Michal Kohout

List of Publications by Year
in descending order

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77 papers	1,137 citations	361296 20 h-index	526166 27 g-index
78 all docs	78 docs citations	78 times ranked	1025 citing authors

#	Article	IF	Citations
1	Strong cation exchange-type chiral stationary phase for enantioseparation of chiral amines in subcritical fluid chromatography. Journal of Chromatography A, 2013, 1289, 94-104.	1.8	53
2	A nematic-polar columnar phase sequence in new bent-shaped liquid crystals based on a 7-hydroxynaphthalene-2-carboxylic acid core. Journal of Materials Chemistry, 2009, 19, 3153.	6.7	43
3	Mechanistic considerations of enantiorecognition on novel Cinchona alkaloid-based zwitterionic chiral stationary phases from the aspect of the separation of trans-paroxetine enantiomers as model compounds. Journal of Pharmaceutical and Biomedical Analysis, 2016, 124, 164-173.	1.4	39
4	Consequences of transition from liquid chromatography to supercritical fluid chromatography on the overall performance of a chiral zwitterionic ion-exchanger. Journal of Chromatography A, 2017, 1517, 165-175.	1.8	35
5	Effect of alkyl chain length in the terminal ester group on mesomorphic properties of new chiral lactic acid derivatives. Liquid Crystals, 2016, 43, 1472-1485.	0.9	32
6	Photocatalytic esterification under Mitsunobu reaction conditions mediated by flavin and visible light. Organic and Biomolecular Chemistry, 2017, 15, 1970-1975.	1.5	32
7	Evaluation of superficially porous particle based zwitterionic chiral ion exchangers against fully porous particle benchmarks for enantioselective ultra-high performance liquid chromatography. Journal of Chromatography A, 2019, 1603, 130-140.	1.8	32
8	Chiral separation of new designer drugs (Cathinones) on chiral ion-exchange type stationary phases. Journal of Pharmaceutical and Biomedical Analysis, 2016, 120, 306-315.	1.4	30
9	Azodicarboxylate-free esterification with triphenylphosphine mediated by flavin and visible light: method development and stereoselectivity control. Organic and Biomolecular Chemistry, 2018, 16, 6809-6817.	1.5	30
10	Separation of racemic compound by nanofibrous composite membranes with chiral selector. Journal of Membrane Science, 2020, 596, 117728.	4.1	30
11	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. Journal of Chromatography A, 2018, 1569, 149-159.	1.8	28
12	Novel carbamoyl type quinine and quinidine based chiral anion exchangers implementing alkyneâ€“azide cycloaddition immobilization chemistry. Journal of Chromatography A, 2014, 1337, 85-94.	1.8	27
13	The effect of the length of terminal n-alkyl carboxylate chain on self-assembling and photosensitive properties of chiral lactic acid derivatives. Journal of Molecular Liquids, 2019, 275, 829-838.	2.3	25
14	Non-symmetrical bent-shaped liquid crystals based on a laterally substituted naphthalene central core with four ester groups. Liquid Crystals, 2011, 38, 1099-1110.	0.9	24
15	A new group of monoquaternary reactivators of acetylcholinesterase inhibited by nerve agents. Journal of Enzyme Inhibition and Medicinal Chemistry, 2005, 20, 233-237.	2.5	22
16	Non-symmetrical bent-shaped liquid crystals with five ester groups. Liquid Crystals, 2010, 37, 987-996.	0.9	22
17	Direct high-performance liquid chromatographic enantioseparation of free Î±-, Î²- and Î³-aminophosphonic acids employing cinchona-based chiral zwitterionic ion exchangers. Analytical and Bioanalytical Chemistry, 2013, 405, 8027-8038.	1.9	22
18	Inherently Chiral Upper-Rim-Bridged Calix[4]arenes Possessing a Seven Membered Ring. Organic Letters, 2017, 19, 2933-2936.	2.4	22

