

David Sykora

List of Publications by Year in descending order

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102
papers

2,287
citations

257357

24
h-index

243529

44
g-index

105
all docs

105
docs citations

105
times ranked

2381
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of the monolithic polymers used in capillary electrochromatography columns. <i>Journal of Chromatography A</i> , 2000, 887, 3-29.	1.8	241
2	Monolithic Stationary Phases for Capillary Electrochromatography Based on Synthetic Polymers: Designs and Applications. <i>Journal of High Resolution Chromatography</i> , 2000, 23, 3-18.	2.0	157
3	Application of cyclodextrins in chiral capillary electrophoresis. <i>Electrophoresis</i> , 2014, 35, 2701-2721.	1.3	141
4	Separation of oligonucleotides on novel monolithic columns with ion-exchange functional surfaces. <i>Journal of Chromatography A</i> , 1999, 852, 297-304.	1.8	135
5	Application of gold nanoparticles in separation sciences. <i>Journal of Separation Science</i> , 2010, 33, 372-387.	1.3	118
6	Interactions of basic compounds in reversed-phase high-performance liquid chromatography influence of sorbent character, mobile phase composition, and pH on retention of basic compounds. <i>Journal of Chromatography A</i> , 1997, 758, 37-51.	1.8	92
7	Recent advances in mixed-mode chromatographic stationary phases. <i>Journal of Separation Science</i> , 2019, 42, 89-129.	1.3	77
8	Iron Complexes of Flavonoids-Antioxidant Capacity and Beyond. <i>International Journal of Molecular Sciences</i> , 2021, 22, 646.	1.8	58
9	Analysis of aldehydes in beer by gas-diffusion microextraction: Characterization by high-performance liquid chromatography-diode-array detection-atmospheric pressure chemical ionization-mass spectrometry. <i>Journal of Chromatography A</i> , 2010, 1217, 3717-3722.	1.8	52
10	Novel lipidized analogs of prolactin-releasing peptide have prolonged half-lives and exert anti-obesity effects after peripheral administration. <i>International Journal of Obesity</i> , 2015, 39, 986-993.	1.6	51
11	2,2'-Azobis(pyridine) (abpy) as a multiply reducible tetradentate ligand. EPR evidence for the configurational dependence of intramolecular electron transfer in the stereoisomeric tris-chelate ruthenium complexes [Ru(abpy) _n (bpy) _{3-n}] ^m (n = 2, 3; m = 2+ to 3-). <i>Inorganic Chemistry</i> , 1993, 32, 3362-3368.	1.9	50
12	Molded porous polymer monoliths: A novel format for capillary gas chromatography stationary phases. , 2000, 275, 42-47.		47
13	Label-free surface-enhanced Raman spectroscopy with artificial neural network technique for recognition photoinduced DNA damage. <i>Biosensors and Bioelectronics</i> , 2019, 145, 111718.	5.3	41
14	Comparison of high-performance liquid chromatography and capillary electrophoresis for the determination of some bee venom components. <i>Journal of Chromatography A</i> , 1995, 700, 187-193.	1.8	40
15	The Peptidic GHS-R antagonist [D-Lys ³]GHRP-6 markedly improves adiposity and related metabolic abnormalities in a mouse model of postmenopausal obesity. <i>Molecular and Cellular Endocrinology</i> , 2011, 343, 55-62.	1.6	40
16	Strategy for improved therapeutic efficiency of curcumin in the treatment of gastric cancer. <i>Biomedicine and Pharmacotherapy</i> , 2019, 118, 109278.	2.5	39
17	Rapid determination of molecular parameters of synthetic polymers by precipitation/redissolution high-performance liquid chromatography using molded monolithic column. <i>Journal of Polymer Science Part A</i> , 2000, 38, 2767-2778.	2.5	38
18	Potentiometric response and mechanism of anionic recognition of heterocalixarene-based ion selective electrodes. <i>Analytica Chimica Acta</i> , 2007, 587, 247-253.	2.6	36

