Langmuir</i> , 2012, 28, 3174-3179.	3.5	29
144	Protein hydration in living cells probed by Fourier transform infrared (FT-IR) spectroscopic imaging. <i>Analyst</i> , The, 2017, 142, 2475-2483.	3.5	29

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145	Chemical Imaging with Variable Angles of Incidence Using a Diamond Attenuated Total Reflection Accessory. <i>Applied Spectroscopy</i> , 2008, 62, 1102-1107.	2.2	28
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