

Jay W Grate

List of Publications by Year in descending order

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163
papers

10,194
citations

31976

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175
all docs

175
docs citations

175
times ranked

8108
citing authors

#	ARTICLE	IF	CITATIONS
1	Dissolved oxygen sensor in an automated hyporheic sampling system reveals biogeochemical dynamics. , 2022, 1, e0000014.		0
2	Mass spectrometric analyses of high performance polymers to assess their radiopurity as ultra low background materials for rare event physics detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 985, 164685.	1.6	3
3	Automated radiochemical separation, analysis, and sensing. , 2020, , 821-872.		2
4	Foldamer Architectures of Triazine-Based Sequence-Defined Polymers Investigated with Molecular Dynamics Simulations and Enhanced Sampling Methods. Journal of Physical Chemistry B, 2019, 123, 9364-9377.	2.6	10
5	Mass spectrometric assay of high radiopurity solid polymer materials for parts in radiation and rare event physics detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 943, 162443.	1.6	8
6	Manipulation of mass transport rates using bead-in-a-tube method. Journal of Chromatography A, 2019, 1586, 139-144.	3.7	0
7	Microfluidic Sensors with Impregnated Fluorophores for Simultaneous Imaging of Spatial Structure and Chemical Oxygen Gradients. ACS Sensors, 2019, 4, 317-325.	7.8	5
8	A review of flow analysis methods for determination of radionuclides in nuclear wastes and nuclear reactor coolants. Talanta, 2018, 183, 70-82.	5.5	30
9	Investigating the role of non-covalent interactions in conformation and assembly of triazine-based sequence-defined polymers. Journal of Chemical Physics, 2018, 149, 072330.	3.0	7
10	The formation of cerium(III) hydroxide nanoparticles by a radiation mediated increase in local pH. RSC Advances, 2017, 7, 3831-3837.	3.6	55
11	Mass Spectrometric Determination of Uranium and Thorium in High Radiopurity Polymers Using Ultra Low Background Electroformed Copper Crucibles for Dry Ashing. Analytical Chemistry, 2017, 89, 3101-3107.	6.5	11
12	Decomposition of diverse solid inorganic matrices with molten ammonium bifluoride salt for constituent elemental analysis. Chemical Geology, 2017, 466, 341-351.	3.3	33
13	Single enzyme nanoparticles armored by a thin silicate network: Single enzyme caged nanoparticles. Chemical Engineering Journal, 2017, 322, 510-515.	12.7	18
14	Direct Visualization of Aggregate Morphology and Dynamics in a Model Soil Organic-Mineral System. Environmental Science and Technology Letters, 2017, 4, 186-191.	8.7	18
15	Efficiently sampling conformations and pathways using the concurrent adaptive sampling (CAS) algorithm. Journal of Chemical Physics, 2017, 147, 074115.	3.0	7
16	Solid matrix transformation and tracer addition using molten ammonium bifluoride salt as a sample preparation method for laser ablation inductively coupled plasma mass spectrometry. Analyst, The, 2017, 142, 3333-3340.	3.5	10
17	Triazine-Based Sequence-Defined Polymers with Side-Chain Diversity and Backbone-Backbone Interaction Motifs. Angewandte Chemie, 2016, 128, 3993-3998.	2.0	22
18	Innentitelbild: Triazine-Based Sequence-Defined Polymers with Side-Chain Diversity and Backbone-Backbone Interaction Motifs (Angew. Chem. 12/2016). Angewandte Chemie, 2016, 128, 3896-3896.	2.0	0