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19	Urinary metabolomic profiling in mice with diet-induced obesity and type 2 diabetes mellitus after treatment with metformin, vildagliptin and their combination. <i>Molecular and Cellular Endocrinology</i> , 2016, 431, 88-100.	1.6	34
20	Salting out assisted liquid-liquid extraction for liquid chromatography tandem-mass spectrometry determination of amphetamine-like stimulants in meconium. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 172, 42-49.	1.4	33
21	Open-tubular capillary electrochromatography with bare gold nanoparticles-based stationary phase applied to separation of trypsin digested native and glycosylated proteins. <i>Journal of Separation Science</i> , 2012, 35, 994-1002.	1.3	31
22	Combination of UV and MS/MS detection for the LC analysis of cannabidiol-rich products. <i>Talanta</i> , 2020, 219, 121250.	2.9	29
23	Synthetic Routes to Linear Oligo-Triglycyl Bases. <i>Organic Letters</i> , 2005, 7, 67-70.	2.4	27
24	Application of bare gold nanoparticles in open-tubular CEC separations of polyaromatic hydrocarbons and peptides. <i>Journal of Separation Science</i> , 2012, 35, 73-78.	1.3	26
25	Role of mtDNA disturbances in the pathogenesis of Alzheimer's and Parkinson's disease. <i>DNA Repair</i> , 2020, 91-92, 102871.	1.3	25
26	Cyclodextrin modified gold nanoparticles-based open-tubular capillary electrochromatographic separations of polyaromatic hydrocarbons. <i>Journal of Nanoparticle Research</i> , 2011, 13, 5947-5957.	0.8	24
27	Nuclear transport of nicotinamide phosphoribosyltransferase is cell cycle-dependent in mammalian cells, and its inhibition slows cell growth. <i>Journal of Biological Chemistry</i> , 2019, 294, 8676-8689.	1.6	23
28	Salting-out-assisted liquid-liquid extraction as a suitable approach for determination of methoxetamine in large sets of tissue samples. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 1171-1181.	1.9	22
29	Chromatographic methods enabling the characterization of stationary phases and retention prediction in high-performance liquid chromatography and supercritical fluid chromatography. <i>Journal of Separation Science</i> , 2016, 39, 115-131.	1.3	21
30	Experimental and theoretical study on cation-π interaction of the univalent thallium cation with [2.2.2]paracyclophane. <i>Chemical Physics Letters</i> , 2015, 642, 39-42.	1.2	20
31	The use of 1,5-diaminonaphthalene for matrix-assisted laser desorption/ionization mass spectrometry imaging of brain in neurodegenerative disorders. <i>Talanta</i> , 2019, 201, 364-372.	2.9	20
32	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
33	Chiral HPLC for a study of the optical purity of new liquid crystalline materials derived from lactic acid. <i>Phase Transitions</i> , 2014, 87, 758-769.	0.6	18
34	Chiral separation of novel diazenes on a polysaccharide-based stationary phase in the reversed-phase mode. <i>Journal of Separation Science</i> , 2017, 40, 1465-1469.	1.3	18
35	Impact of substituent position in monosubstituted β -cyclodextrins on enantioselectivity in capillary electrophoresis. <i>Journal of Separation Science</i> , 2012, 35, 811-815.	1.3	17
36	The study of enantioselectivity of all regioisomers of mono-carboxymethyl- β -cyclodextrin used as chiral selectors in $\langle \text{sc} \rangle \text{CE} \langle \text{sc} \rangle$. <i>Journal of Separation Science</i> , 2013, 36, 1270-1274.	1.3	17

