

Michal Kohout

List of Publications by Year in descending order

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77
papers

1,137
citations

361296

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526166

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docs citations

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times ranked

1025
citing authors

#	ARTICLE	IF	CITATIONS
1	Photochromic spiropyran-based liquid crystals. <i>Journal of Molecular Liquids</i> , 2022, 346, 117842.	2.3	11
2	Chiral separation of dipeptides on Cinchona-based zwitterionic chiral stationary phases under buffer-free reversed-phase conditions. <i>Chirality</i> , 2022, 34, 1065-1077.	1.3	3
3	Optically active polyimides with different thermal histories of their preparation. <i>Chirality</i> , 2022, 34, 1151-1161.	1.3	1
4	Laterally substituted biphenyl benzoates – synthesis and mesomorphic properties. <i>Liquid Crystals</i> , 2021, 48, 526-536.	0.9	4
5	Strong cation- and zwitterion-exchange-type mixed-mode stationary phases for separation of pharmaceuticals and biogenic amines in different chromatographic modes. <i>Journal of Chromatography A</i> , 2021, 1635, 461751.	1.8	13
6	Structural spectroscopic study of enantiomerically pure synthetic cathinones and their major metabolites. <i>New Journal of Chemistry</i> , 2021, 45, 850-860.	1.4	10
7	Mesomorphic properties of non-symmetric bent-core liquid crystals with a lateral substituent in the apex position. <i>Liquid Crystals</i> , 2021, 48, 1010-1024.	0.9	2
8	Design and synthesis of naphthalene-based chiral strong cation exchangers and their application for chiral separation of basic drugs. <i>Journal of Separation Science</i> , 2021, 44, 3348-3356.	1.3	4
9	Pharmacokinetic, pharmacodynamic, and behavioural studies of deschloroketamine (DCK) in Wistar rats. <i>British Journal of Pharmacology</i> , 2021, , .	2.7	3
10	Influence of linking units on the photo responsive studies of azobenzene liquid Crystals: Application in optical storage devices. <i>Journal of Molecular Liquids</i> , 2021, 339, 116744.	2.3	5
11	Rapid enantioselective amino acid analysis by ultra-high performance liquid chromatography-mass spectrometry combining 6-aminoquinolyl-N-hydroxysuccinimidyl carbamate derivatization with core-shell quinine carbamate anion exchanger separation. <i>Journal of Chromatography Open</i> , 2021, 1, 100004.	0.8	7
12	Photosensitive Bent-Core Liquid Crystals with Laterally Substituted Azobenzene Unit. <i>Crystals</i> , 2021, 11, 1265.	1.0	4
13	Preparation of PSEBS membranes bearing (S)-(α)-methylbenzylamine as chiral selector. <i>European Polymer Journal</i> , 2020, 122, 109381.	2.6	17
14	Separation of racemic compound by nanofibrous composite membranes with chiral selector. <i>Journal of Membrane Science</i> , 2020, 596, 117728.	4.1	30
15	The Role of Substitution in the Apex Position of the Bent-Core on Mesomorphic Properties of New Series of Liquid Crystalline Materials. <i>Crystals</i> , 2020, 10, 735.	1.0	2
16	Ketone transformation as a pathway to inherently chiral rigidified calix[4]arenes. <i>Chemical Communications</i> , 2020, 56, 12773-12776.	2.2	6
17	Gradient supercritical fluid chromatography coupled to mass spectrometry with a gradient flow of make-up solvent for enantioseparation of cathinones. <i>Journal of Chromatography A</i> , 2020, 1625, 461286.	1.8	16
18	Regioselective formation of the quinazoline moiety on the upper rim of calix[4]arene as a route to inherently chiral systems. <i>New Journal of Chemistry</i> , 2020, 44, 6490-6500.	1.4	6

