Sergei G Kazarian

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 261
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#	Paper	IF	Citations
261	Molecular states of water in room temperature ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2001 , 3, 5192-5200	3.6	1264
260	Specific Intermolecular Interaction of Carbon Dioxide with Polymers. <i>Journal of the American Chemical Society</i> , 1996 , 118, 1729-1736	16.4	700
259	Combining ionic liquids and supercritical fluids: in situ ATR-IR study of CO2 dissolved in two ionic liquids at high pressures. <i>Chemical Communications</i> , 2000 , 2047-2048	5.8	342
258	ATR-FTIR spectroscopic imaging: recent advances and applications to biological systems. <i>Analyst, The</i> , 2013 , 138, 1940-51	5	258
257	Applications of ATR-FTIR spectroscopic imaging to biomedical samples. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006 , 1758, 858-67	3.8	256
256	Spectroscopy of polymer/drug formulations processed with supercritical fluids: in situ ATR-IR and Raman study of impregnation of ibuprofen into PVP. <i>International Journal of Pharmaceutics</i> , 2002 , 232, 81-90	6.5	199
255	New opportunities in micro- and macro-attenuated total reflection infrared spectroscopic imaging: spatial resolution and sampling versatility. <i>Applied Spectroscopy</i> , 2003 , 57, 381-9	3.1	186
254	Swellable, water- and acid-tolerant polymer sponges for chemoselective carbon dioxide capture. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9028-35	16.4	175
253	The use of murine embryonic stem cells, alginate encapsulation, and rotary microgravity bioreactor in bone tissue engineering. <i>Biomaterials</i> , 2009 , 30, 499-507	15.6	161
252	Electrochemical nanoprobes for single-cell analysis. ACS Nano, 2014, 8, 875-84	16.7	158
251	Recent applications of ATR FTIR spectroscopy and imaging to proteins. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013 , 1834, 2849-58	4	158
250	Micro- and macro-attenuated total reflection Fourier transform infrared spectroscopic imaging. Plenary Lecture at the 5th International Conference on Advanced Vibrational Spectroscopy, 2009, Melbourne, Australia. <i>Applied Spectroscopy</i> , 2010 , 64, 135A-152A	3.1	158
249	Quantitative Equilibrium Constants between CO2 and Lewis Bases from FTIR Spectroscopy. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 10837-10848		145
248	Attenuated total reflection Fourier-transform infrared (ATR-FTIR) imaging of tissues and live cells. <i>Chemical Society Reviews</i> , 2016 , 45, 1850-64	58.5	144
247	Vibrational Spectroscopy in Supercritical Fluids: From Analysis and Hydrogen Bonding to Polymers and Synthesis. <i>Angewandte Chemie International Edition in English</i> , 1995 , 34, 1275-1295		139
246	Themical Photographylof Drug Release. <i>Macromolecules</i> , 2003 , 36, 9866-9872	5.5	138
245	Applications of attenuated total reflection infrared spectroscopic imaging to pharmaceutical formulations. <i>Analytical Chemistry</i> , 2003 , 75, 2140-6	7.8	118

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244	Clinical applications of infrared and Raman spectroscopy: state of play and future challenges. <i>Analyst, The</i> , 2018 , 143, 1735-1757	5	114
243	Chemical imaging of live cancer cells in the natural aqueous environment. <i>Applied Spectroscopy</i> , 2009 , 63, 164-71	3.1	113
242	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	4.4	107
241	Spectroscopic imaging of latent fingermarks collected with the aid of a gelatin tape. <i>Analytical Chemistry</i> , 2007 , 79, 5771-6	7.8	104
240	Membrane transport of hydrocortisone acetate from supersaturated solutions; the role of polymers. <i>International Journal of Pharmaceutics</i> , 2001 , 221, 95-105	6.5	103