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37	Analysis of insect triacylglycerols using liquid chromatography-atmospheric pressure chemical ionization-mass spectrometry. <i>European Journal of Lipid Science and Technology</i> , 2009, 111, 519-525.	1.0	16
38	Stability Study of Cannabidiol in the Form of Solid Powder and Sunflower Oil Solution. <i>Pharmaceutics</i> , 2021, 13, 412.	2.0	16
39	Analytical Application of Oligopyrrole Macrocycles. <i>Collection of Czechoslovak Chemical Communications</i> , 2001, 66, 693-769.	1.0	15
40	Influence of substituent position and cavity size of the regioisomers of monocarboxymethyl- β - and γ -cyclodextrins on the apparent stability constants of their complexes with both enantiomers of Tröger's base. <i>Journal of Separation Science</i> , 2016, 39, 980-985.	1.3	15
41	Hydrazones as novel epigenetic modulators: Correlation between TET 1 protein inhibition activity and their iron(II) binding ability. <i>Bioorganic Chemistry</i> , 2019, 88, 102809.	2.0	13
42	Liquid Chromatography-Diode Array and Electrospray High-Accuracy Mass Spectrometry of Iso- α -Acids in DCHA-Iso Standard and Beer. <i>Journal of the Institute of Brewing</i> , 2007, 113, 48-54.	0.8	12
43	Chiral HPLC and physical characterisation of orthoconic antiferroelectric liquid crystals. <i>Liquid Crystals</i> , 2016, 43, 1244-1250.	0.9	12
44	Mass spectrometry imaging of free-floating brain sections detects pathological lipid distribution in a mouse model of Alzheimer's-like pathology. <i>Analyst</i> , 2020, 145, 4595-4605.	1.7	12
45	Interaction of porphyrin and sapphyrin macrocycles with nucleobases and nucleosides. <i>Analytica Chimica Acta</i> , 2001, 437, 39-53.	2.6	11
46	Monitoring of dimethyl sulphate-induced N3-methyladenine, N7-methylguanine and O6-methylguanine DNA adducts using reversed-phase high performance liquid chromatography and mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008, 867, 43-48.	1.2	11
47	Immobilized metallacarborane as a new type of stationary phase for high performance liquid chromatography. <i>Journal of Chromatography A</i> , 2011, 1218, 3029-3036.	1.8	11
48	Optimization of <i>o</i> -phthalaldehyde/2-mercaptoethanol postcolumn reaction for the hydrophilic interaction liquid chromatography determination of memantine utilizing a silica hydride stationary phase. <i>Journal of Separation Science</i> , 2016, 39, 3145-3155.	1.3	11
49	Perimidine-based synthetic receptors for determination of copper(II) in water solution. <i>Supramolecular Chemistry</i> , 2018, 30, 218-226.	1.5	11
50	Effective control of optical purity by chiral HPLC separation for ester-based liquid crystalline materials forming anticlinic smectic phases. <i>Liquid Crystals</i> , 2021, 48, 43-53.	0.9	11
51	Physical factors negatively affecting evaluation of long-term biodegradation experiments of polychlorinated biphenyls. <i>Chemosphere</i> , 1996, 33, 2411-2421.	4.2	10
52	Nonaqueous Capillary Electrophoretic Enantioseparation of Water Insoluble Tröger's Base Derivatives Using β -Cyclodextrin as Chiral Selector. <i>Chirality</i> , 2013, 25, 810-813.	1.3	10
53	A novel seven-membered carbohydrate phostone. <i>Tetrahedron Letters</i> , 2003, 44, 8797-8800.	0.7	9
54	Association of biotin with silver (I) in solution: a circular dichroism study. <i>Tetrahedron: Asymmetry</i> , 2010, 21, 1916-1920.	1.8	9