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19	Photosensitive bent-core nematic liquid crystals with various linking units in the side arms: Structure-properties relationships. <i>Journal of Molecular Liquids</i> , 2020, 306, 112743.	2.3	17
20	Chiral Photoresponsive Liquid Crystalline Materials Derived from Cyanoazobenzene Central Core: Effect of UV Light Illumination on Mesomorphic Behavior. <i>Crystals</i> , 2020, 10, 1161.	1.0	6
21	Synthesis of upper rim-double-bridged calix[4]arenes bearing seven membered rings and related compounds. <i>RSC Advances</i> , 2019, 9, 22017-22030.	1.7	9
22	Evaluation of silica from different vendors as the solid support of anion-exchange chiral stationary phases by means of preferential sorption and liquid chromatography. <i>Journal of Separation Science</i> , 2019, 42, 3653-3661.	1.3	4
23	Evaluation of superficially porous particle based zwitterionic chiral ion exchangers against fully porous particle benchmarks for enantioselective ultra-high performance liquid chromatography. <i>Journal of Chromatography A</i> , 2019, 1603, 130-140.	1.8	32
24	Determination of Optical Purity of Lactic Acid-Based Chiral Liquid Crystals and Corresponding Building Blocks by Chiral High-Performance Liquid Chromatography and Supercritical Fluid Chromatography. <i>Molecules</i> , 2019, 24, 1099.	1.7	19
25	Nitrosobenzene: Reagent for the Mitsunobu Esterification Reaction. <i>ACS Omega</i> , 2019, 4, 5012-5018.	1.6	5
26	Methylone and pentylone: structural analysis of new psychoactive substances. <i>Forensic Toxicology</i> , 2019, 37, 366-377.	1.4	19
27	Light Tunable Gratings Based on Flexoelectric Effect in Photoresponsive Bent-Core Nematics. <i>Advanced Optical Materials</i> , 2019, 7, 1801790.	3.6	21
28	The effect of the length of terminal n-alkyl carboxylate chain on self-assembling and photosensitive properties of chiral lactic acid derivatives. <i>Journal of Molecular Liquids</i> , 2019, 275, 829-838.	2.3	25
29	Structure determination of butylone as a new psychoactive substance using chiroptical and vibrational spectroscopies. <i>Chirality</i> , 2018, 30, 548-559.	1.3	16
30	Effect of different immobilization strategies on chiral recognition properties of Cinchona-based anion exchangers. <i>Journal of Separation Science</i> , 2018, 41, 1355-1364.	1.3	18
31	Silica gel-immobilized multidisciplinary materials applicable in stereoselective organocatalysis and HPLC separation. <i>RSC Advances</i> , 2018, 8, 1174-1181.	1.7	8
32	Comparative study on the liquid chromatographic enantioseparation of cyclic α -amino acids and the related cyclic α -aminohydroxamic acids on Cinchona alkaloid-based zwitterionic chiral stationary phases. <i>Journal of Separation Science</i> , 2018, 41, 1216-1223.	1.3	14
33	Exploring the enantiorecognition mechanism of Cinchona alkaloid-based zwitterionic chiral stationary phases and the basic trans- <i>paroxetine</i> enantiomers. <i>Journal of Separation Science</i> , 2018, 41, 1199-1207.	1.3	15
34	Synthesis, absolute configuration and <i>in vitro</i> cytotoxicity of deschloroketamine enantiomers: rediscovered and abused dissociative anaesthetic. <i>New Journal of Chemistry</i> , 2018, 42, 19360-19368.	1.4	14
35	Chemoselective oxidation of phenoxathiin-based thiacalix[4]arene and the stereoselective alkylation of products. <i>New Journal of Chemistry</i> , 2018, 42, 20074-20086.	1.4	6
36	Azodicarboxylate-free esterification with triphenylphosphine mediated by flavin and visible light: method development and stereoselectivity control. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 6809-6817.	1.5	30