239	FTIR Imaging of Polymeric Materials under High-Pressure Carbon Dioxide. <i>Macromolecules</i> , 2004 , 37, 579-584	5.5	98
238	In situ Spectroscopy of Polymers Subjected to Supercritical CO2: Plasticization and Dye Impregnation. <i>Applied Spectroscopy</i> , 1997 , 51, 491-494	3.1	96
237	Chemical imaging of microfluidic flows using ATR-FTIR spectroscopy. <i>Lab on A Chip</i> , 2009 , 9, 2909-13	7.2	95
236	Combined approach of FTIR imaging and conventional dissolution tests applied to drug release. Journal of Controlled Release, 2004 , 98, 295-305	11.7	95
235	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, 1525-32	4.4	94
234	An ATRIR 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	3.4	94
233	Chemical imaging of latent fingerprint residues. <i>Applied Spectroscopy</i> , 2007 , 61, 514-22	3.1	89
232	Detection of trace materials with Fourier transform infrared spectroscopy using a multi-channel detector. <i>Analyst, The</i> , 2006 , 131, 126-31	5	89
231	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, 551-9	4.4	87
230	Fourier transform infrared imaging of human hair with a high spatial resolution without the use of a synchrotron. <i>Applied Spectroscopy</i> , 2005 , 59, 149-55	3.1	83
229	Simultaneous FTIR spectroscopic imaging and visible photography to monitor tablet dissolution and drug release. <i>Pharmaceutical Research</i> , 2008 , 25, 853-60	4.5	79
228	Spectroscopic imaging of arteries and atherosclerotic plaques. <i>Biopolymers</i> , 2004 , 74, 328-35	2.2	77
227	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	2.3	77

226	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, 178-86	6.6	76
225	Fourier transform infrared imaging for high-throughput analysis of pharmaceutical formulations. <i>ACS Combinatorial Science</i> , 2005 , 7, 185-9		76
224	High-Pressure CO2-Expanded Solvents: Simultaneous Measurement of CO2 Sorption and Swelling of Liquid Polymers with in-Situ Near-IR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 13995-	13 9 99	74
223	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	7.8	73
222	Partitioning of solutes and cosolvents between supercritical CO2 and polymer phases. <i>Journal of Supercritical Fluids</i> , 1998 , 13, 107-112	4.2	72
221	Combined Application of Imaging Methods for the Characterization of a Polymer Blend. <i>Applied Spectroscopy</i> , 2002 , 56, 1515-1523	3.1	70
220	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, Mo, and W) in Supercritical Noble Gas and CO2 Solution. <i>Journal of the American Chemical</i>	16.4	69
219	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	16.4	67
218	Infrared spectroscopy and spectroscopic imaging in forensic science. <i>Analyst, The</i> , 2017 , 142, 257-272	5	63
217	Combining the tape-lift method and Fourier transform infrared spectroscopic imaging for forensic applications. <i>Applied Spectroscopy</i> , 2006 , 60, 1013-21	3.1	63
216	Measurement of CO2 sorption and PEG 1500 swelling by ATR-IR spectroscopy. <i>Journal of Supercritical Fluids</i> , 2008 , 45, 384-390	4.2	62
215	Supercritical fluid dyeing of PMMA films with azo-dyes. <i>Journal of Applied Polymer Science</i> , 1998 , 69, 911-919	2.9	61
214	An innovative design of compaction cell for in situ FT-IR imaging of tablet dissolution. <i>Vibrational Spectroscopy</i> , 2004 , 35, 9-13	2.1	61
213	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, 2096-109	3.9	61
212	Integrated 3-dimensional expansion and osteogenic differentiation of murine embryonic stem cells. <i>Tissue Engineering</i> , 2007 , 13, 2957-70		58
211	Study of Solvent Diffusion and Solvent-Induced Crystallization in Syndiotactic Polystyrene Using FT-IR Spectroscopy and Imaging. <i>Macromolecules</i> , 2005 , 38, 2327-2332	5.5	58