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19	Triazine-Based Sequence-Defined Polymers with Side-Chain Diversity and Backbone-Backbone Interaction Motifs. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3925-3930.	13.8	85
20	Modular polymer biosensors by solvent immersion imprint lithography. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 98-103.	2.1	8
21	LA-ICP-MS analysis of plastics as a method to support polymer assay in the assessment of materials for low-background detectors. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016, 307, 2201-2207.	1.5	6
22	A dry ashing assay method for the trace determination of Th and U in polymers using inductively coupled plasma mass spectrometry. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016, 307, 1883-1890.	1.5	9
23	Controlled Radiolytic Synthesis in the Fluid Stage. Towards Understanding the Effect of the Electron Beam in Liquids. <i>Microscopy and Microanalysis</i> , 2015, 21, 2125-2126.	0.4	0
24	Alexa Fluor-Labeled Fluorescent Cellulose Nanocrystals for Bioimaging Solid Cellulose in Spatially Structured Microenvironments. <i>Bioconjugate Chemistry</i> , 2015, 26, 593-601.	3.6	52
25	Solvent immersion imprint lithography. <i>Lab on A Chip</i> , 2014, 14, 2072.	6.0	21
26	Monolayer-Protected Metal Nanoparticles: Chemical Sensing and Gas Chromatography. , 2014, , 2770-2778.		0
27	Combined, solid-state molecular property and gamma spectrometers for CBRNE detection. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
28	Silane modification of glass and silica surfaces to obtain equally oil-wet surfaces in glass-covered silicon micromodel applications. <i>Water Resources Research</i> , 2013, 49, 4724-4729.	4.2	50
29	Smoothed particle hydrodynamics pore-scale simulations of unstable immiscible flow in porous media. <i>Advances in Water Resources</i> , 2013, 62, 356-369.	3.8	63
30	Comment on "Tunable Generation and Adsorption of Energetic Compounds in the Vapor Phase at Trace Levels: A Tool for Testing and Developing Sensitive and Selective Substrates for Explosive Detection". <i>Analytical Chemistry</i> , 2013, 85, 3013-3015.	6.5	0
31	The vapor pressures of explosives. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 42, 35-48.	11.4	165
32	Chemical sensing and imaging in microfluidic pore network structures relevant to natural carbon cycling and industrial carbon sequestration. , 2013, , .		0
33	Correlation of Oil-Water and Air-Water Contact Angles of Diverse Silanized Surfaces and Relationship to Fluid Interfacial Tensions. <i>Langmuir</i> , 2012, 28, 7182-7188.	3.5	144
34	Automated Radiochemical Separation, Analysis, and Sensing. , 2012, , 1179-1207.		2
35	Automated Radioanalytical System Incorporating Microwave-Assisted Sample Preparation, Chemical Separation, and Online Radiometric Detection for the Monitoring of Total ⁹⁹ Tc in Nuclear Waste Processing Streams. <i>Analytical Chemistry</i> , 2012, 84, 3090-3098.	6.5	11
36	Facile xenon capture and release at room temperature using a metal-organic framework: a comparison with activated charcoal. <i>Chemical Communications</i> , 2012, 48, 347-349.	4.1	172

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37	Vapor-generation methods for explosives-detection research. TrAC - Trends in Analytical Chemistry, 2012, 41, 1-14.	11.4	44
38	Silicon-on-glass pore network micromodels with oxygen-sensing fluorophore films for chemical imaging and defined spatial structure. Lab on A Chip, 2012, 12, 4796.	6.0	24
39	Liquid CO ₂ Displacement of Water in a Dual-Permeability Pore Network Micromodel. Environmental Science & Technology, 2011, 45, 7581-7588.	10.0	138
40	Extraction Chromatographic Methods in the Sample Preparation Sequence for Thermal Ionization Mass Spectrometric Analysis of Plutonium Isotopes. Analytical Chemistry, 2011, 83, 9086-9091.	6.5	30
41	Influence of Viscous and Capillary Forces on Immiscible Fluid Displacement: Pore-Scale Experimental Study in a Water-Wet Micromodel Demonstrating Viscous and Capillary Fingering. Energy & Fuels, 2011, 25, 3493-3505.	5.1	361
42	Advances in assays and analytical approaches for botulinum-toxin detection. TrAC - Trends in Analytical Chemistry, 2010, 29, 1137-1156.	11.4	30
43	Hydrogen-bond acidic functionalized carbon nanotubes (CNTs) with covalently-bound hexafluoroisopropanol groups. Carbon, 2010, 48, 2085-2088.	10.3	23
44	A note on the visualization of wetting film structures and a nonwetting immiscible fluid in a pore network micromodel using a solvatochromic dye. Water Resources Research, 2010, 46, .	4.2	30
45	Radionuclide Sensors and Systems for Environmental Monitoring. ECS Transactions, 2009, 19, 301-304.	0.5	3
46	Characterization and application of SuperLig [®] 620 solid phase extraction resin for automated process monitoring of ⁹⁰ Sr. Journal of Radioanalytical and Nuclear Chemistry, 2009, 282, 623-628.	1.5	14
47	Highly stable trypsin [®] aggregate coatings on polymer nanofibers for repeated protein digestion. Proteomics, 2009, 9, 1893-1900.	2.2	56
48	Quantum dot immunoassays in renewable surface column and 96-well plate formats for the fluorescence detection of botulinum neurotoxin using high-affinity antibodies. Biosensors and Bioelectronics, 2009, 25, 179-184.	10.1	67
49	Rapid Multiplexed Flow Cytometric Assay for Botulinum Neurotoxin Detection Using an Automated Fluidic Microbead-Trapping Flow Cell for Enhanced Sensitivity. Analytical Chemistry, 2009, 81, 5783-5793.	6.5	29
50	Quantification of Technetium-99 in Complex Groundwater Matrixes Using a Radiometric Preconcentrating Minicolumn Sensor in an Equilibration-Based Sensing Approach. Analytical Chemistry, 2009, 81, 1068-1078.	6.5	21
51	Automated Radioanalytical System for the Determination of ⁹⁰ Sr in Environmental Water Samples by ⁹⁰ Y Cherenkov Radiation Counting. Analytical Chemistry, 2009, 81, 1228-1237.	6.5	37
52	Magnetically-separable and highly-stable enzyme system based on crosslinked enzyme aggregates shipped in magnetite-coated mesoporous silica. Journal of Materials Chemistry, 2009, 19, 7864.	6.7	44
53	Renewable surface fluorescence sandwich immunoassay biosensor for rapid sensitive botulinum toxin detection in an automated fluidic format. Analyst, The, 2009, 134, 987.	3.5	36
54	Bead-based assays for biodetection: from flow-cytometry to microfluidics. , 2009, , .		0