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19	Copper nanoparticles in glycerol-polyvinyl alcohol matrix: In situ preparation, stabilisation and antimicrobial activity. Journal of Alloys and Compounds, 2017, 697, 147-155.	2.8	21
20	Light Tunable Gratings Based on Flexoelectric Effect in Photoresponsive Bentâ€Core Nematics. Advanced Optical Materials, 2019, 7, 1801790.	3.6	21
21	The effect of a thiophene ring in the outer position on mesomorphic properties of the bent-shaped liquid crystals. Journal of Materials Chemistry, 2010, 20, 7430.	6.7	20
22	Click chemistry immobilization strategies in the development of strong cation exchanger chiral stationary phases for HPLC. Journal of Separation Science, 2013, 36, 2826-2837.	1.3	20
23	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. Molecules, 2019, 24, 1099.	1.7	19
24	Methylone and pentylone: structural analysis of new psychoactive substances. Forensic Toxicology, 2019, 37, 366-377.	1.4	19
25	Azo-containing asymmetric bent-core liquid crystals with modulated smectic phases. RSC Advances, 2015, 5, 64886-64891.	1.7	18
26	Effect of different immobilization strategies on chiral recognition properties of Cinchonaâ€based anion exchangers. Journal of Separation Science, 2018, 41, 1355-1364.	1.3	18
27	Strong cation exchange chiral stationary phaseâ€”A comparative study in high-performance liquid chromatography and subcritical fluid chromatography. Journal of Chromatography A, 2013, 1317, 59-66.	1.8	17
28	Preparation of PSEBS membranes bearing (S)-(â^')-methylbenzylamine as chiral selector. European Polymer Journal, 2020, 122, 109381.	2.6	17
29	Photosensitive bent-core nematic liquid crystals with various linking units in the side arms: Structure-properties relationships. Journal of Molecular Liquids, 2020, 306, 112743.	2.3	17
30	Structure determination of butylone as a new psychoactive substance using chiroptical and vibrational spectroscopies. Chirality, 2018, 30, 548-559.	1.3	16
31	Gradient supercritical fluid chromatography coupled to mass spectrometry with a gradient flow of make-up solvent for enantioseparation of cathinones. Journal of Chromatography A, 2020, 1625, 461286.	1.8	16
32	All-organic liquid crystalline radicals with a spin unit in the outer position of a bent-core system. Journal of Materials Chemistry C, 2016, 4, 11540-11547.	2.7	15
33	Synthesis of inherently chiral calixarenes via direct mercuration of the partial cone conformation. Chemical Communications, 2016, 52, 2366-2369.	2.2	15
34	Exploring the enantiorecognition mechanism of Cinchona alkaloidâ€based zwitterionic chiral stationary phases and the basic transâ€paroxetine enantiomers. Journal of Separation Science, 2018, 41, 1199-1207.	1.3	15
35	Enantioseparation of Chiral Sulfoxides on Amylose-Based Columns: Comparison of Normal Phase Liquid Chromatography and Supercritical Fluid Chromatography. Chromatographia, 2017, 80, 547-557.	0.7	14
36	Comparative study on the liquid chromatographic enantioseparation of cyclic Î²â€amino acids and the related cyclic Î²â€aminohydroxamic acids on Cinchona alkaloidâ€based zwitterionic chiral stationary phases. Journal of Separation Science, 2018, 41, 1216-1223.	1.3	14

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37	Synthesis, absolute configuration and in vitro cytotoxicity of deschloroketamine enantiomers: rediscovered and abused dissociative anaesthetic. New Journal of Chemistry, 2018, 42, 19360-19368.	1.4	14
38	Strong cation- and zwitterion-exchange-type mixed-mode stationary phases for separation of pharmaceuticals and biogenic amines in different chromatographic modes. Journal of Chromatography A, 2021, 1635, 461751.	1.8	13
39	New liquid crystal based on 2-phenylthiophene central core. Liquid Crystals, 2014, 41, 1703-1718.	0.9	12
40	Bent-shaped liquid crystals based on 4-substituted 3-hydroxybenzoic acid central core. Liquid Crystals, 2015, 42, 87-103.	0.9	12
41	New insights into novel inhibitors against deoxyhypusine hydroxylase from plasmodium falciparum: compounds with an iron chelating potential. Amino Acids, 2015, 47, 1155-1166.	1.2	12
42	Photochromic spiropyran-based liquid crystals. Journal of Molecular Liquids, 2022, 346, 117842.	2.3	11
43	Properties of non-symmetric bent-core liquid crystals with variable flexible chain length. Liquid Crystals, 2010, 37, 537-545.	0.9	10
44	Single-Step Ugi Multicomponent Reaction for the Synthesis of Phosphopeptidomimetics. Journal of Organic Chemistry, 2013, 78, 10077-10087.	1.7	10
45	Mechanistic aspects of the direct C-acylation of cyclic 1,3-diones with various unactivated carboxylic acids. Tetrahedron, 2015, 71, 2698-2707.	1.0	10
46	Bent-shaped liquid crystals based on 4-substituted 3-hydroxybenzoic acid central core â€“ Part II. Liquid Crystals, 2016, 43, 547-563.	0.9	10
47	Structural spectroscopic study of enantiomerically pure synthetic cathinones and their major metabolites. New Journal of Chemistry, 2021, 45, 850-860.	1.4	10
48	Photosensitive bent-core liquid crystals based on methyl substituted 3-hydroxybenzoic acid. RSC Advances, 2017, 7, 35805-35813.	1.7	9
49	Synthesis of upper rim-double-bridged calix[4]arenes bearing seven membered rings and related compounds. RSC Advances, 2019, 9, 22017-22030.	1.7	9
50	Absolute configuration of the antimalarial erythro-mefloquine â€“ vibrational circular dichroism and X-ray diffraction studies of mefloquine and its thiourea derivative. RSC Advances, 2016, 6, 81461-81465.	1.7	8
51	Bent-core liquid crystals based on 6-substituted 3-hydroxybenzoic acid: the role of substitution and linkage group orientation on mesomorphic properties. Liquid Crystals, 2016, 43, 1889-1900.	0.9	8
52	Silica gel-immobilized multidisciplinary materials applicable in stereoselective organocatalysis and HPLC separation. RSC Advances, 2018, 8, 1174-1181.	1.7	8
53	3-Hydroxycinnamic acid â€“ a new central core for the design of bent-shaped liquid crystals. Journal of Materials Chemistry C, 2013, 1, 4962.	2.7	7
54	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. Journal of Chromatography Open, 2021, 1, 100004.	0.8	7

