

Adam Voelkel

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200
papers

2,822
citations

24
h-index

40
g-index

214
ext. papers

3,139
ext. citations

4.2
avg, IF

5.51
L-index

#	Paper	IF	Citations
200	Inverse gas chromatography as a source of physiochemical data. <i>Journal of Chromatography A</i> , 2009 , 1216, 1551-66	4.5	189
199	Inverse Gas Chromatography: Characterization of Polymers, Fibers, Modified Silicas, and Surfactants. <i>Critical Reviews in Analytical Chemistry</i> , 1991 , 22, 411-439	5.2	105
198	Theoretical and experimental methods of determination of the breakthrough volume of SPE sorbents. <i>Talanta</i> , 2009 , 80, 614-21	6.2	78
197	Surface characterization of poly(lactic acid) and polycaprolactone by inverse gas chromatography. <i>Journal of Chromatography A</i> , 2007 , 1148, 86-91	4.5	67
196	Assessment of the surface chemistry of carbon blacks by TGA-MS, XPS and inverse gas chromatography using statistical chemometric analysis. <i>Applied Surface Science</i> , 2014 , 316, 315-323	6.7	65
195	Hansen solubility parameters for polyethylene glycols by inverse gas chromatography. <i>Journal of Chromatography A</i> , 2006 , 1132, 260-7	4.5	56
194	Solubility parameters of broad and narrow distributed oxyethylates of fatty alcohols. <i>Journal of Chromatography A</i> , 1993 , 645, 141-151	4.5	55
193	Inverse gas chromatography in characterization of surface. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2004 , 72, 205-207	3.8	48
192	Inverse gas chromatographic determination of solubility parameters of excipients. <i>International Journal of Pharmaceutics</i> , 2005 , 304, 11-7	6.5	47
191	New procedure for the determination of Hansen solubility parameters by means of inverse gas chromatography. <i>Journal of Chromatography A</i> , 2008 , 1195, 146-9	4.5	44
190	The solubility parameter for biomedical polymers-Application of inverse gas chromatography. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 127, 202-6	3.5	40
189	Activation of Magnesium Lignosulfonate and Kraft Lignin: Influence on the Properties of Phenolic Resin-Based Composites for Potential Applications in Abrasive Materials. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	39
188	Examination of surfaces of solid polymers by inverse gas chromatography: 1. Dispersive properties. <i>Polymer</i> , 1996 , 37, 455-462	3.9	39
187	Selection of solubility parameters for characterization of pharmaceutical excipients. <i>Journal of Chromatography A</i> , 2007 , 1171, 90-7	4.5	36
186	Identification of organic extractables from commercial resin-modified glass-ionomers using HPLC-MS. <i>Journal of Environmental Monitoring</i> , 2006 , 8, 750-8		33
185	Effect of denture cleansers on chemical and mechanical behavior of selected soft lining materials. <i>Dental Materials</i> , 2011 , 27, 281-90	5.7	32
184	Increments of some polarity parameters for polyoxyethylene glycol dialkyl ethers and for some of their sulphur analogues. <i>Journal of Chromatography A</i> , 1985 , 330, 61-70	4.5	31