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37	Comparison of small size fully porous particles and superficially porous particles of chiral anion-exchange type stationary phases in ultra-high performance liquid chromatography: effect of particle and pore size on chromatographic efficiency and kinetic performance. <i>Journal of Chromatography A</i> , 2018, 1569, 149-159.	1.8	28
38	Enantioseparation of Chiral Sulfoxides on Amylose-Based Columns: Comparison of Normal Phase Liquid Chromatography and Supercritical Fluid Chromatography. <i>Chromatographia</i> , 2017, 80, 547-557.	0.7	14
39	Photocatalytic esterification under Mitsunobu reaction conditions mediated by flavin and visible light. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 1970-1975.	1.5	32
40	X-ray powder diffraction data for (<i>S</i>)-Deschloroketamine hydrochloride, C ₁₃ H ₁₈ ClNO. <i>Powder Diffraction</i> , 2017, 32, 193-195.	0.4	5
41	Inherently Chiral Upper-Rim-Bridged Calix[4]arenes Possessing a Seven Membered Ring. <i>Organic Letters</i> , 2017, 19, 2933-2936.	2.4	22
42	Regio-/stereoselective formation of monosulfoxides from thiacalix[4]arenes in all possible conformations. <i>Tetrahedron Letters</i> , 2017, 58, 1687-1691.	0.7	6
43	Bent-core liquid crystals with a 2-substituted 3-hydroxybenzoic acid central core. <i>Liquid Crystals</i> , 2017, 44, 1306-1315.	0.9	3
44	Copper nanoparticles in glycerol-polyvinyl alcohol matrix: In situ preparation, stabilisation and antimicrobial activity. <i>Journal of Alloys and Compounds</i> , 2017, 697, 147-155.	2.8	21
45	Consequences of transition from liquid chromatography to supercritical fluid chromatography on the overall performance of a chiral zwitterionic ion-exchanger. <i>Journal of Chromatography A</i> , 2017, 1517, 165-175.	1.8	35
46	Photosensitive bent-core liquid crystals based on methyl substituted 3-hydroxybenzoic acid. <i>RSC Advances</i> , 2017, 7, 35805-35813.	1.7	9
47	Effect of alkyl chain length in the terminal ester group on mesomorphic properties of new chiral lactic acid derivatives. <i>Liquid Crystals</i> , 2016, 43, 1472-1485.	0.9	32
48	Mechanistic considerations of enantioselective recognition on novel Cinchona alkaloid-based zwitterionic chiral stationary phases from the aspect of the separation of trans-paroxetine enantiomers as model compounds. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 124, 164-173.	1.4	39
49	Absolute configuration of the antimalarial erythro-mefloquine – vibrational circular dichroism and X-ray diffraction studies of mefloquine and its thiourea derivative. <i>RSC Advances</i> , 2016, 6, 81461-81465.	1.7	8
50	Bent-core liquid crystals based on 6-substituted 3-hydroxybenzoic acid: the role of substitution and linkage group orientation on mesomorphic properties. <i>Liquid Crystals</i> , 2016, 43, 1889-1900.	0.9	8
51	All-organic liquid crystalline radicals with a spin unit in the outer position of a bent-core system. <i>Journal of Materials Chemistry C</i> , 2016, 4, 11540-11547.	2.7	15
52	Synthesis of inherently chiral calixarenes via direct mercuration of the partial cone conformation. <i>Chemical Communications</i> , 2016, 52, 2366-2369.	2.2	15
53	Chiral separation of new designer drugs (Cathinones) on chiral ion-exchange type stationary phases. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 120, 306-315.	1.4	30
54	Bent-shaped liquid crystals based on 4-substituted 3-hydroxybenzoic acid central core – Part II. <i>Liquid Crystals</i> , 2016, 43, 547-563.	0.9	10