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55	Novel Chiral Selector Based on Mefloquine â€“ A Comparative NMR Study to Elucidate Intermolecular Interactions with Acidic Chiral Selectands. Chirality, 2012, 24, 936-943.	1.3	6
56	2-Acyl-dimedones as UV-active protective agents for chiral amino acids: enantiomer separations of the derivatives on chiral anion exchangers. Analytical and Bioanalytical Chemistry, 2013, 405, 8011-8026.	1.9	6
57	Regio-/stereoselective formation of monosulfoxides from thiacalix[4]arenes in all possible conformations. Tetrahedron Letters, 2017, 58, 1687-1691.	0.7	6
58	Chemoselective oxidation of phenoxathiin-based thiacalix[4]arene and the stereoselective alkylation of products. New Journal of Chemistry, 2018, 42, 20074-20086.	1.4	6
59	Ketone transformation as a pathway to inherently chiral rigidified calix[4]arenes. Chemical Communications, 2020, 56, 12773-12776.	2.2	6
60	Regioselective formation of the quinazoline moiety on the upper rim of calix[4]arene as a route to inherently chiral systems. New Journal of Chemistry, 2020, 44, 6490-6500.	1.4	6
61	Chiral Photoresponsive Liquid Crystalline Materials Derived from Cyanoazobenzene Central Core: Effect of UV Light Illumination on Mesomorphic Behavior. Crystals, 2020, 10, 1161.	1.0	6
62	Mesophase behaviour of binary mixtures of bell-shaped and calamitic compounds. Liquid Crystals, 2010, 37, 527-536.	0.9	5
63	X-ray powder diffraction data for (S)-Deschloroketamine hydrochloride, C₁₃H₁₈ClNO. Powder Diffraction, 2017, 32, 193-195.	0.4	5
64	Nitrosobenzene: Reagent for the Mitsunobu Esterification Reaction. ACS Omega, 2019, 4, 5012-5018.	1.6	5
65	Influence of linking units on the photo responsive studies of azobenzene liquid Crystals: Application in optical storage devices. Journal of Molecular Liquids, 2021, 339, 116744.	2.3	5
66	The smectogenity as a crucial factor of broadening of the selective light reflection peak in cholesteric photopolymerizable mixtures. Liquid Crystals, 0, , 1-7.	0.9	5
67	Evaluation of silica from different vendors as the solid support of anionâ€exchange chiral stationary phases by means of preferential sorption and liquid chromatography. Journal of Separation Science, 2019, 42, 3653-3661.	1.3	4
68	Laterally substituted biphenyl benzoates â€’ synthesis and mesomorphic properties. Liquid Crystals, 2021, 48, 526-536.	0.9	4
69	Design and synthesis of naphthaleneâ€based chiral strong cation exchangers and their application for chiral separation of basic drugs. Journal of Separation Science, 2021, 44, 3348-3356.	1.3	4
70	Photosensitive Bent-Core Liquid Crystals with Laterally Substituted Azobenzene Unit. Crystals, 2021, 11, 1265.	1.0	4
71	Bent-core liquid crystals with a 2-substituted 3-hydroxybenzoic acid central core. Liquid Crystals, 2017, 44, 1306-1315.	0.9	3
72	Pharmacokinetic, pharmacodynamic, and behavioural studies of deschloroketamine (DCK) in Wistar rats. British Journal of Pharmacology, 2021, , .	2.7	3

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73	Chiral separation of dipeptides on Cinchonaâ€based zwitterionic chiral stationary phases under bufferâ€free reversedâ€phase conditions. Chirality, 2022, 34, 1065-1077.	1.3	3
74	The Role of Substitution in the Apex Position of the Bent-Core on Mesomorphic Properties of New Series of Liquid Crystalline Materials. Crystals, 2020, 10, 735.	1.0	2
75	Mesomorphic properties of non-symmetric bent-core liquid crystals with a lateral substituent in the apex position. Liquid Crystals, 2021, 48, 1010-1024.	0.9	2
76	Optically active polyimides with different thermal histories of their preparation. Chirality, 2022, 34, 1151-1161.	1.3	1
77	Mesomorphic properties of a bent-shaped liquid crystalline monomer. Phase Transitions, 2013, 86, 503-515.	0.6	0