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55	Design and Information Content of Arrays of Sorption-Based Vapor Sensors Using Solubility Interactions and Linear Solvation Energy Relationships. , 2009, , 193-218.		6
56	Hydrogen-Bond Acidic Polymers for Chemical Vapor Sensing. Chemical Reviews, 2008, 108, 726-745.	47.7	198
57	Nanobiocatalysis and its potential applications. Trends in Biotechnology, 2008, 26, 639-646.	9.3	392
58	Radionuclide Sensors for Environmental Monitoring: From Flow Injection Solid-Phase Absorptiometry to Equilibration-Based Preconcentrating Minicolumn Sensors with Radiometric Detection. Chemical Reviews, 2008, 108, 543-562.	47.7	51
59	Accelerated Analyte Uptake on Single Beads in Microliter-Scale Batch Separations Using Acoustic Streaming: Plutonium Uptake by Anion Exchange for Analysis by Mass Spectrometry. Analytical Chemistry, 2008, 80, 4070-4077.	6.5	15
60	Biocatalytic Single-Enzyme Nanoparticles. , 2008, , 307-311.		0
61	Monolayer-Protected Metal Nanoparticles. , 2008, , 2460-2468.		0
62	Preconcentrating Minicolumn Sensors for Trace Environmental Monitoring. , 2007, , .		2
63	Crosslinked enzyme aggregates in hierarchically-ordered mesoporous silica: A simple and effective method for enzyme stabilization. Biotechnology and Bioengineering, 2007, 96, 210-218.	3.3	187
64	Equilibration-Based Preconcentrating Minicolumn Sensors for Trace Level Monitoring of Radionuclides and Metal Ions in Water without Consumable Reagents. Analytical Chemistry, 2006, 78, 5480-5490.	6.5	37
65	Single-Walled Carbon Nanotube Paper as a Sorbent for Organic Vapor Preconcentration. Analytical Chemistry, 2006, 78, 2442-2446.	6.5	77
66	Single enzyme nanoparticles in nanoporous silica: A hierarchical approach to enzyme stabilization and immobilization. Enzyme and Microbial Technology, 2006, 39, 474-480.	3.2	63
67	Enzyme-amplified protein microarray and a fluidic renewable surface fluorescence immunoassay for botulinum neurotoxin detection using high-affinity recombinant antibodies. Analytica Chimica Acta, 2006, 570, 137-143.	5.4	42
68	Nanostructures for enzyme stabilization. Chemical Engineering Science, 2006, 61, 1017-1026.	3.8	787
69	Simple Fabrication of a Highly Sensitive and Fast Glucose Biosensor Using Enzymes Immobilized in Mesocellular Carbon Foam. Advanced Materials, 2005, 17, 2828-2833.	21.0	202
70	Chemically enhanced alpha-energy spectroscopy in liquids. Journal of Radioanalytical and Nuclear Chemistry, 2005, 263, 291-294.	1.5	9
71	Direct actinide assay with surface passivated silicon diodes. Journal of Radioanalytical and Nuclear Chemistry, 2005, 263, 295-300.	1.5	1
72	Automated radiochemical analysis of total ⁹⁹ Tc in aged nuclear waste processing streams. Journal of Radioanalytical and Nuclear Chemistry, 2005, 263, 629-633.	1.5	13