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55	Important aspects influencing stability of the electrochemical potential of conductive polymer-based electrodes. <i>Journal of Materials Science</i> , 2011, 46, 7594-7602.	1.7	9
56	The influence of the substituent position in monocarboxymethyl- β -cyclodextrins on enantioselectivity in capillary electrophoresis. <i>Journal of Separation Science</i> , 2014, 37, 2779-2784.	1.3	9
57	Triazole GHS-R1a antagonists JMV4208 and JMV3002 attenuate food intake, body weight, and adipose tissue mass in mice. <i>Molecular and Cellular Endocrinology</i> , 2014, 393, 120-128.	1.6	9
58	A new approach to the chiral separation of novel diazenes. <i>Journal of Separation Science</i> , 2015, 38, 4211-4215.	1.3	9
59	Synthesis and identification of deschloroketamine metabolites in rats' urine and a quantification method for deschloroketamine and metabolites in rats' serum and brain tissue using liquid chromatography tandem mass spectrometry. <i>Drug Testing and Analysis</i> , 2020, 12, 343-360.	1.6	9
60	Benzoisothiazole-1,1-dioxide-based synthetic receptor for zinc ion recognition in aqueous medium and its interaction with nucleic acids. <i>Supramolecular Chemistry</i> , 2019, 31, 19-27.	1.5	8
61	Advanced microextraction techniques for the analysis of amphetamines in human breast milk and their comparison with conventional methods. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 210, 114549.	1.4	8
62	Novel approach to determine ghrelin analogs by liquid chromatography with mass spectrometry using a monolithic column. <i>Journal of Separation Science</i> , 2017, 40, 1032-1039.	1.3	7
63	Influence of photoinduced isomerization on the chiral separation of novel liquid crystalline materials with a diazene moiety. <i>Journal of Separation Science</i> , 2018, 41, 3034-3041.	1.3	7
64	Comparison of Chemical Composition and Biological Activities of Eight <i>Selaginella</i> Species. <i>Pharmaceuticals</i> , 2021, 14, 16.	1.7	7
65	Enantioseparation of Tröger's Base Derivatives by Capillary Electrophoresis Using Cyclodextrins as Chiral Selectors. <i>Chirality</i> , 2013, 25, 379-383.	1.3	6
66	Characterization of novel metallacarborane-based sorbents by linear solvation energy relationships. <i>Journal of Chromatography A</i> , 2014, 1371, 220-226.	1.8	6
67	Experimental and theoretical study on cation- π interaction of the univalent silver cation with [7]helicene in the gas phase and in the solid state. <i>Chemical Physics Letters</i> , 2015, 635, 355-359.	1.2	6
68	Cation- π interaction of the univalent silver cation with racemic [6]helicene in the gas phase and in the solid state. <i>Polyhedron</i> , 2016, 117, 1-6.	1.0	6
69	Immobilized strychnine as a new chiral stationary phase for HPLC. <i>Electrophoresis</i> , 2017, 38, 1956-1963.	1.3	6
70	A Novel Way to Improve Sulfate Recognition. <i>Electroanalysis</i> , 2009, 21, 2010-2013.	1.5	5
71	Cation- π interaction of Tl ⁺ with [6]helicene: Experimental and DFT study. <i>Journal of Molecular Structure</i> , 2015, 1100, 150-153.	1.8	5
72	Lipopeptides as therapeutics: applications and in vivo quantitative analysis. <i>Bioanalysis</i> , 2017, 9, 215-230.	0.6	5