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55	Bent-shaped liquid crystals based on 4-substituted 3-hydroxybenzoic acid central core. <i>Liquid Crystals</i> , 2015, 42, 87-103.	0.9	12
56	New insights into novel inhibitors against deoxyhypusine hydroxylase from plasmodium falciparum: compounds with an iron chelating potential. <i>Amino Acids</i> , 2015, 47, 1155-1166.	1.2	12
57	Azo-containing asymmetric bent-core liquid crystals with modulated smectic phases. <i>RSC Advances</i> , 2015, 5, 64886-64891.	1.7	18
58	Mechanistic aspects of the direct C-acylation of cyclic 1,3-diones with various unactivated carboxylic acids. <i>Tetrahedron</i> , 2015, 71, 2698-2707.	1.0	10
59	New liquid crystal based on 2-phenylthiophene central core. <i>Liquid Crystals</i> , 2014, 41, 1703-1718.	0.9	12
60	Novel carbamoyl type quinine and quinidine based chiral anion exchangers implementing alkyne-azide cycloaddition immobilization chemistry. <i>Journal of Chromatography A</i> , 2014, 1337, 85-94.	1.8	27
61	2-Acyl-dimedones as UV-active protective agents for chiral amino acids: enantiomer separations of the derivatives on chiral anion exchangers. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 8011-8026.	1.9	6
62	Strong cation exchange chiral stationary phase—A comparative study in high-performance liquid chromatography and subcritical fluid chromatography. <i>Journal of Chromatography A</i> , 2013, 1317, 59-66.	1.8	17
63	Single-Step Ugi Multicomponent Reaction for the Synthesis of Phosphopeptidomimetics. <i>Journal of Organic Chemistry</i> , 2013, 78, 10077-10087.	1.7	10
64	3-Hydroxycinnamic acid—a new central core for the design of bent-shaped liquid crystals. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4962.	2.7	7
65	Mesomorphic properties of a bent-shaped liquid crystalline monomer. <i>Phase Transitions</i> , 2013, 86, 503-515.	0.6	0
66	Strong cation exchange-type chiral stationary phase for enantioseparation of chiral amines in subcritical fluid chromatography. <i>Journal of Chromatography A</i> , 2013, 1289, 94-104.	1.8	53
67	Direct high-performance liquid chromatographic enantioseparation of free $\hat{1}^{\pm}$, $\hat{1}^2$ - and $\hat{1}^3$ -aminophosphonic acids employing cinchona-based chiral zwitterionic ion exchangers. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 8027-8038.	1.9	22
68	Click chemistry immobilization strategies in the development of strong cation exchanger chiral stationary phases for HPLC. <i>Journal of Separation Science</i> , 2013, 36, 2826-2837.	1.3	20
69	Novel Chiral Selector Based on Mefloquine—A Comparative NMR Study to Elucidate Intermolecular Interactions with Acidic Chiral Selectands. <i>Chirality</i> , 2012, 24, 936-943.	1.3	6
70	Non-symmetrical bent-shaped liquid crystals based on a laterally substituted naphthalene central core with four ester groups. <i>Liquid Crystals</i> , 2011, 38, 1099-1110.	0.9	24
71	Non-symmetrical bent-shaped liquid crystals with five ester groups. <i>Liquid Crystals</i> , 2010, 37, 987-996.	0.9	22
72	Mesophase behaviour of binary mixtures of bell-shaped and calamitic compounds. <i>Liquid Crystals</i> , 2010, 37, 527-536.	0.9	5

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73	Properties of non-symmetric bent-core liquid crystals with variable flexible chain length. <i>Liquid Crystals</i> , 2010, 37, 537-545.	0.9	10
74	The effect of a thiophene ring in the outer position on mesomorphic properties of the bent-shaped liquid crystals. <i>Journal of Materials Chemistry</i> , 2010, 20, 7430.	6.7	20
75	A nematic-polar columnar phase sequence in new bent-shaped liquid crystals based on a 7-hydroxynaphthalene-2-carboxylic acid core. <i>Journal of Materials Chemistry</i> , 2009, 19, 3153.	6.7	43
76	A new group of monoquaternary reactivators of acetylcholinesterase inhibited by nerve agents. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2005, 20, 233-237.	2.5	22
77	The smectogenity as a crucial factor of broadening of the selective light reflection peak in cholesteric photopolymerizable mixtures. <i>Liquid Crystals</i> , 0, , 1-7.	0.9	5