183	Physicochemical Characterization of Functional Lignin-Silica Hybrid Fillers for Potential Application in Abrasive Tools. <i>Materials</i> , 2016 , 9,	3.5	31
182	Effect of particle type on the mechanisms of break up of nanoscale particle clusters. <i>Chemical Engineering Research and Design</i> , 2009 , 87, 468-473	5.5	30
181	Extraction properties of new polymeric sorbents in SPE/GC analysis of phenol and hydroquinone from water samples. <i>Chemosphere</i> , 2006 , 62, 890-8	8.4	29
180	Inverse gas chromatography as a tool for investigation of nanomaterials. <i>Journal of Colloid and Interface Science</i> , 2007 , 315, 768-71	9.3	26
179	Reactive Diazonium-Modified Silica Fillers for High-Performance Polymers. <i>Langmuir</i> , 2016 , 32, 11646-11654	5.4	25
178	Determination of surface free energy components for heterogeneous solids by means of inverse gas chromatography at finite concentrations. <i>Journal of Materials Chemistry</i> , 1998 , 8, 1953-1961		25
177	Examination of zeolites as fragrance carriers. <i>Microporous and Mesoporous Materials</i> , 2012 , 161, 106-114	5.3	24
176	Characterisation of mineral oil/polyester, mineral oil/polyolefin mixtures by inverse gas chromatography. <i>Journal of Materials Chemistry</i> , 2001 , 11, 1042-1046		24
175	Structure and nitrogen basicity of pyridine metal extractants. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1996 , 208, 75-86	1.5	24
174	Examination of surfaces of solid polymers by inverse gas chromatography: 2. Acid-base properties. <i>Polymer</i> , 1996 , 37, 4333-4344	3.9	23
173	Polarity of polyoxyethylene glycol dialkyl ethers and some sulphur analogues measured by gas chromatography. <i>Journal of Chromatography A</i> , 1985 , 333, 319-326	4.5	23
172	Characteristics of Multifunctional, Eco-Friendly Lignin-Al ₂ O ₃ Hybrid Fillers and Their Influence on the Properties of Composites for Abrasive Tools. <i>Molecules</i> , 2017 , 22,	4.8	21
171	Acid-based properties of silicas modified by organic compounds as determined by inverse gas chromatography. <i>Powder Technology</i> , 1998 , 95, 103-108	5.2	21
170	Comparison of three derivatization ways in the separation of phenol and hydroquinone from water samples. <i>Journal of Chromatography A</i> , 2004 , 1052, 233-6	4.5	21
169	The increase of apatite layer formation by the poly(3-hydroxybutyrate) surface modification of hydroxyapatite and tricalcium phosphate. <i>Materials Science and Engineering C</i> , 2014 , 34, 236-44	8.3	20
168	Application of HS-SPME in the determination of potentially toxic organic compounds emitted from resin-based dental materials. <i>Journal of Environmental Monitoring</i> , 2006 , 8, 377-83		20
167	The use of Flory-Huggins parameters as a measure of interactions in polymer-filler systems. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006 , 44, 1853-1862	2.6	20
166	Influence of prediction method of the second virial coefficient on inverse gas chromatographic parameters. <i>Journal of Chromatography A</i> , 1996 , 721, 139-145	4.5	20

165	Inverse gas chromatography in characterization of surfactants. <i>Journal of Chromatography A</i> , 1993 , 654, 135-141	4.5	20
164	Increments of the arithmetic retention index for non-ionic surfactants with a polyoxyethylene chain. <i>Journal of Chromatography A</i> , 1986 , 360, 43-52	4.5	20
163	Polarity of 1,3-bis[β -butoxyoligo(oxyethylene)]propan-2-ols as measured by reversed-phase gas chromatography. <i>Journal of Chromatography A</i> , 1987 , 398, 31-41	4.5	20
162	Surface properties and surface free energy of cellulosic etc mucoadhesive polymers. <i>Carbohydrate Polymers</i> , 2017 , 171, 152-162	10.3	19
161	Mechanical properties of experimental composites with different calcium phosphates fillers. <i>Materials Science and Engineering C</i> , 2017 , 78, 1101-1108	8.3	19
160	Study of a new resin-based composites containing hydroxyapatite filler using Raman and infrared spectroscopy. <i>Materials Chemistry and Physics</i> , 2014 , 145, 304-312	4.4	19
159	Influence of different fillers on phenolic resin abrasive composites. Comparison of inverse gas chromatographic and dynamic mechanical thermal analysis characteristics. <i>International Journal of Adhesion and Adhesives</i> , 2014 , 51, 81-86	3.4	19
158	Estimation of the work of adhesion by means of inverse gas chromatography for polymer complex systems. <i>International Journal of Adhesion and Adhesives</i> , 2012 , 38, 84-88	3.4	19
157	Polarity of aminoether alcohols and their ethers measured by reversed-phase gas chromatography. <i>Journal of Chromatography A</i> , 1987 , 391, 373-382	4.5	19
156	Role of Hansen solubility parameters in solid phase extraction. <i>Journal of Chromatography A</i> , 2010 , 1217, 5564-70	4.5	18
155	Inverse gas chromatography. Relationship between mass activity coefficient and flory-huggins interaction parameter in the examination of petroleum pitches. <i>Chromatographia</i> , 1997 , 44, 197-204	2.1	18
154	Principal component analysis of polymer-solvent and filler-solvent interactions by inverse gas chromatography. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005 , 260, 29-37	5.1	18
153	Inverse gas chromatographic determination of solubility parameter and binary parameters of β -diamino oligoethers. <i>Journal of Chromatography A</i> , 1994 , 669, 89-95	4.5	18
152	Stability of simulated body fluids such as blood plasma, artificial urine and artificial saliva. <i>Microchemical Journal</i> , 2017 , 134, 197-201	4.8	17
151	Assessment of the chemical changes during storage of phenol-formaldehyde resins pyrolysis gas chromatography mass spectrometry, inverse gas chromatography and Fourier transform infra red methods. <i>Journal of Chromatography A</i> , 2014 , 1359, 255-61	4.5	17
150	Preparation and examination of monolithic in-needle extraction (MINE) device for the direct analysis of liquid samples. <i>Analytica Chimica Acta</i> , 2013 , 776, 50-6	6.6	17
149	Characterization of the interactions in polymer-filler systems by inverse gas chromatography. <i>Journal of Chromatography A</i> , 2002 , 969, 255-9	4.5	17
148	Principal component analysis of polarity and interaction parameters in inverse gas chromatography. <i>Journal of Chromatographic Science</i> , 2001 , 39, 375-84	1.4	17