210	High-pressure CO2-induced reduction of the melting temperature of ionic liquids. <i>Chemical Communications</i> , 2002 , 1314-5	5.8	58
209	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	2.9	58

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208	Impregnation of a biocompatible polymer aided by supercritical CO2: Evaluation of drug stability and drughatrix interactions. <i>Journal of Supercritical Fluids</i> , 2009 , 48, 56-63	4.2	57
207	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	4.2	55
206	Applications of vibrational spectroscopy to characterize poly(ethylene terephthalate) processed with supercritical CO2. <i>Vibrational Spectroscopy</i> , 1999 , 19, 277-283	2.1	55
205	Aberration-free FTIR spectroscopic imaging of live cells in microfluidic devices. <i>Analyst, The</i> , 2013 , 138, 4040-7	5	53
204	FT-IR spectroscopic imaging of reactions in multiphase flow in microfluidic channels. <i>Analytical Chemistry</i> , 2012 , 84, 4052-6	7.8	53
203	FTIR spectroscopic imaging of dissolution of a solid dispersion of nifedipine in poly(ethylene glycol). <i>Molecular Pharmaceutics</i> , 2004 , 1, 331-5	5.6	53
202	Applications of Fourier transform infrared spectroscopic imaging to tablet dissolution and drug release. <i>Expert Opinion on Drug Delivery</i> , 2013 , 10, 1207-21	8	52
201	High-pressure CO2-enhanced polymer interdiffusion and dissolution studied with in situ ATR-FTIR spectroscopic imaging. <i>Polymer</i> , 2006 , 47, 4649-4658	3.9	50
200	Enhancing high-throughput technology and microfluidics with FTIR spectroscopic imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 388, 529-32	4.4	49
199	Characterisation of bioactive and resorbable polylactide/Bioglass composites by FTIR spectroscopic imaging. <i>Biomaterials</i> , 2004 , 25, 3931-8	15.6	49
198	Revealing the Nature and Distribution of Metal Carboxylates in Jackson Pollock's Alchemy (1947) by Micro-Attenuated Total Reflection FT-IR Spectroscopic Imaging. <i>Analytical Chemistry</i> , 2017 , 89, 1283-	-7289	48
197	Fouling in Crude Oil Preheat Trains: A Systematic Solution to an Old Problem. <i>Heat Transfer Engineering</i> , 2011 , 32, 197-215	1.7	48
196	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	4.4	47
195	Infrared cell for supercritical fluidpolymer interactions. <i>Review of Scientific Instruments</i> , 1996 , 67, 1586-	1 <u>5</u> 89	46
194	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	5.1	45
193	Fabrication of chitosan/poly(Eaprolactone) composite hydrogels for tissue engineering applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2011 , 22, 279-88	4.5	45
192	Rapid prototyping of microfluidic devices for integrating with FT-IR spectroscopic imaging. <i>Lab on A Chip</i> , 2010 , 10, 2170-4	7.2	45
191	Generation of chemical movies: FT-IR spectroscopic imaging of segmented flows. <i>Analytical Chemistry</i> , 2011 , 83, 3606-9	7.8	45

190	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	10.3	45
189	Macro-ATR-FT-IR spectroscopic imaging analysis of paint cross-sections. <i>Vibrational Spectroscopy</i> , 2010 , 53, 274-278	2.1	44
188	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, 256-67	6.5	43
187	In situ ATR-FTIR Spectroscopy of Poly(ethylene terephthalate) Subjected to High-Temperature Methanol. <i>Macromolecular Symposia</i> , 2008 , 265, 195-204	0.8	43
186	Characterization of Tuyere-Level Core-Drill Coke Samples from Blast Furnace Operation. <i>Energy & Energy Energy</i> 21, 3446-3454	4.1	43
185	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	2.1	43
184	Bacterial cellulose as source for activated nanosized carbon for electric double layer capacitors. Journal of Materials Science, 2013 , 48, 367-376	4.3	42
