

Werner G Kuhr

List of Publications by Year in descending order

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88
all docs

88
docs citations

88
times ranked

3746
citing authors

#	ARTICLE	IF	CITATIONS
1	(Invited) Commercialization of Novel Electrochemical Sensors for Volatile Organics. ECS Transactions, 2017, 80, 1319-1332.	0.3	2
2	Molecular Memories Based on a CMOS Platform. MRS Bulletin, 2004, 29, 838-842.	1.7	21
3	Use of an electrochemically labeled nucleotide terminator for known point mutation analysis. Electrophoresis, 2003, 24, 2749-2757.	1.3	36
4	Independently-addressable micron-sized biosensor elements. Biosensors and Bioelectronics, 2003, 18, 1299-1307.	5.3	19
5	Charge Retention Characteristics of Self-Assembled Monolayers of Molecular Wire-Linked Porphyrins on Gold. ACS Symposium Series, 2003, , 51-61.	0.5	6
6	Performance of Pyrolyzed Photoresist Carbon Films in a Microchip Capillary Electrophoresis Device with Sinusoidal Voltammetric Detection. Analytical Chemistry, 2003, 75, 4265-4271.	3.2	91
7	Rapid fabrication of a poly(dimethylsiloxane) microfluidic capillary gel electrophoresis system utilizing high precision machining. Lab on A Chip, 2003, 3, 93.	3.1	47
8	Measurements of Electron-Transfer Rates of Charge-Storage Molecular Monolayers on Si(100). Toward Hybrid Molecular/Semiconductor Information Storage Devices. Journal of the American Chemical Society, 2003, 125, 505-517.	6.6	204
9	A Microchip Electrophoresis Device with Integrated Electrochemical Detection: A Direct Comparison of Constant Potential Amperometry and Sinusoidal Voltammetry. Analytical Chemistry, 2003, 75, 3301-3307.	3.2	48
10	Electrical characterization of redox-active molecular monolayers on SiO ₂ for memory applications. Applied Physics Letters, 2003, 83, 198-200.	1.5	59
11	Comparison of Electron-Transfer and Charge-Retention Characteristics of Porphyrin-Containing Self-Assembled Monolayers Designed for Molecular Information Storage. Journal of Physical Chemistry B, 2002, 106, 8639-8648.	1.2	84
12	Capacitance and conductance characterization of ferrocene-containing self-assembled monolayers on silicon surfaces for memory applications. Applied Physics Letters, 2002, 81, 1494-1496.	1.5	98
13	A Single Base Extension Technique for the Analysis of Known Mutations Utilizing Capillary Gel Electrophoresis with Electrochemical Detection. Analytical Chemistry, 2002, 74, 3421-3428.	3.2	46
14	Characterization of Charge Storage in Redox-Active Self-Assembled Monolayers. Langmuir, 2002, 18, 4030-4040.	1.6	85
15	Design, synthesis, and characterization of prototypical multistate counters in three distinct architectures Electronic supplementary information (ESI) available: ¹ H NMR and ¹³ C NMR spectra for each dipyrromethane; absorption, LD-MS, and ¹ H NMR spectra for each porphyrin and each triple decker; absorption and LD-MS spectra for each triple-decker dyad. See https://www.rsc.org/suppdata/jm/b1/b100520d/ . Journal of Materials Chemistry, 2002, 12, 808-820.	6.7	56
16	Microchip capillary electrophoresis coupled to sinusoidal voltammetry for the detection of native carbohydrates. Electrophoresis, 2002, 23, 3750-3759.	1.3	45
17	Sinusoidal voltammetry. Journal of Electroanalytical Chemistry, 2002, 531, 119-132.	1.9	30
18	Electrocatalytic Determination of Biochemical Compounds. , 2002, , 87-108.		1