147	Calcium forms of zeolites A and X as fillers in dental restorative materials with remineralizing potential. <i>Microporous and Mesoporous Materials</i> , 2020 , 294, 109899	5.3	17
146	Surface properties of rutile and its modified form - Part 1. Surface characteristics studied by means of inverse gas chromatography. <i>Journal of Adhesion Science and Technology</i> , 1997 , 11, 1513-1529	2	16
145	Characterization of dispersive and acid-base properties of crosslinked polymers by inverse gas chromatography. <i>Polymer</i> , 1993 , 34, 3109-3111	3.9	16
144	Retention indices and thermodynamic functions of solution for model non-ionic surfactants in standard stationary phases determined by gas chromatography. <i>Journal of Chromatography A</i> , 1987 , 387, 95-104	4.5	16
143	Dispersive force parameters as a measure of the polarity of surfactants used as stationary phases in gas-liquid chromatography. <i>Journal of Chromatography A</i> , 1988 , 435, 29-41	4.5	16
142	Diazonium-modified zeolite fillers. Effect of diazonium substituent position on the filler surface modification and the mechanical properties of phenolic/zeolite composites. <i>International Journal of Adhesion and Adhesives</i> , 2018 , 85, 157-164	3.4	15
141	Surface energy of bovine dentin and enamel by means of inverse gas chromatography. <i>Materials Science and Engineering C</i> , 2015 , 49, 382-389	8.3	15
140	Characterization of fillers used in abrasive articles by means of inverse gas chromatography and principal component analysis. <i>International Journal of Adhesion and Adhesives</i> , 2007 , 27, 188-194	3.4	15
139	Polarity of oligooxyethylene derivatives of alcohols, thio alcohols and alkylamines as measured by gas chromatography. <i>Journal of Chromatography A</i> , 1988 , 450, 291-308	4.5	15
138	Polarity of some individual derivatives of β -diamino-oligoethers as measured by gas chromatography. <i>Journal of Chromatography A</i> , 1988 , 448, 219-232	4.5	15
137	Application of inverse gas chromatography in physicochemical characterization of phenolic resin adhesives. <i>Journal of Chromatography A</i> , 2014 , 1368, 199-203	4.5	14
136	Characterization of zeolites as potential new generation fillers in abrasive articles. Physicochemical properties of zeolites and their interactions with resins. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010 , 372, 80-85	5.1	14
135	Characterization of the interactions in polymer/silica systems by inverse gas chromatography. <i>Macromolecular Symposia</i> , 2001 , 169, 45-55	0.8	14
134	Polarity of 1,3-bis[alkoxyoligo(oxyethylene)]propan-2-ols as measured by reversed-phase gas chromatography. <i>Journal of Chromatography A</i> , 1987 , 409, 29-41	4.5	14
133	Polarity and hydrophile-lipophile balance of model hydroxyoximes and their intermediates as determined by reverse-phase gas chromatography. <i>Journal of Chromatography A</i> , 1987 , 402, 55-64	4.5	14
132	Examination of surfaces of solid polymers by inverse gas chromatography. 3. The influence of the annealing time. <i>Polymer</i> , 1998 , 39, 3499-3506	3.9	13
131	Use of Flory-Huggins parameters in the characterization of polymer-filler compositions. <i>Journal of Applied Polymer Science</i> , 2008 , 107, 2877-2882	2.9	13
130	Hydrophile-lipophile balance of hydroxyoximes in McGowan scale and their partition and extraction properties. <i>Journal of Chemical Technology and Biotechnology</i> , 2007 , 54, 19-26	3.5	13

