

Lane C Sander

List of Publications by Year in descending order

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76
papers

4,202
citations

117625

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76
docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Synthesis and characterization of polymeric C18 stationary phases for liquid chromatography. <i>Analytical Chemistry</i> , 1984, 56, 504-510.	6.5	358
2	Development of Engineered Stationary Phases for the Separation of Carotenoid Isomers. <i>Analytical Chemistry</i> , 1994, 66, 1667-1674.	6.5	356
3	Fourier transform infrared spectrometric determination of alkyl chain conformation on chemically bonded reversed-phase liquid chromatography packings. <i>Analytical Chemistry</i> , 1983, 55, 1068-1075.	6.5	220
4	Effect of phase length on column selectivity for the separation of polycyclic aromatic hydrocarbons by reversed-phase liquid chromatography. <i>Analytical Chemistry</i> , 1987, 59, 2309-2313.	6.5	198
5	Recent Advances in Bonded Phases for Liquid Chromatography. <i>Critical Reviews in Analytical Chemistry</i> , 1987, 18, 299-415.	3.5	191
6	C30 Stationary phases for the analysis of food by liquid chromatography. <i>Journal of Chromatography A</i> , 2000, 880, 189-202.	3.7	166
7	Influence of Stationary Phase Chemistry on Shape Recognition in Liquid Chromatography. <i>Analytical Chemistry</i> , 1995, 67, 3284-3292.	6.5	163
8	Subambient temperature modification of selectivity in reversed-phase liquid chromatography. <i>Analytical Chemistry</i> , 1989, 61, 1749-1754.	6.5	160
9	Shape Selectivity for Constrained Solutes in Reversed-Phase Liquid Chromatography. <i>Analytical Chemistry</i> , 1999, 71, 4821-4830.	6.5	148
10	Influence of substrate parameters on column selectivity with alkyl bonded-phase sorbents. <i>Journal of Chromatography A</i> , 1984, 316, 163-181.	3.7	129
11	Chain Order and Mobility of High-Density C18 Phases by Solid-State NMR Spectroscopy and Liquid Chromatography. <i>Analytical Chemistry</i> , 1996, 68, 4107-4113.	6.5	115
12	Order and disorder in alkyl stationary phases. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 382, 646-668.	3.7	91
13	Analytical Methods for Determination of Polycyclic Aromatic Hydrocarbons (PAHs) – A Historical Perspective on the 16 U.S. EPA Priority Pollutant PAHs. <i>Polycyclic Aromatic Compounds</i> , 2015, 35, 187-247.	2.6	81
14	Shape discrimination in liquid chromatography using charge-transfer phases. <i>Analytical Chemistry</i> , 1991, 63, 2589-2597.	6.5	66
15	Temperature dependence of carotenoids on C18, C30 and C34 bonded stationary phases. <i>Journal of Chromatography A</i> , 1997, 757, 29-39.	3.7	64
16	Coupled Achiral/Chiral Column Techniques in Subcritical Fluid Chromatography for the Separation of Chiral and Nonchiral Compounds. <i>Analytical Chemistry</i> , 1998, 70, 2331-2335.	6.5	64
17	A new standard reference material for column evaluation in reversed-phase liquid chromatography. <i>Journal of Separation Science</i> , 2003, 26, 283-294.	2.5	64
18	Architecture and Dynamics of C22 Bonded Interphases. <i>Journal of the American Chemical Society</i> , 1999, 121, 3201-3213.	13.7	61