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19	Studies related to the design and synthesis of a molecular octal counter. <i>Journal of Materials Chemistry</i> , 2001, 11, 1162-1180.	6.7	95
20	Capillary Gel Electrophoresis with Sinusoidal Voltammetric Detection: A Strategy To Allow Four-Color DNA Sequencing. <i>Analytical Chemistry</i> , 2001, 73, 4882-4890.	3.2	71
21	Immobilization and detection of DNA on microfluidic chips. <i>Talanta</i> , 2001, 55, 909-918.	2.9	55
22	Electrochemical DNA analysis comes of age. <i>Nature Biotechnology</i> , 2000, 18, 1042-1043.	9.4	47
23	Molecular approach toward information storage based on the redox properties of porphyrins in self-assembled monolayers. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000, 18, 2359.	1.6	105
24	Synthesis of Thiol-Derivatized Ferrocene~Porphyrins for Studies of Multibit Information Storage. <i>Journal of Organic Chemistry</i> , 2000, 65, 7356-7362.	1.7	99
25	Investigation of Tightly Coupled Porphyrin Arrays Comprised of Identical Monomers for Multibit Information Storage. <i>Journal of Organic Chemistry</i> , 2000, 65, 7371-7378.	1.7	56
26	Synthesis of Thiol-Derivatized Porphyrin Dimers and Trimers for Studies of Architectural Effects on Multibit Information Storage. <i>Journal of Organic Chemistry</i> , 2000, 65, 7363-7370.	1.7	55
27	Detection of Native Amino Acids and Peptides Utilizing Sinusoidal Voltammetry. <i>Analytical Chemistry</i> , 2000, 72, 5542-5548.	3.2	48
28	Laser Interference Pattern Ablation of a Carbon Fiber Microelectrode: Biosensor Signal Enhancement after Enzyme Attachment. <i>Analytical Chemistry</i> , 2000, 72, 4914-4920.	3.2	10
29	Synthesis of Thiol-Derivatized Europium Porphyrinic Triple-Decker Sandwich Complexes for Multibit Molecular Information Storage. <i>Journal of Organic Chemistry</i> , 2000, 65, 7379-7390.	1.7	81
30	Segregation of Micrometer-Dimension Biosensor Elements on a Variety of Substrate Surfaces. <i>Analytical Chemistry</i> , 2000, 72, 3253-3259.	3.2	48
31	Synthesis of Porphyrin-Linker-Thiol Molecules with Diverse Linkers for Studies of Molecular-Based Information Storage. <i>Journal of Organic Chemistry</i> , 2000, 65, 7345-7355.	1.7	139
32	Development of sub-micron patterned carbon electrodes for immunoassays. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1999, 19, 83-91.	1.4	10
33	Separation of Double- and Single-Stranded DNA Restriction Fragments: Capillary Electrophoresis with Polymer Solutions under Alkaline Conditions. <i>Analytical Chemistry</i> , 1999, 71, 1668-1673.	3.2	40
34	Preservation of NADH Voltammetry for Enzyme-Modified Electrodes Based on Dehydrogenase. <i>Analytical Chemistry</i> , 1999, 71, 1720-1727.	3.2	58
35	Micrometer Dimension Derivatization of Biosensor Surfaces Using Confocal Dynamic Patterning. <i>Analytical Chemistry</i> , 1999, 71, 2558-2563.	3.2	20
36	Electron transfer kinetics at a biotin/avidin patterned glassy carbon electrode. <i>Biosensors and Bioelectronics</i> , 1998, 13, 1237-1244.	5.3	31