129	Use of topological indices of polychlorinated biphenyls in structure-retention relationships. <i>Journal of Chromatography A</i> , 2003 , 1018, 63-71	4.5	13
128	Determination of Hansen solubility parameters of solid materials by inverse gas-solid chromatography. <i>Acta Chromatographica</i> , 2008 , 20, 1-14	1.5	13
127	Functional lignin-SiO ₂ hybrids as potential fillers for phenolic binders. <i>Journal of Adhesion Science and Technology</i> , 2016 , 30, 1031-1048	2	12
126	Optimization of the in-needle extraction device for the direct flow of the liquid sample through the sorbent layer. <i>Talanta</i> , 2014 , 129, 392-7	6.2	12
125	Estimation of the breakthrough volume of selected steroids for C-18 solid-phase extraction sorbent using retention data from micro-thin layer chromatography. <i>Journal of Separation Science</i> , 2013 , 36, 1104-11	3.4	12
124	Inverse Gas Chromatographic Examination of Polymer Composites. <i>Open Chemistry</i> , 2015 , 13,	1.6	12
123	Relationship between surface properties determined by inverse gas chromatography and ibuprofen release from hybrid materials based on fumed silica. <i>International Journal of Pharmaceutics</i> , 2013 , 441, 441-8	6.5	12
122	The influence of denture cleansers on the release of organic compounds from soft lining materials. <i>Journal of Environmental Monitoring</i> , 2008 , 10, 770-4		12
121	The use of Flory-Huggins parameters to characterization of polymer/filler interactions. <i>Macromolecular Symposia</i> , 2003 , 194, 305-312	0.8	12
120	Ketoimino groups as silica surface modifiers. <i>Journal of Chromatography A</i> , 2002 , 969, 133-41	4.5	12
119	Inverse gas chromatography and other chromatographic techniques in the examination of engine oils. <i>Journal of Chromatography A</i> , 2002 , 969, 181-91	4.5	12
118	Physico-chemical characterization of chemically bonded stationary phases including metal complexes by inverse gas chromatography. <i>Journal of Chromatography A</i> , 1995 , 690, 83-91	4.5	12
117	Surface properties of copolymers and terpolymers of styrene as studied by inverse gas chromatography. <i>Polymer</i> , 1995 , 36, 3503-3510	3.9	12
116	The solubility parameters of fluorine-containing oxyethylates. <i>Journal of Fluorine Chemistry</i> , 1994 , 67, 75-81	2.1	12
115	Solution properties of amorphous co- and terpolymers of styrene as examined by inverse gas chromatography. <i>Journal of Chromatography A</i> , 1995 , 715, 127-134	4.5	12
114	Calcium release from experimental dental materials. <i>Materials Science and Engineering C</i> , 2016 , 68, 213-220		12
113	Diazonium Modification of Inorganic and Organic Fillers for the Design of Robust Composites: A Review. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021 , 31, 1-21	3.2	12
112	Inverse gas chromatography investigation of oxidized polyolefins: surface properties. <i>Journal of Chromatography A</i> , 2014 , 1337, 194-201	4.5	11