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73	Cation-π Interaction of the Univalent Silver Cation with [2.2.2]Paracyclophane in the Gas Phase and in the Solid State: Experimental and Theoretical Study. <i>Journal of Cluster Science</i> , 2019, 30, 53-60.	1.7	5
74	New multimodal stationary phases prepared by Ugi multicomponent approach. <i>Journal of Separation Science</i> , 2020, 43, 4178-4190.	1.3	5
75	Analytical methods applied in preparation of radiolabelled proteins and antibodies. <i>European Physical Journal D</i> , 2003, 53, A803-A808.	0.4	4
76	High-performance liquid chromatography and nuclear magnetic resonance study of linear tetrapeptides and octapeptides containing N-methylated amino acid residues. <i>Journal of Chromatography A</i> , 2007, 1160, 128-136.	1.8	4
77	Theoretical study of cation-π interactions of Cu ⁺ , Ag ⁺ , and Au ⁺ with [6]helicene. <i>Monatshefte für Chemie</i> , 2015, 146, 1795-1798.	0.9	4
78	LC-MS/MS analysis of lipidized analogs of prolactin-releasing peptide utilizing a monolithic column and simple sample preparation. <i>Bioanalysis</i> , 2017, 9, 1319-1328.	0.6	4
79	Application of matrix-assisted laser desorption/ionization mass spectrometry imaging in combination with LC-MS in pharmacokinetic study of metformin. <i>Bioanalysis</i> , 2018, 10, 71-81.	0.6	4
80	Spectroscopic study of in situ-formed metallocomplexes of proton pump inhibitors in water. <i>Chemical Biology and Drug Design</i> , 2021, 97, 305-314.	1.5	4
81	Reversed-phase high-performance liquid chromatography of diastereomers of some phosphonodipeptides. <i>Journal of Chromatography A</i> , 1994, 665, 59-65.	1.8	3
82	Extraction of p-hydroxyacetophenone and catechin from Norway spruce needles. Comparison of different extraction solvents. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 382, 1135-1140.	1.9	3
83	Cation-π interaction of the univalent sodium cation with [2.2.2]paracyclophane: Experimental and theoretical study. <i>Journal of Molecular Structure</i> , 2018, 1154, 79-82.	1.8	3
84	Experimental and Theoretical Study on Cation-π Interaction of the Potassium Cation with [2.2.2]Paracyclophane. <i>Journal of Cluster Science</i> , 2018, 29, 21-25.	1.7	3
85	Formaldehyde Reacts with Amino Acids and Peptides with a Potential Role in Acute Methanol Intoxication. <i>Journal of Analytical Toxicology</i> , 2020, 44, 880-885.	1.7	3
86	Interaction Between the Rubidium Cation and [2.2.2]Paracyclophane: Experimental and Theoretical Study. <i>Acta Chimica Slovenica</i> , 2018, 65, 475-780.	0.2	3
87	Selective oxygenation of E-olefins by means of metalloporphyrin catalysts mimicking cytochrome P-450. <i>Collection of Czechoslovak Chemical Communications</i> , 2011, 76, 1163-1175.	1.0	2
88	Cation-π interaction of Li ⁺ with [6]helicene: Experimental and theoretical study. <i>Chemical Physics Letters</i> , 2016, 665, 162-165.	1.2	2
89	[2.2.2]Paracyclophane as a receptor for the cesium cation in the gas phase. <i>Molecular Physics</i> , 2017, 115, 2553-2557.	0.8	2
90	Interaction of the lithium cation with [2.2.2]paracyclophane: Experimental and theoretical study. <i>Journal of Molecular Structure</i> , 2021, 1232, 130026.	1.8	2

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91	Interaction of oligopyrrole macrocycles with aromatic acids: spectroscopic, quantum chemical and chromatographic aspects. <i>Talanta</i> , 2003, 59, 817-829.	2.9	1
92	Synthetic Polymers. <i>Journal of Chromatography Library</i> , 2003, , 457-487.	0.1	1
93	Experimental and theoretical study on cation-π interaction of the univalent silver cation with pyrene in the gas phase and in the solid state. <i>Inorganica Chimica Acta</i> , 2018, 477, 165-171.	1.2	1
94	Analysis of Chondroitin/Dermatan Sulphate Disaccharides Using High-Performance Liquid Chromatography. <i>Separations</i> , 2020, 7, 49.	1.1	1
95	Monolithic Stationary Phases for Capillary Electrochromatography Based on Synthetic Polymers: Designs and Applications. , 2000, 23, 3.		1
96	MALDI Mass Spectrometry Imaging of Lipids on Brain Sections and Immunohistochemically Colocalized Markers of Neurodegeneration. <i>Methods in Molecular Biology</i> , 2022, 2437, 229-239.	0.4	1
97	Theoretical study of cation-π interactions of Li+, Na+, and K+ with [6]helicene. <i>Monatshefte für Chemie</i> , 2015, 146, 1229-1231.	0.9	0
98	Fascinating interaction of the ammonium cation with [2.2.2]paracyclophane: experimental and theoretical study. <i>Molecular Physics</i> , 2018, 116, 1245-1250.	0.8	0
99	Interaction of Ag+ with corannulene: Experimental and theoretical study. <i>Chemical Physics Letters</i> , 2021, 777, 138733.	1.2	0
100	Analysis of antimicrobial peptides by capillary electrophoresis. , 2011, , .		0
101	Open-tubular capillary electrochromatography with bare gold nanoparticles-based stationary phase applied to separation of trypsin digested native and glycosylated proteins. <i>Journal of Separation Science</i> , 2012, , n/a-n/a.	1.3	0
102	Cation-π interaction of thallium (I) with [7]helicene: an experimental and theoretical study. <i>Molecular Physics</i> , 0, , .	0.8	0