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37	Background-subtraction of fast-scan cyclic staircase voltammetry at protein-modified carbon-fiber electrodes. <i>Biosensors and Bioelectronics</i> , 1998, 13, 1297-1305.	5.3	15
38	A Laser Ablation Method for the Spatial Segregation of Enzyme and Redox Sites on Carbon Fiber Microelectrodes. <i>Analytical Chemistry</i> , 1998, 70, 1133-1140.	3.2	18
39	Characterization of Reaction Dynamics in a Trypsin-Modified Capillary Microreactor. <i>Analytical Chemistry</i> , 1998, 70, 1902-1908.	3.2	34
40	Localized Avidin/Biotin Derivatization of Glassy Carbon Electrodes Using SECM. <i>Analytical Chemistry</i> , 1998, 70, 2601-2606.	3.2	67
41	Direct Electrochemical Detection of Purine- and Pyrimidine-Based Nucleotides with Sinusoidal Voltammetry. <i>Analytical Chemistry</i> , 1997, 69, 3552-3557.	3.2	72
42	Generation of Biotin/Avidin/Enzyme Nanostructures with Maskless Photolithography. <i>Analytical Chemistry</i> , 1997, 69, 2619-2625.	3.2	139
43	Sinusoidal Voltammetry for the Analysis of Carbohydrates at Copper Electrodes. <i>Analytical Chemistry</i> , 1997, 69, 1662-1668.	3.2	43
44	Ultrasensitive Voltammetric Detection of Underivatized Oligonucleotides and DNA. <i>Analytical Chemistry</i> , 1997, 69, 4828-4832.	3.2	107
45	Detection of hydrogen peroxide and other molecules of biological importance at an electrocatalytic surface on a carbon fiber microelectrode. <i>Electroanalysis</i> , 1997, 9, 102-109.	1.5	49
46	Capillary Biosensor for Glutamate. <i>Analytical Chemistry</i> , 1996, 68, 2164-2169.	3.2	43
47	Cyclic voltammetry with harmonic lock-in detection: Applications to flow streams. <i>Electroanalysis</i> , 1996, 8, 314-319.	1.5	13
48	Enzyme-modified microelectrodes for in vivo neurochemical measurements. <i>Electroanalysis</i> , 1995, 7, 405-416.	1.5	86
49	Electrocatalytic Surface for the Oxidation of NADH and Other Anionic Molecules of Biological Significance. <i>Analytical Chemistry</i> , 1995, 67, 3583-3588.	3.2	54
50	Online Microreactors/Capillary Electrophoresis/Mass Spectrometry for the Analysis of Proteins and Peptides. <i>Analytical Chemistry</i> , 1995, 67, 4170-4177.	3.2	97
51	Characterization of the Chemical Architecture of Carbon-Fiber Microelectrodes. 3. Effect of Charge on the Electron-Transfer Properties of ECL Reactions. <i>Analytical Chemistry</i> , 1994, 66, 1996-2004.	3.2	30
52	Optimization of Online Peptide Mapping by Capillary Zone Electrophoresis. <i>Analytical Chemistry</i> , 1994, 66, 4400-4407.	3.2	58
53	Characterization of the chemical architecture of carbon-fiber microelectrodes. 2. Correlation of carboxylate distribution with electron-transfer properties. <i>Analytical Chemistry</i> , 1993, 65, 2452-2458.	3.2	17
54	Dehydrogenase-modified carbon-fiber microelectrodes for the measurement of neurotransmitter dynamics. 1. NADH voltammetry. <i>Analytical Chemistry</i> , 1993, 65, 617-622.	3.2	62