111	Application of different analytical methods used in the study of the cross-linking of resins in intermediate-product used in manufacturing of abrasive articles. <i>Journal of Applied Polymer Science</i> , 2009 , 112, 3305-3312	2.9	11
110	Dispersive surface properties of glass-ionomer cements determined by inverse gas chromatography. <i>Applied Surface Science</i> , 2005 , 245, 135-140	6.7	11
109	Zeolite fillers for resin-based composites with remineralizing potential. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 210, 126-135	4.4	11
108	Modification of Ti6Al4V surface by diazonium compounds. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 191, 27-35	4.4	10
107	Estimation of polyurethane-carbon black interactions by means of inverse gas chromatography. <i>Journal of Chromatography A</i> , 2013 , 1314, 249-54	4.5	10
106	Characterization of light-cured, dental-resin-based biocomposites. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	10
105	Effectiveness of in-needle extraction device for liquid samples. <i>Analytica Chimica Acta</i> , 2012 , 751, 182-8	6.6	10
104	Optimization of SPE/GC/HPLC Analytical Procedure for Determination of Phenol, Quinones, and Carboxylic Acids in Water Samples. <i>ISRN Chromatography</i> , 2012 , 2012, 1-7		10
103	Kraft lignin/cubic boron nitride hybrid materials as functional components for abrasive tools. <i>International Journal of Biological Macromolecules</i> , 2019 , 122, 88-94	7.9	10
102	Preparation of hybrid materials for controlled drug release. <i>Drug Development and Industrial Pharmacy</i> , 2016 , 42, 1058-65	3.6	9
101	An in-needle extraction technique in determination of organic compounds released from dental tissue conditioners incubated in artificial saliva. <i>Talanta</i> , 2014 , 129, 203-8	6.2	9
100	Solubility parameter used to predict the effectiveness of monolithic in-needle extraction (MINE) device for the direct analysis of liquid samples. <i>Analytica Chimica Acta</i> , 2013 , 805, 54-9	6.6	9
99	Characterization of hybrid materials by means of inverse gas chromatography and chemometrics. <i>Journal of Pharmaceutical Sciences</i> , 2013 , 102, 1524-31	3.9	9
98	Physicochemical Measurements (Inverse Gas Chromatography) 2012 , 477-494		9
97	Inverse gas chromatographic and chemometric tools for determination of interactions between the components of polymeric composition. <i>Analytica Chimica Acta</i> , 2006 , 559, 221-226	6.6	9
96	Solubility and polarity parameters for pyridinecarboxamides and their complexes with copper(II) as determined by inverse gas chromatography. <i>Journal of Chromatography A</i> , 1996 , 740, 253-261	4.5	9
95	Structural descriptors in organic chemistry—new topological parameter based on electrotopological state of graph vertices. <i>Computers & Chemistry</i> , 1994 , 18, 1-4		9
94	Measurement of the polarity of alkyl derivatives of diazapolyoxyethylene ethers by gas chromatography. <i>Journal of Chromatography A</i> , 1988 , 454, 51-63	4.5	9

93	Influence of experimental conditions upon polarity parameters as measured by gas chromatography. <i>Journal of Chromatography A</i> , 1988 , 457, 73-84	4.5	9
92	Polymer-ceramic Monolithic In-Needle Extraction (MINE) device: Preparation and examination of drug affinity. <i>Materials Science and Engineering C</i> , 2016 , 68, 70-77	8.3	9
91	Examination of the chemical changes in cured phenol-formaldehyde resins during storage. <i>Journal of Chromatography A</i> , 2016 , 1441, 106-15	4.5	9
90	Poly(vinyl alcohol)/hydroxyapatite Monolithic In-Needle Extraction (MINE) device: Preparation and examination of drug affinity. <i>European Journal of Pharmaceutical Sciences</i> , 2017 , 105, 195-202	5.1	8
89	Characterization of ceramic hydroxyapatite surface by inverse liquid chromatography in aquatic systems. <i>Talanta</i> , 2016 , 147, 44-9	6.2	8
88	Similarity and grouping of perlite and zeolite abrasive fillers: A replacement test. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 3839-3847	2.9	8
87	Influence of relative humidity on the properties of examined materials by means of inverse gas chromatography. <i>Journal of Chromatography A</i> , 2013 , 1271, 201-6	4.5	8
86	Inverse gas chromatography in the examination of organic compounds. <i>Journal of Chromatography A</i> , 1998 , 795, 349-357	4.5	8
85	AcidBase surface properties of glass-ionomers determined by IGC. <i>Applied Surface Science</i> , 2005 , 245, 149-154	6.7	8
84	Selectivity of solid-phase extraction phases in the determination of biodegradation products. <i>Journal of Chromatography A</i> , 2001 , 918, 145-51	4.5	8
83	The use of solubility parameters in characterization of titanate modified silica gel by inverse gas chromatography. <i>Chromatographia</i> , 2000 , 51, 608-614	2.1	8
82	Topological indices as structural parameters. <i>Journal of Chromatography A</i> , 1991 , 547, 247-257	4.5	8
81	Carbon black modified with 4-hydroxymethylbenzenediazonium salt as filler for phenol-formaldehyde resins and abrasive tools. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48160	2.9	8
80	Interactions in PEG/Aerosil \square and PLA/Aerosil \square composites described by IGC-determined Flory-Huggins χ 3 parameter. <i>Journal of Polymer Research</i> , 2014 , 21, 1	2.7	7
79	The Examination of the Degree of Coverage of the Fused Alumina Abrasive by Resol Wetting Agent by Inverse GC. <i>Chromatographia</i> , 2009 , 70, 1393-1397	2.1	7
78	Inverse gas chromatography for the examination of fractions separated from oil vacuum distillation residues. <i>Journal of Chromatography A</i> , 1997 , 768, 271-281	4.5	7
77	Determination of Hansen Solubility Parameters by Means of Gas-Solid Inverse Gas Chromatography. <i>Adsorption Science and Technology</i> , 2008 , 26, 93-102	3.6	7
76	Chemical Heterogeneity of Metal Oxide Surfaces as Studied by Inverse Gas Chromatography at Finite Concentrations. <i>Adsorption Science and Technology</i> , 1996 , 14, 189-198	3.6	7