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73	Radiochemical sensor system for the analysis of ⁹⁹ Tc(VII) in groundwater. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2005, 264, 495-500.	1.5	13
74	Simple Synthesis of Hierarchically Ordered Mesocellular Mesoporous Silica Materials Hosting Crosslinked Enzyme Aggregates. <i>Small</i> , 2005, 1, 744-753.	10.0	184
75	A Magnetically Separable, Highly Stable Enzyme System Based on Nanocomposites of Enzymes and Magnetic Nanoparticles Shipped in Hierarchically Ordered, Mesocellular, Mesoporous Silica. <i>Small</i> , 2005, 1, 1203-1207.	10.0	106
76	Direct fabrication of enzyme-carrying polymer nanofibers by electrospinning. <i>Journal of Materials Chemistry</i> , 2005, 15, 3241.	6.7	111
77	Progressive Thermal Desorption of Vapor Mixtures from a Preconcentrator with a Porous Metal Foam Internal Architecture and Variable Thermal Ramp Rates. <i>Analytical Chemistry</i> , 2005, 77, 1867-1875.	6.5	14
78	Sensors and Automated Analyzers for Radionuclides. <i>ACS Symposium Series</i> , 2005, , 322-341.	0.5	5
79	Automated methods for multiplexed pathogen detection. <i>Journal of Microbiological Methods</i> , 2005, 62, 303-316.	1.6	64
80	Preparation of biocatalytic nanofibres with high activity and stability via enzyme aggregate coating on polymer nanofibres. <i>Nanotechnology</i> , 2005, 16, S382-S388.	2.6	175
81	Sorptive Properties of Monolayer-Protected Gold Nanoparticle Films for Chemical Vapor Sensors and Arrays. <i>ACS Symposium Series</i> , 2004, , 157-162.	0.5	0
82	Lateral Ordering of Microfabricated SiO ₂ Nanotips. <i>Electrochemical and Solid-State Letters</i> , 2004, 7, C7.	2.2	3
83	Monolayer-protected gold nanoparticles as an efficient stationary phase for open tubular gas chromatography using a square capillary. <i>Journal of Chromatography A</i> , 2004, 1029, 185-192.	3.7	54
84	Microwave-Assisted Sample Treatment in a Fully Automated Flow-Based Instrument: Oxidation of Reduced Technetium Species in the Analysis of Total Technetium-99 in Caustic Aged Nuclear Waste Samples. <i>Analytical Chemistry</i> , 2004, 76, 3869-3877.	6.5	20
85	High-Speed Gas Chromatography Using Synchronized Dual-Valve Injection. <i>Analytical Chemistry</i> , 2004, 76, 3517-3524.	6.5	34
86	Development and evaluation of gold-centered monolayer protected nanoparticle stationary phases for gas chromatography. <i>Journal of Chromatography A</i> , 2004, 1060, 225-236.	3.7	18
87	Development and evaluation of gold-centered monolayer protected nanoparticle stationary phases for gas chromatography. <i>Journal of Chromatography A</i> , 2004, 1060, 225-36.	3.7	4
88	Automation of Radiochemical Analysis: From Groundwater Monitoring to Nuclear Waste Analysis. <i>ACS Symposium Series</i> , 2003, , 246-270.	0.5	8
89	Analysis of combined mass- and volume-transducing sensor arrays. <i>Journal of Chemometrics</i> , 2003, 17, 463-469.	1.3	13
90	Automated sample preparation method for suspension arrays using renewable surface separations with multiplexed flow cytometry fluorescence detection. <i>Analytica Chimica Acta</i> , 2003, 478, 85-98.	5.4	31