183	ATR-FTIR imaging of albumen photographic prints. <i>Journal of Cultural Heritage</i> , 2007 , 8, 387-395	2.9	42
182	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	3.1	42
181	High-throughput study of poly(ethylene glycol)/ibuprofen formulations under controlled environment using FTIR imaging. <i>ACS Combinatorial Science</i> , 2006 , 8, 26-31		41
180	Spectroscopic Imaging of Compacted Pharmaceutical Tablets. <i>Chemical Engineering Research and Design</i> , 2005 , 83, 1303-1310	5.5	41
179	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	4.4	40
178	Applications of Ionic Liquids for the Development of Optical Chemical Sensors and Biosensors. <i>Analytical Sciences</i> , 2017 , 33, 261-274	1.7	40
177	pH-sensitive polymer hydrogels derived from morpholine to prevent the crystallization of ibuprofen. <i>Journal of Controlled Release</i> , 2011 , 149, 140-5	11.7	40
176	Mapping local microstructure and mechanical performance around carbon nanotube grafted silica fibres: methodologies for hierarchical composites. <i>Nanoscale</i> , 2011 , 3, 4759-67	7.7	40
175	FT-IR Imaging of Solvent-Induced Crystallization in Polymers. <i>Macromolecules</i> , 2004 , 37, 6498-6503	5.5	40
174	High-throughput thermal stability analysis of a monoclonal antibody by attenuated total reflection FT-IR spectroscopic imaging. <i>Analytical Chemistry</i> , 2014 , 86, 9786-93	7.8	39
173	High-pressure carbon dioxide uptake for porous organic cages: comparison of spectroscopic and manometric measurement techniques. <i>Chemical Communications</i> , 2013 , 49, 9410-2	5.8	39

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172	Compaction of pharmaceutical tablets with different polymer matrices studied by FTIR imaging and X-ray microtomography. <i>Journal of Pharmaceutical Sciences</i> , 2008 , 97, 4269-77	3.9	39	
171	A comparison between gravimetric and in situ spectroscopic methods to measure the sorption of CO2 in a biocompatible polymer. <i>Journal of Supercritical Fluids</i> , 2005 , 36, 160-165	4.2	39	
170	Polymers and supercritical fluids: opportunities for vibrational spectroscopy. <i>Macromolecular Symposia</i> , 2002 , 184, 215-228	0.8	39	
169	Electrostatically-guided inhibition of Curli amyloid nucleation by the CsgC-like family of chaperones. <i>Scientific Reports</i> , 2016 , 6, 24656	4.9	39	
168	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	4.4	38	
167	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, 669-80	4.1	38	
166	Applications of FTIR Spectroscopy to Supercritical Fluid Drying, Extraction and Impregnation. <i>Applied Spectroscopy Reviews</i> , 1997 , 32, 301-348	4.5	38	
165	Hunable diffusion of D2O in CO2-swollen poly (methyl methacrylate) films. AICHE Journal, 1997, 43, 1838-1848	3.6	38	
164	Validation of macroscopic attenuated total reflection-Fourier transform infrared imaging to study dissolution of swelling pharmaceutical tablets. <i>Applied Spectroscopy</i> , 2004 , 58, 1413-9	3.1	38	
163	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, 7440-9	3.4	37	
162	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, 1029-36	7.8	37	
161	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	3.8	37	
160	Mononuclear Phenolate Diamine Zinc Hydride Complexes and Their Reactions With CO. <i>Organometallics</i> , 2014 , 33, 1112-1119	3.8	36	
159	Microstructure-based mathematical modelling and spectroscopic imaging of tablet dissolution. <i>Computers and Chemical Engineering</i> , 2011 , 35, 1328-1339	4	36	
158	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	2.1	36	
157	ATR-FTIR spectroscopic imaging with expanded field of view to study formulations and dissolution. <i>Lab on A Chip</i> , 2006 , 6, 864-70	7.2	36	
156	Nondestructive three-dimensional analysis of layered polymer structures with chemical imaging. <i>Langmuir</i> , 2010 , 26, 19027-32	4	35	