75	Mechanically robust and thermally stable abrasive tools from phenolic resins reinforced with diazonium-modified zeolites. <i>Polymer Composites</i> , 2019 , 40, 3209-3219	3	7
74	Active diazonium-modified zeolite fillers for methacrylate-based composites. <i>Composite Interfaces</i> , 2019 , 26, 643-657	2.3	7
73	The effect of lignin-alumina hybrid additive on the properties of composition used in abrasive tools. <i>International Journal of Biological Macromolecules</i> , 2020 , 161, 531-538	7.9	6
72	Experimental and in silico investigations of organic phosphates and phosphonates sorption on polymer-ceramic monolithic materials and hydroxyapatite. <i>European Journal of Pharmaceutical Sciences</i> , 2016 , 93, 295-303	5.1	6
71	Solubility parameter as polarity measure for high-boiling oil products. <i>Fuel</i> , 2014 , 122, 310-315	7.1	6
70	Sorption, solubility, and mass changes of hydroxyapatite-containing composites in artificial saliva, food simulating solutions, tea, and coffee. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	6
69	Effect of impregnating agent and relative humidity on surface characteristics of sorbents determined by inverse gas chromatography. <i>Journal of Chromatography A</i> , 2013 , 1288, 101-4	4.5	6
68	Characterisation of hydroxyapatite surface modified by poly(ethylene glycol) and poly(hydroxyethyl methacrylate) grafting. <i>Chemical Papers</i> , 2013 , 67,	1.9	6
67	Inverse Gas Chromatographic Characterization of Aluminosilicates as Fillers for Abrasive Articles. <i>Chromatographia</i> , 2012 , 75, 353-360	2.1	6
66	Reply to comments and corrections. <i>Polymer</i> , 1994 , 35, 1789-1790	3.9	6
65	Properties of topological indices as structural parameters for compounds containing oligoxyethylene chain(s). <i>Journal of Chromatography A</i> , 1991 , 464, 251-263	4.5	6
64	Structural descriptors in organic chemistry. Topological indices of isoquinoline derivatives. <i>Computational and Theoretical Chemistry</i> , 1993 , 279, 217-222		6
63	Novel highly efficient ionic liquid-functionalized silica for toxic metals removal. <i>Separation and Purification Technology</i> , 2021 , 265, 118483	8.3	6
62	Influence of diazonium and surfactant modification of the mesoporous material on its adsorption properties. <i>Chemical Papers</i> , 2020 , 74, 929-938	1.9	6
61	The effect of bonding system application on surface characteristics of bovine dentin and enamel. <i>Materials Science and Engineering C</i> , 2017 , 76, 1224-1231	8.3	5
60	The influence of direct compression powder blend transfer method from the container to the tablet press on product critical quality attributes: a case study. <i>Drug Development and Industrial Pharmacy</i> , 2017 , 43, 911-916	3.6	5
59	Quantifying non-specific interactions via liquid chromatography. <i>Analyst, The</i> , 2019 , 144, 1632-1641	5	5
58	Self-emulsifying drug delivery systems with atorvastatin adsorbed on solid carriers: formulation and in vitro drug release studies. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 577, 281-290	5.1	5