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91	Classical least squares transformations of sensor array pattern vectors into vapor descriptors. <i>Analytica Chimica Acta</i> , 2003, 490, 169-184.	5.4	11
92	High-speed gas chromatographic separations with diaphragm valve-based injection and chemometric analysis as a gas chromatographic "sensor". <i>Analytica Chimica Acta</i> , 2003, 490, 223-230.	5.4	32
93	Thin fluoropolymer films and nanoparticle coatings from the rapid expansion of supercritical carbon dioxide solutions with electrostatic collection. <i>Polymer</i> , 2003, 44, 3627-3632.	3.8	33
94	A Sorptive Behavior of Monolayer-Protected Gold Nanoparticle Films Containing Alkanethiols and Alkanedithiols. <i>Analytical Chemistry</i> , 2003, 75, 6759-6759.	6.5	14
95	Single-Enzyme Nanoparticles Armored by a Nanometer-Scale Organic/Inorganic Network. <i>Nano Letters</i> , 2003, 3, 1219-1222.	9.1	277
96	Sorptive Behavior of Monolayer-Protected Gold Nanoparticle Films: Implications for Chemical Vapor Sensing. <i>Analytical Chemistry</i> , 2003, 75, 1868-1879.	6.5	100
97	Monolayer-Protected Gold Nanoparticles as a Stationary Phase for Open Tubular Gas Chromatography. <i>Analytical Chemistry</i> , 2003, 75, 4558-4564.	6.5	71
98	AUTOMATED RADIOCHEMICAL SEPARATION, ANALYSIS, AND SENSING. , 2003, , 1129-1164.		7
99	Steplike Response Behavior of a New Vapochromic Platinum Complex Observed with Simultaneous Acoustic Wave Sensor and Optical Reflectance Measurements. <i>Chemistry of Materials</i> , 2002, 14, 1058-1066.	6.7	63
100	Selective stationary phase for solid-phase microextraction analysis of sarin (GB). <i>Journal of Chromatography A</i> , 2002, 954, 217-225.	3.7	23
101	Inverse Least-Squares Modeling of Vapor Descriptors Using Polymer-Coated Surface Acoustic Wave Sensor Array Responses. <i>Analytical Chemistry</i> , 2001, 73, 5247-5259.	6.5	48
102	Signal Amplification in Multichromophore Luminescence-Based Sensors. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8468-8473.	2.6	18
103	Rational Design of a Nile Red/Polymer Composite Film for Fluorescence Sensing of Organophosphonate Vapors Using Hydrogen Bond Acidic Polymers. <i>Analytical Chemistry</i> , 2001, 73, 3441-3448.	6.5	87
104	Extraction chromatographic separations and analysis of actinides using sequential injection techniques with on-line inductively coupled plasma mass spectrometry (ICP MS) detection. <i>Analyst</i> , The, 2001, 126, 1594-1601.	3.5	58
105	A Method for Chemometric Classification of Unknown Vapors from the Responses of an Array of Volume-Transducing Sensors. <i>Analytical Chemistry</i> , 2001, 73, 2239-2244.	6.5	23
106	Extractive scintillating resin for ⁹⁹ Tc quantification in aqueous solutions. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2001, 249, 181-189.	1.5	32
107	Automated immunomagnetic separation and microarray detection of <i>E. coli</i> O157:H7 from poultry carcass rinse. <i>International Journal of Food Microbiology</i> , 2001, 70, 143-154.	4.7	52
108	<title>Integrated systems for DNA sample preparation and detection in environmental samples</title>. , 2000, 4200, 74.		3