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19	Mass Spectrometric Determination of the Predominant Adrenergic Protoalkaloids in Bitter Orange (<i>Citrus aurantium</i>). <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 9769-9775.	5.2	61
20	C30 Self-Assembled Monolayers on Silica, Titania, and Zirconia: HPLC Performance, Atomic Force Microscopy, Ellipsometry, and NMR Studies of Molecular Dynamics and Uniformity of Coverage. <i>Journal of the American Chemical Society</i> , 2000, 122, 6997-7011.	13.7	60
21	Evaluation of Column Performance in Liquid Chromatography. <i>Journal of Chromatographic Science</i> , 1988, 26, 380-387.	1.4	57
22	Peer Reviewed: Understanding Reversed-Phase LC with solid-state NMR. <i>Analytical Chemistry</i> , 1999, 71, 733A-741A.	6.5	57
23	Molecular Dynamics Simulations of Alkylsilane Stationary-Phase Order and Disorder. 1. Effects of Surface Coverage and Bonding Chemistry. <i>Analytical Chemistry</i> , 2005, 77, 7852-7861.	6.5	57
24	Determination of Ephedrine Alkaloids in Dietary Supplement Standard Reference Materials. <i>Analytical Chemistry</i> , 2005, 77, 3101-3112.	6.5	54
25	Determination of bonded phase thickness in liquid chromatography by small angle neutron scattering. <i>Analytical Chemistry</i> , 1990, 62, 1099-1101.	6.5	53
26	Determination of ephedrine alkaloid stereoisomers in dietary supplements by capillary electrophoresis. <i>Journal of Chromatography A</i> , 2005, 1077, 90-97.	3.7	53
27	Structure-Function Relationships in High-Density Octadecylsilane Stationary Phases by Raman Spectroscopy. 1. Effects of Temperature, Surface Coverage, and Preparation Procedure. <i>Analytical Chemistry</i> , 2002, 74, 5576-5584.	6.5	51
28	The influence of column temperature on selectivity in reversed-phase liquid chromatography for shape-constrained solutes. <i>Journal of Separation Science</i> , 2001, 24, 910-920.	2.5	50
29	Molecular Dynamics Simulations of Alkylsilane Stationary-Phase Order and Disorder. 2. Effects of Temperature and Chain Length. <i>Analytical Chemistry</i> , 2005, 77, 7862-7871.	6.5	48
30	Selectivity of long chain stationary phases in reversed phase liquid chromatography. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 382, 698-707.	3.7	46
31	Structure-Function Relationships in High-Density Octadecylsilane Stationary Phases by Raman Spectroscopy. 2. Effect of Common Mobile-Phase Solvents. <i>Analytical Chemistry</i> , 2002, 74, 5585-5592.	6.5	42
32	FTIR Studies of C30 Self-Assembled Monolayers on Silica, Titania, and Zirconia. <i>Langmuir</i> , 2004, 20, 1746-1752.	3.5	41
33	Capillary liquid chromatography/electrospray mass spectrometry for the separation and detection of catechins in green tea and human plasma. <i>Rapid Communications in Mass Spectrometry</i> , 1997, 11, 1753-1756.	1.5	39
34	Standard reference materials for foods and dietary supplements. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 389, 171-178.	3.7	39
35	Use of a naphthylethylcarbamoylated- β -cyclodextrin chiral stationary phase for the separation of drug enantiomers and related compounds by sub- and supercritical fluid chromatography. <i>Chirality</i> , 1996, 8, 325-331.	2.6	35
36	Recertification of Standard Reference Material (SRM) 1649, Urban Dust, for the Determination of Polycyclic Aromatic Hydrocarbons (PAHs). <i>Polycyclic Aromatic Compounds</i> , 2000, 13, 419-456.	2.6	33

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37	Determination of Bitter Orange alkaloids in dietary supplements standard reference materials by liquid chromatography with ultraviolet absorbance and fluorescence detection. <i>Journal of Chromatography A</i> , 2007, 1156, 304-311.	3.7	32
38	Poly(ethylene-co-acrylic acid) Stationary Phases for the Separation of Shape-Constrained Isomers. <i>Analytical Chemistry</i> , 2001, 73, 1814-1820.	6.5	30
39	Certification of a Frozen Mussel Tissue Standard Reference Material (SRM 1974a) for Trace Organic Constituents. <i>Fresenius' Journal of Analytical Chemistry</i> , 1997, 358, 431-440.	1.5	28
40	Characterization of a suite of ginkgo-containing standard reference materials. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 389, 179-196.	3.7	28
41	Determination of bitter orange alkaloids in dietary supplement Standard Reference Materials by liquid chromatography with atmospheric-pressure ionization mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 389, 197-205.	3.7	28
42	Development and Analysis of Three Diesel Particulate-Related Standard Reference Materials for the Determination of Chemical, Physical, and Biological Characteristics. <i>Polycyclic Aromatic Compounds</i> , 2003, 23, 141-191.	2.6	27
43	Determination of 3-Quinuclidinyl Benzilate (QNB) and Its Major Metabolites in Urine by Isotope Dilution Gas Chromatography/Mass Spectrometry. <i>Journal of Analytical Toxicology</i> , 1992, 16, 182-187.	2.8	26
44	Synthesis and characterization of extended length alkyl stationary phases for liquid chromatography with application to the separation of carotenoid isomers. <i>Journal of Chromatography A</i> , 1996, 753, 37-45.	3.7	26
45	Shape selectivity in embedded polar group stationary phases for liquid chromatography. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 285-291.	3.7	24
46	Preparation and Characterization of Standard Reference Material 1849 Infant/Adult Nutritional Formula. <i>Journal of AOAC INTERNATIONAL</i> , 2010, 93, 1262-1274.	1.5	24
47	Device for subambient temperature control in liquid chromatography. <i>Analytical Chemistry</i> , 1990, 62, 1545-1547.	6.5	23
48	Structure-Function Relationships in High-Density Octadecylsilane Stationary Phases by Raman Spectroscopy. 3. Effects of Self-Associating Solvents. <i>Analytical Chemistry</i> , 2003, 75, 3360-3368.	6.5	23
49	Determination of Methyl-Substituted Polycyclic Aromatic Hydrocarbons in Diesel Particulate-Related Standard Reference Materials. <i>Polycyclic Aromatic Compounds</i> , 2003, 23, 113-139.	2.6	23
50	Role of chromatography in the development of Standard Reference Materials for organic analysis. <i>Journal of Chromatography A</i> , 2012, 1261, 3-22.	3.7	22
51	Effect of surface coverage on the conformation and mobility of C18-modified silica gels. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 384, 514-524.	3.7	20
52	Dietary supplement Standard Reference Materials. <i>Life Sciences</i> , 2006, 78, 2044-2048.	4.3	20
53	Preparation and Characterization of a Suite of Ephedra-Containing Standard Reference Materials. <i>Journal of AOAC INTERNATIONAL</i> , 2006, 89, 1483-1495.	1.5	19
54	Identification of isolated cavity features within molecular dynamics simulated chromatographic surfaces. <i>Journal of Chromatography A</i> , 2006, 1128, 79-89.	3.7	19