57	Improvement of mechanical properties of silica/phenolic composites and abrasive tools by modification of filler using diazonium salt with hydroxymethyl groups. <i>Polymer Testing</i> , 2019 , 75, 373-379	4.5	5
56	Calcium-Rich 13X Zeolite as a Filler with Remineralizing Potential for Dental Composites. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 3843-3854	5.5	5
55	The possibility of the polyurethane layer attachment to the unmodified and diazonium-modified titanium alloy applied as potential biomaterial. <i>Surface and Coatings Technology</i> , 2020 , 385, 125389	4.4	5
54	Best conditions for biodegradation of diesel oil by chemometric tools. <i>Brazilian Journal of Microbiology</i> , 2014 , 45, 117-26	2.2	5
53	Surface properties of titanate-modified silicagel as measured by inverse gas chromatography. <i>Journal of Materials Chemistry</i> , 2001 , 11, 1288-1293		5
52	Polarity of butylene and ethylene oxides copolymers. <i>Colloid and Polymer Science</i> , 1979 , 257, 494-501	2.4	5
51	Improving the abrasion resistance of Ti6Al4V alloy by modifying its surface with a diazonium salt and attaching of polyurethane. <i>Scientific Reports</i> , 2020 , 10, 19289	4.9	5
50	Inverse gas chromatography in the examination of surface properties of experimental dental composites. <i>Polymer Testing</i> , 2020 , 90, 106697	4.5	4
49	Calcium zeolites as intelligent carriers in controlled release of bisphosphonates. <i>International Journal of Pharmaceutics</i> , 2020 , 578, 119117	6.5	4
48	Surface properties of rutile and its modified form - Part 2. Characteristics of the water/solid interface as examined by means of 1H-NMR spectroscopy with bulk freezing. <i>Journal of Adhesion Science and Technology</i> , 1997 , 11, 1531-1547	2	4
47	Structure-Activity relationships for hydroxyoxime metal extractants. <i>Journal of Chemical Technology and Biotechnology</i> , 2007 , 56, 279-288	3.5	4
46	Chromatographic and non-chromatographic characterization of poly-olefins. <i>Journal of Synthetic Lubrication: Research, Development and Application of Synthetic Lubricants and Functional Fluids</i> , 2007 , 24, 91-100		4
45	Application of inverse gas chromatography to the examination of annealing processes of semi-synthetic base oils. <i>Journal of Chromatography A</i> , 2002 , 982, 245-54	4.5	4
44	Properties of zirconate modificates of silica gel as examined by inverse gas chromatography. <i>Macromolecular Symposia</i> , 2001 , 169, 35-44	0.8	4
43	Attempts to use Laffort's solubility factors as polarity parameters for organic compounds in inverse gas chromatography. <i>Journal of Chromatography A</i> , 1991 , 555, 205-210	4.5	4
42	Polarity of broad and narrow distributed ethoxylates of fatty alcohols. <i>JAOCs, Journal of the American Oil Chemists Society</i> , 1993 , 70, 711-716	1.8	4
41	Characteristics of the surface layer of selected glass-ionomer cements by inverse gas chromatography in increased humidity conditions. <i>Polimery</i> , 2006 , 51, 280-284	3.4	4
40	Characterization of mesoporous aluminosilicate materials by means of inverse liquid chromatography. <i>Journal of Chromatography A</i> , 2020 , 1610, 460544	4.5	4

39	The influence of ion exchange in zeolite X on the properties of phenol-formaldehyde composites. <i>International Journal of Adhesion and Adhesives</i> , 2020 , 100, 102625	3.4	3
38	Inverse liquid chromatography as a tool for characterisation of the surface layer of ceramic biomaterials. <i>Journal of Chromatography A</i> , 2016 , 1468, 116-125	4.5	3
37	Quantitative criteria for needle trap device selection. <i>Journal of Chromatography A</i> , 2013 , 1278, 181-3	4.5	3
36	Application of inverse gas chromatography in the characterization of raw material used in manufacturing of abrasive materials. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006 , 280, 177-181	5.1	3
35	Inverse gas chromatography in the examination of modified fillers. <i>Macromolecular Symposia</i> , 2003 , 194, 27-38	0.8	3
34	Elimination of adsorption effects of polarity parameters determined by inverse gas chromatography. <i>Journal of Chromatography A</i> , 1995 , 693, 315-323	4.5	3
33	Structure-Basicity relationships for pyridine extractants. <i>Journal of Chemical Technology and Biotechnology</i> , 1995 , 62, 233-240	3.5	3
32	Inverse gas chromatography: the use of Laffort solubility factors and topological indices in structure-polarity relationships. <i>Journal of Chromatography A</i> , 1992 , 623, 83-91	4.5	3
31	Solubility and polarity parameters of polyoxyethylene glycol dialkyl ethers. <i>Journal of Pharmaceutical Sciences</i> , 1988 , 77, 893-7	3.9	3
30	Calcium montmorillonite and montmorillonite with hydroxyapatite layer as fillers in dental composites with remineralizing potential. <i>Applied Clay Science</i> , 2020 , 198, 105822	5.2	3
29	Synthesis and Characterization of Low-Cost Cresol-Based Benzoxazine Resins as Potential Binders in Abrasive Composites. <i>Materials</i> , 2020 , 13,	3.5	3
28	Assessment of resin adhesives aging by means of rheological parameters, Inverse Gas Chromatography, and FTIR. <i>Journal of Adhesion Science and Technology</i> , 2016 , 30, 56-74	2	3
27	A long-term controlled release of the drug for osteoporosis from the surface of titanium implants coated with calcium zeolite. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 5718-5725	7.8	3
26	Additives for Abrasive Materials 2018 ,		3
25	New Mesoporous Aluminosilicates Used for Solid-phase Extraction of Hydrocarbons and Fragrance Compounds. <i>Analytical Letters</i> , 2018 , 51, 2026-2038	2.2	2
24	Application of Inverse Liquid Chromatography for Surface Characterization of Biomaterials. <i>Chromatographia</i> , 2016 , 79, 473-480	2.1	2
23	Evaluation of drug-carrier interactions in quaternary powder mixtures containing perindopril tert-butylamine and indapamide. <i>International Journal of Pharmaceutics</i> , 2016 , 503, 29-35	6.5	2
22	Siliceous-based monolithic materials coated with a hydroxyapatite layer: Preparation and investigation of drug affinity by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2019 , 50, 1722-1730	2.3	2