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109	Renewable microcolumns for solid-phase nucleic acid separations and analysis from environmental samples. <i>TrAC - Trends in Analytical Chemistry</i> , 2000, 19, 314-321.	11.4	34
110	Acoustic Wave Microsensor Arrays for Vapor Sensing. <i>Chemical Reviews</i> , 2000, 100, 2627-2648.	47.7	387
111	Rotating Rod Renewable Microcolumns for Automated, Solid-Phase DNA Hybridization Studies. <i>Analytical Chemistry</i> , 2000, 72, 4135-4141.	6.5	31
112	The Fractional Free Volume of the Sorbed Vapor in Modeling the Viscoelastic Contribution to Polymer-Coated Surface Acoustic Wave Vapor Sensor Responses. <i>Analytical Chemistry</i> , 2000, 72, 2861-2868.	6.5	53
113	Separation-optimized sequential injection method for rapid automated analytical separation of ⁹⁰ Sr in nuclear waste. <i>Analyst</i> , 1999, 124, 203-210.	3.5	40
114	Automated extraction chromatographic separations of actinides using separation-optimized sequential injection techniques. <i>Analyst</i> , 1999, 124, 1143-1150.	3.5	42
115	Method for Unknown Vapor Characterization and Classification Using a Multivariate Sorption Detector. Initial Derivation and Modeling Based on Polymer-Coated Acoustic Wave Sensor Arrays and Linear Solvation Energy Relationships. <i>Analytical Chemistry</i> , 1999, 71, 4544-4553.	6.5	72
116	Radionuclide Sensors Based on Chemically Selective Scintillating Microspheres: A Renewable Column Sensor for Analysis of ⁹⁹ Tc in Water. <i>Analytical Chemistry</i> , 1999, 71, 5420-5429.	6.5	59
117	Hydrogen Bond Acidic Polymers for Surface Acoustic Wave Vapor Sensors and Arrays. <i>Analytical Chemistry</i> , 1999, 71, 1033-1040.	6.5	71
118	<title>Sequential injection separation and sensing</title>. , 1999, 3857, 70.		1
119	Investigation and Optimization of On-Column Redox Reactions in the Sorbent Extraction Separation of Americium and Plutonium Using Flow Injection Analysis. <i>Analytical Chemistry</i> , 1998, 70, 3920-3929.	6.5	51
120	Sequential Injection Separation System with Stopped-Flow Radiometric Detection for Automated Analysis of ⁹⁹ Tc in Nuclear Waste. <i>Analytical Chemistry</i> , 1998, 70, 977-984.	6.5	55
121	Peer Reviewed: Automating Analytical Separations in Radiochemistry.. <i>Analytical Chemistry</i> , 1998, 70, 779A-788A.	6.5	44
122	Sequential Injection Renewable Separation Column Instrument for Automated Sorbent Extraction Separations of Radionuclides. <i>Analytical Chemistry</i> , 1998, 71, 345-352.	6.5	58
123	Highly Sorbent Films Derived from Ni(SCN) ₂ (4-picoline) ₄ for the Detection of Chlorinated and Aromatic Hydrocarbons with Quartz Crystal Microbalance Sensors. <i>Analytical Chemistry</i> , 1998, 70, 1268-1276.	6.5	45
124	Comparisons of Polymer/Gas Partition Coefficients Calculated from Responses of Thickness Shear Mode and Surface Acoustic Wave Vapor Sensors. <i>Analytical Chemistry</i> , 1998, 70, 199-203.	6.5	64
125	Development and Calibration of Field-Effect Transistor-Based Sensor Array for Measurement of Hydrogen and Ammonia Gas Mixtures in Humid Air. <i>Analytical Chemistry</i> , 1998, 70, 473-481.	6.5	95
126	Examination of mass and modulus contributions to thickness shear mode and surface acoustic wave vapour sensor responses using partition coefficients. <i>Faraday Discussions</i> , 1997, 107, 259-283.	3.2	49