155	Supercritical fluid impregnation of polyethylene films, a new approach to studying equilibria in matrices; the hydrogen bonding of fluoroalcohols to (B-C5Me5)Ir(CO)2 and the effect on C?H activation. Chemical Physics Letters. 1993, 206, 175-180.	2.5	35	

154	ATR-FTIR spectroscopy and spectroscopic imaging for the analysis of biopharmaceuticals. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020 , 241, 118636	4.4	33
153	New insights into the mechanism of interaction between CO2 and polymers from thermodynamic parameters obtained by in situ ATR-FTIR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 6465-75	3.6	33
152	Application of a newly developed portable NIR imaging device to monitor the dissolution process of tablets. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 9401-9	4.4	33
151	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, 4745-55	3.9	33
150	Study of Petroleum Heat-exchanger Deposits with ATR-FTIR Spectroscopic Imaging. <i>Energy & Energy & Ene</i>	4.1	33
149	Collection and detection of latent fingermarks contaminated with cosmetics on nonporous and porous surfaces. <i>Surface and Interface Analysis</i> , 2010 , 42, 386-392	1.5	33
148	Cosolvent tuning of tautomeric equilibrium in supercritical fluids. AICHE Journal, 1997, 43, 515-524	3.6	33
147	Spectroscopic Imaging Applied to Drug Release. Food and Bioproducts Processing, 2005, 83, 127-135	4.9	33
146	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	3.9	33
145	The biocompatibility of carbon hydroxyapatite/Eglucan composite for bone tissue engineering studied with Raman and FTIR spectroscopic imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 7775-85	4.4	32
144	Fullerene oxidation and clustering in solution induced by light. <i>Journal of Colloid and Interface Science</i> , 2015 , 446, 24-30	9.3	32
143	Attenuated total reflection-FT-IR spectroscopic imaging of protein crystallization. <i>Analytical Chemistry</i> , 2009 , 81, 3769-75	7.8	32
142	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, The</i> , 2009 , 134, 1107-18	5	32
141	Attenuated total reflection-Fourier transform infrared spectroscopic imaging of pharmaceuticals in microfluidic devices. <i>Biomicrofluidics</i> , 2016 , 10, 024125	3.2	32
140	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	6.5	32
139	Near-wall particle depletion in a flowing colloidal suspension. <i>Journal of Rheology</i> , 2002 , 46, 481-493	4.1	31
138	Effect of moisture and pressure on tablet compaction studied with FTIR spectroscopic imaging. Journal of Pharmaceutical Sciences, 2007, 96, 351-60	3.9	30
137	Fourier Transform Infrared (FT-IR) Spectroscopic Imaging Analysis of Partially Miscible PMMA-PEG Blends Using Two-Dimensional Disrelation Mapping. <i>Applied Spectroscopy</i> , 2017 , 71, 1189-1197	3.1	29

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136	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, 1441-6	3.1	29	
135	Tip-enhanced Raman mapping with top-illumination AFM. <i>Nanotechnology</i> , 2011 , 22, 175701	3.4	29	
134	Cosolvent Effects of Modified Supercritical Carbon Dioxide on Cross-Linked Poly(dimethylsiloxane). Journal of Physical Chemistry B, 1998 , 102, 2176-2186	3.4	29	
133	IR study of hydrogen bonds formed by Etomplexes of transition metals in liquid xenon solution. <i>Journal of Molecular Structure</i> , 1988 , 174, 29-34	3.4	29	
132	In Situ Electron Spin Resonance Study of Molecular Dynamics of Asphaltenes at Elevated Temperature and Pressure. <i>Energy & Energy & Energy</i>	4.1	28	
131	FT-IR imaging and Raman microscopic study of poly(ethylene terephthalate) film processed with supercritical CO2. <i>Vibrational Spectroscopy</i> , 2004 , 35, 3-7	2.1	28	