21	Inverse Gas Chromatography in Characterization of Composites Interaction 2012 ,		2
20	Inverse gas chromatography in the monitoring of bright stocks annealing. Application of the heat of solution and the heat of mixing. <i>Analyst, The</i> , 1998 , 123, 2351-2355	5	2
19	The Use of Flory-Huggins Parameters in Characterization of Polymer-Filler Compositions. <i>Materials Science Forum</i> , 2008 , 587-588, 667-671	0.4	2
18	Influence of monolayer of titanium and zirconium coupling agents on dispersive and acidBase properties of modified silica gel. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002 , 208, 177-185	5.1	2
17	Inverse Gas Chromatography in the Examination of Modified Highly Dispersed Silicas. <i>Adsorption Science and Technology</i> , 1999 , 17, 173-179	3.6	2
16	Polarity of fluorine-containing oxyethylates as determined by inverse gas chromatography. <i>Journal of Fluorine Chemistry</i> , 1993 , 64, 177-186	2.1	2
15	Influence of Change of Si/Al Ratio on the Synthesis of Mesoporous Aluminosilicates and Flexural Strength of Novolac Composites. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019 , 29, 1439-1446	3.2	2
14	Determination of bisphosphonates anti-resorptive properties based on three forms of ceramic materials: Sorption and release process evaluation. <i>Journal of Pharmaceutical Analysis</i> , 2021 , 11, 364-373 ¹⁴		1
13	Surface Analysis of ClayPolymer Nanocomposites 2017 , 363-411		1
12	Surface modification of hydroxyapatite with polyhedral oligomeric silsesquioxane. <i>Reactive and Functional Polymers</i> , 2022 , 170, 105131	4.6	1
11	Evaluation of the physico-chemical properties of hydrocarbons-exposed bacterial biomass. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 196, 111310	6	1
10	Silica-filled methacrylic composites with extremely high compressive strength. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 116, 104319	4.1	1
9	The Physicochemical Characteristics of Prosthetic Materials and Their Influence on Their Clinical Properties. <i>Chromatographia</i> , 2017 , 80, 1761-1769	2.1	0
8	Chromatographic Techniques for Characterization of Carbons and Carbon Composites 2020 , 256-272		0
7	Inverse gas chromatography in the examination of adhesion between tooth hard tissues and restorative dental materials. <i>Scientific Reports</i> , 2020 , 10, 13476	4.9	0
6	Risedronate extraction from artificial urine with using monolithic polymer-based anion exchangers. <i>Journal of the Iranian Chemical Society</i> , 2019 , 16, 93-100	2	0
5	Physicochemical measurements (inverse gas chromatography) 2021 , 561-579		0
4	New Essential Events in Modern Applications of Inverse Gas Chromatography 2015 , 979-998		

3 Inverse Gas Chromatography **2014**, 327-346

2 Adsorption Chromatography in the Examination of Heavy Oil Residues [Comparison of Standard Methods. *Adsorption Science and Technology*, **1998**, 16, 697-704 3.6

1 Synthesis, characterization, and possible application as sorbents of new low-cost aluminosilicate materials with different Si/Al ratios. *International Journal of Materials Research*, **2019**, 110, 551-562 0.5