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127	Hybrid Organic/Inorganic Copolymers with Strongly Hydrogen-Bond Acidic Properties for Acoustic Wave and Optical Sensors. <i>Chemistry of Materials</i> , 1997, 9, 1201-1207.	6.7	81
128	Automated Analysis of Radionuclides in Nuclear Waste: Rapid Determination of ⁹⁰ Sr by Sequential Injection Analysis. <i>Analytical Chemistry</i> , 1996, 68, 333-340.	6.5	81
129	Selective Vapor Sorption by Polymers and Cavitands on Acoustic Wave Sensors: Is This Molecular Recognition?. <i>Analytical Chemistry</i> , 1996, 68, 913-917.	6.5	100
130	Sequential injection method with on-line soil extraction for determination of Cr(VI). <i>Field Analytical Chemistry and Technology</i> , 1996, 1, 39-48.	0.8	15
131	Dewetting Effects on Polymer-Coated Surface Acoustic Wave Vapor Sensors. <i>Analytical Chemistry</i> , 1995, 67, 4015-4019.	6.5	74
132	<title>Solubility properties of siloxane polymers for chemical sensors</title>. , 1995, , .		1
133	Examination of Vapor Sorption by Fullerene, Fullerene-Coated Surface Acoustic Wave Sensors, Graphite, and Low-Polarity Polymers Using Linear Solvation Energy Relationships. <i>Langmuir</i> , 1995, 11, 2125-2130.	3.5	66
134	A flow injection analysis technique for the determination of chloride using reflectance detection. <i>Talanta</i> , 1995, 42, 257-261.	5.5	9
135	Method for Estimating Polymer-Coated Acoustic Wave Vapor Sensor Responses. <i>Analytical Chemistry</i> , 1995, 67, 2162-2169.	6.5	113
136	Hydrogen bonding. Part 29. Characterization of 14 sorbent coatings for chemical microsensors using a new solvation equation. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1995, , 369.	0.9	53
137	Fullerene as an adsorbent for gases and vapours. <i>Journal of the Chemical Society Chemical Communications</i> , 1993, , 1863.	2.0	38
138	Analysis of solvent effects on the decarboxylation of benzisoxazole-3-carboxylate ions using linear solvation energy relationships: relevance to catalysis in an antibody binding site. <i>Journal of the American Chemical Society</i> , 1993, 115, 8577-8584.	13.7	38
139	Smart sensor system for trace organophosphorus and organosulfur vapor detection employing a temperature-controlled array of surface acoustic wave sensors, automated sample preconcentration, and pattern recognition. <i>Analytical Chemistry</i> , 1993, 65, 1868-1881.	6.5	289
140	Acoustic wave microsensors. Part II. <i>Analytical Chemistry</i> , 1993, 65, 987A-996A.	6.5	61
141	Acoustic Wave Microsensors PART II. <i>Analytical Chemistry</i> , 1993, 65, 987A-996A.	6.5	57
142	Acoustic Wave Microsensors. <i>Analytical Chemistry</i> , 1993, 65, 940A-948A.	6.5	215
143	<title>Surface acoustic wave sensor array system for trace organic vapor detection using pattern recognition analysis</title>. , 1993, 1716, 299.		2
144	Frequency-independent and frequency-dependent polymer transitions observed on flexural plate wave ultrasonic sensors. <i>Analytical Chemistry</i> , 1992, 64, 413-423.	6.5	28

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145	The predominant role of swelling-induced modulus changes of the sorbent phase in determining the responses of polymer-coated surface acoustic wave vapor sensors. <i>Analytical Chemistry</i> , 1992, 64, 610-624.	6.5	142
146	Hydrogen bonding. Part 18. Gas-liquid chromatographic measurements for the design and selection of some hydrogen bond acidic phases suitable for use as coatings on piezoelectric sorption detectors. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1991, , 1417-1423.	0.9	49
147	Surface acoustic wave vapor sensors based on resonator devices. <i>Analytical Chemistry</i> , 1991, 63, 1719-1727.	6.5	102
148	Solubility interactions and the design of chemically selective sorbent coatings for chemical sensors and arrays. <i>Sensors and Actuators B: Chemical</i> , 1991, 3, 85-111.	7.8	410
149	Hydrogen bonding. <i>Journal of Chromatography A</i> , 1991, 588, 361-0364.	3.7	41
150	Flexural plate wave devices for chemical analysis. <i>Analytical Chemistry</i> , 1991, 63, 1552-1561.	6.5	64
151	Synthesis and evaluation of hexafluorodimethylcarbinol functionalized polymers as microsensor coatings. <i>Journal of Applied Polymer Science</i> , 1991, 43, 1659-1671.	2.6	40
152	Role of selective sorption in chemiresistor sensors for organophosphorus detection. <i>Analytical Chemistry</i> , 1990, 62, 1927-1934.	6.5	45
153	Langmuir-Blodgett films of a nickel dithiolene complex on chemical microsensors for the detection of hydrazine. <i>Langmuir</i> , 1988, 4, 1293-1301.	3.5	31
154	Detection of hazardous vapors including mixtures using pattern recognition analysis of responses from surface acoustic wave devices. <i>Analytical Chemistry</i> , 1988, 60, 2801-2811.	6.5	158
155	Determination of partition coefficients from surface acoustic wave vapor sensor responses and correlation with gas-liquid chromatographic partition coefficients. <i>Analytical Chemistry</i> , 1988, 60, 869-875.	6.5	246
156	An automated vapor-generation and data collection instrument for the evaluation of chemical microsensors. <i>Sensors and Actuators</i> , 1987, 11, 173-188.	1.7	16
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