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55	Synthesis and characterization of C13 to C18 stationary phases by monomeric, solution polymerized, and surface polymerized approaches. <i>Journal of Chromatography A</i> , 2003, 1007, 11-20.	3.7	17
56	Development of botanical and fish oil standard reference materials for fatty acids. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 4531-4538.	3.7	16
57	Structure-Function Relationships in High-Density Octadecylsilane Stationary Phases by Raman Spectroscopy. 4. Effects of Neutral and Basic Aromatic Compounds. <i>Analytical Chemistry</i> , 2003, 75, 3369-3375.	6.5	15
58	Architecture and Dynamics of C18 Bonded Interphases with Small Molecule Spacers. <i>Analytical Chemistry</i> , 2009, 81, 10136-10142.	6.5	14
59	Certification of Polycyclic Aromatic Hydrocarbons in Mussel Tissue and Air Particulate Standard Reference Materials (SRMs). <i>Polycyclic Aromatic Compounds</i> , 1996, 9, 209-216.	2.6	12
60	Development of a Reversed-Phase Liquid Chromatography and Fluorescence Method with Multichannel Selective Wavelength Detection for the Determination of Benzo[a]pyrene and Six of Its Isomers. <i>Chromatographia</i> , 2019, 82, 499-508.	1.3	12
61	Recent Developments in NIST Standard Reference Materials for Polycyclic Aromatic Hydrocarbons in Environmental Matrices. <i>Polycyclic Aromatic Compounds</i> , 2001, 19, 297-313.	2.6	11
62	Standard Reference Materials to support measurement of fatty acids. <i>Lipid Technology</i> , 2009, 21, 7-12.	0.3	10
63	Characterization of triacontyl (C-30) liquid chromatographic columns. <i>Journal of Chromatography A</i> , 2020, 1614, 460732.	3.7	10
64	Revisiting shape selectivity in liquid chromatography for polycyclic aromatic hydrocarbons (PAHs) – six-ring and seven-ring Cata-condensed PAH isomers of molecular mass 328 ÅDa and 378 ÅDa. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 885-896.	3.7	10
65	Certification of a Diesel Particulate Related Standard Reference Material (SRM 1975) for PAHs. <i>Polycyclic Aromatic Compounds</i> , 1999, 14, 23-31.	2.6	8
66	Conformational temperature dependence of a poly(ethylene-co-acrylic acid) stationary phase investigated by nuclear magnetic resonance spectroscopy and liquid chromatography. <i>Journal of Separation Science</i> , 2006, 29, 820-828.	2.5	8
67	New Developments in Standard Reference Materials (SRMs) for Environmental Forensics. <i>Environmental Forensics</i> , 2007, 8, 181-191.	2.6	8
68	Dietary Supplement Laboratory Quality Assurance Program: The First Five Exercises. <i>Journal of AOAC INTERNATIONAL</i> , 2011, 94, 803-814.	1.5	8
69	Standard Reference Materials to support US regulations for nutrients and contaminants in food and dietary supplements. <i>Accreditation and Quality Assurance</i> , 2004, 9, 543.	0.8	7
70	Selectivity trends in packed column supercritical fluid chromatography with C18 stationary phases. <i>Journal of High Resolution Chromatography</i> , 1995, 18, 477-482.	1.4	5
71	Certification of morphine-3- ² -D-glucuronide in a human urine standard reference material. <i>Fresenius' Journal of Analytical Chemistry</i> , 1997, 357, 373-378.	1.5	4
72	Immobilization of the restriction enzymes HaeIII and HindIII on porous silica particles via a glutaraldehyde linkage for the micro-digestion of dsDNA with analysis by capillary electrophoresis. <i>Journal of Separation Science</i> , 2001, 24, 10-16.	2.5	4

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73	Development of a Cigarette Tobacco Filler Standard Reference Material. Analytical Chemistry, 2017, 89, 10461-10467.	6.5	4
74	Environmental analysis: Persistent organic pollutants. , 2017, , 401-449.		3
75	Shape Selectivity in Reversed-Phase Liquid Chromatography.. Advances in Chromatography, 2007, 46, 235-303.	1.0	2
76	Separations by Shape: Molecular Shape Recognition in Liquid Chromatography. Chromatographia, 2022, 85, 299-305.	1.3	1