130	Rheology of Poly(propylene glycol) and Suspensions of Fumed Silica in Poly(propylene glycol) under High-Pressure CO2. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 6310-6319	3.9	28	
129	In-column ATR-FTIR spectroscopy to monitor affinity chromatography purification of monoclonal antibodies. <i>Scientific Reports</i> , 2016 , 6, 30526	4.9	28	
128	Effects of particle size on near-wall depletion in mono-dispersed colloidal suspensions. <i>Journal of Colloid and Interface Science</i> , 2004 , 280, 511-7	9.3	27	
127	Chemical imaging of protein adsorption and crystallization on a wettability gradient surface. <i>Langmuir</i> , 2012 , 28, 3174-9	4	26	
126	Solute partitioning between an ionic liquid and high-pressure CO2 studied with in situ FTIR spectroscopy. <i>Journal of Chemical Thermodynamics</i> , 2005 , 37, 621-626	2.9	26	
125	FTIR spectroscopic imaging and mapping with correcting lenses for studies of biological cells and tissues. <i>Faraday Discussions</i> , 2016 , 187, 69-85	3.6	26	
124	Electron Spin Resonance of Slowly Rotating Vanadyls Effective Tool to Quantify the Sizes of Asphaltenes in Situ. <i>Energy & Double States</i> , 2017, 31, 387-394	4.1	25	
123	Ultrafast infrared chemical imaging of live cells. Chemical Science, 2011, 2, 107-111	9.4	25	
122	Local examination of skin diffusion using FTIR spectroscopic imaging and multivariate target factor analysis. <i>Analytica Chimica Acta</i> , 2009 , 642, 246-56	6.6	25	
121	Chemical imaging with variable angles of incidence using a diamond attenuated total reflection accessory. <i>Applied Spectroscopy</i> , 2008 , 62, 1102-7	3.1	25	
120	In Situ Chemical Imaging of Asphaltene Precipitation from Crude Oil Induced by n-Heptane. <i>Energy & Energy Fuels</i> , 2014 , 28, 964-971	4.1	24	
119	Recent progress of near-infrared (NIR) imagingdevelopment of novel instruments and their applicability for practical situations <i>Analytical Sciences</i> , 2014 , 30, 143-50	1.7	24	

118	Dissolution of tablet-in-tablet formulations studied with ATR-FTIR spectroscopic imaging. <i>European Journal of Pharmaceutical Sciences</i> , 2013 , 48, 748-57	5.1	24
117	Correlation between Asphaltene Stability in n-Heptane and Crude Oil Composition Revealed with In Situ Chemical Imaging. <i>Adsorption Science and Technology</i> , 2014 , 32, 243-255	3.6	24
116	Effect of dense gas CO2 on the coacervation of elastin. <i>Biomacromolecules</i> , 2008 , 9, 1100-5	6.9	24
115	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	5.1	23
114	Nonlinear Raman Effects Enhanced by Surface Plasmon Excitation in Planar Refractory Nanoantennas. <i>Nano Letters</i> , 2017 , 17, 5533-5539	11.5	23
113	Modelling of pharmaceutical tablet swelling and dissolution using discrete element method. <i>Chemical Engineering Science</i> , 2012 , 69, 394-403	4.4	23
112	Spectroscopic Measurement of Solute and Cosolvent Partitioning between Supercritical CO2 and Polymers. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 10007-10016	3.4	23
111	Protein hydration in living cells probed by Fourier transform infrared (FT-IR) spectroscopic imaging. <i>Analyst, The</i> , 2017 , 142, 2475-2483	5	22
110	A novel method for the production of crystalline micronised particles. <i>International Journal of Pharmaceutics</i> , 2010 , 388, 114-22	6.5	22
109	Dye Diffusion in Polymer Films Subjected to Supercritical CO2: Confocal Raman Microscopy and Modelling. <i>Macromolecular Chemistry and Physics</i> , 2005 , 206, 1077-1083	2.6	22
108	Comparison of pharmaceutical formulations: ATR-FTIR spectroscopic imaging to study drug-carrier interactions. <i>International Journal of Pharmaceutics</i> , 2015 , 495, 112-121	6.5	21
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