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55	Online peptide mapping by capillary zone electrophoresis. <i>Analytical Chemistry</i> , 1993, 65, 2693-2697.	3.2	67
56	Dehydrogenase-modified carbon-fiber microelectrodes for the measurement of neurotransmitter dynamics. 2. Covalent modification utilizing avidin-biotin technology. <i>Analytical Chemistry</i> , 1993, 65, 623-630.	3.2	115
57	Imaging of electrophoretic flow across a capillary junction. <i>Analytical Chemistry</i> , 1993, 65, 277-282.	3.2	34
58	Trypsin-modified-fused-silica capillary microreactor for peptide mapping by capillary zone electrophoresis. <i>Analytical Chemistry</i> , 1992, 64, 1610-1613.	3.2	129
59	Fluorescence detection in capillary electrophoresis. <i>TrAC - Trends in Analytical Chemistry</i> , 1992, 11, 114-120.	5.8	31
60	Characterization of the chemical architecture of carbon-fiber microelectrodes. 1. Carboxylates. <i>Analytical Chemistry</i> , 1991, 63, 1413-1418.	3.2	26
61	Indirect fluorescence detection in micellar electrokinetic chromatography. <i>Analytical Chemistry</i> , 1991, 63, 1733-1737.	3.2	47
62	INDIRECT DETECTION METHODS FOR CAPILLARY SEPARATIONS. <i>Analytical Chemistry</i> , 1991, 63, 275A-282A.	3.2	120
63	Enzyme-modified carbon-fiber microelectrodes with millisecond response times. <i>Journal of the American Chemical Society</i> , 1991, 113, 1832-1833.	6.6	109
64	Characterization of the oligomeric dispersion of poly(oxyalkylene)diamine polymers by precolumn derivatization and capillary zone electrophoresis with fluorescence detection. <i>Analytical Chemistry</i> , 1990, 62, 2189-2193.	3.2	28
65	In vivo Identification and Quantitative Evaluation of Carrier-Mediated Transport of Lactate at the Cellular Level in the Striatum of Conscious, Freely Moving Rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1988, 8, 848-856.	2.4	102
66	Extracellular Lactic Acid as an Indicator of Brain Metabolism: Continuous On-Line Measurement in Conscious, Freely Moving Rats with Intrastratial Dialysis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1988, 8, 130-137.	2.4	147
67	Differentiation of Dopamine Overflow and Uptake Processes in the Extracellular Fluid of the Rat Caudate Nucleus with Fast-Scan In Vivo Voltammetry. <i>Journal of Neurochemistry</i> , 1988, 51, 1060-1069.	2.1	123
68	The use of in vivo brain dialysis of dopamine, acetylcholine, aminoacids and lactic acid in studies on the neurotoxin 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP). <i>Toxicology</i> , 1988, 49, 503-511.	2.0	21
69	Direct coupling of intracerebral dialysis with flow injection analysis based on enzymatic/fluorescence detection of lactic acid. <i>Analytica Chimica Acta</i> , 1988, 205, 53-59.	2.6	25
70	Optimization of sensitivity and separation in capillary zone electrophoresis with indirect fluorescence detection. <i>Analytical Chemistry</i> , 1988, 60, 2642-2646.	3.2	228
71	Indirect fluorescence detection of native amino acids in capillary zone electrophoresis. <i>Analytical Chemistry</i> , 1988, 60, 1832-1834.	3.2	182
72	N-methyl-D-aspartate receptor involvement in lactate production following ischemia or convulsion in rats. <i>European Journal of Pharmacology</i> , 1988, 155, 145-149.	1.7	31

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73	The effect of L-DOPA on in vivo dopamine release from nigrostriatal bundle neurons. <i>Brain Research</i> , 1988, 447, 191-194.	1.1	32
74	Real-time characterization of dopamine overflow and uptake in the rat striatum. <i>Neuroscience</i> , 1988, 25, 513-523.	1.1	415
75	Dopaminergic neurons: simultaneous measurements of dopamine release and single-unit activity during stimulation of the medial forebrain bundle. <i>Brain Research</i> , 1987, 418, 122-128.	1.1	80
76	Temporal characterization of perfluorinated ion exchange coated microvoltammetric electrodes for in vivo use. <i>Analytical Chemistry</i> , 1987, 59, 1752-1757.	3.2	258
77	Voltammetric Detection of Dopamine Release in the Rat Corpus Striatum. <i>Annals of the New York Academy of Sciences</i> , 1986, 473, 92-105.	1.8	13
78	Real-time measurement of dopamine release in rat brain. <i>Brain Research</i> , 1986, 381, 168-171.	1.1	140
79	Background subtraction for rapid scan voltammetry. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1986, 209, 77-90.	0.3	160
80	Effects of restricted diffusion at ultramicroelectrodes in brain tissue. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1986, 213, 31-42.	0.3	61
81	Monitoring the Stimulated Release of Dopamine with In Vivo Voltammetry. I: Characterization of the Response Observed in the Caudate Nucleus of the Rat. <i>Journal of Neurochemistry</i> , 1984, 43, 560-569.	2.1	143
82	Methods to Improve Electrochemical Reversibility at Carbon Electrodes. <i>Journal of the Electrochemical Society</i> , 1984, 131, 1578-1583.	1.3	171
83	Enhanced electrochemical reversibility at heat-treated glassy carbon electrodes. <i>Analytical Chemistry</i> , 1983, 55, 1632-1634.	3.2	121