

Joel P Golden

List of Publications by Year in descending order

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92
papers

4,550
citations

94381

37
h-index

102432

66
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93
all docs

93
docs citations

93
times ranked

3347
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine Learning Techniques for Chemical Identification Using Cyclic Square Wave Voltammetry. Sensors, 2019, 19, 2392.	2.1	31
2	Application of electrochemical surface plasmon resonance (ESPR) to the study of electroactive microbial biofilms. Physical Chemistry Chemical Physics, 2018, 20, 25648-25656.	1.3	17
3	Characterizing Electron Transport through Living Biofilms. Journal of Visualized Experiments, 2018, , .	0.2	8
4	Microbial Electrochemical Energy Storage and Recovery in a Combined Electrotrophic and Electrogenic Biofilm. Environmental Science and Technology Letters, 2017, 4, 374-379.	3.9	34
5	Imaging Active Surface Processes in Barnacle Adhesive Interfaces. Langmuir, 2016, 32, 541-550.	1.6	31
6	Measuring conductivity of living Geobacter sulfurreducens biofilms. Nature Nanotechnology, 2016, 11, 910-913.	15.6	99
7	Self-Assembly of Protein Nanofibrils Orchestrates Calcite Step Movement through Selective Nonchiral Interactions. ACS Nano, 2015, 9, 5782-5791.	7.3	27
8	Thermally activated long range electron transport in living biofilms. Physical Chemistry Chemical Physics, 2015, 17, 32564-32570.	1.3	108
9	Simultaneous assay for ten bacteria and toxins in spiked clinical samples using a microflow cytometer. Analytical and Bioanalytical Chemistry, 2013, 405, 5611-5614.	1.9	15
10	Automated processing integrated with a microflow cytometer for pathogen detection in clinical matrices. Biosensors and Bioelectronics, 2013, 40, 10-16.	5.3	22
11	Catch and Release: Integrated System for Multiplexed Detection of Bacteria. Analytical Chemistry, 2013, 85, 4944-4950.	3.2	34
12	A microflow cytometer for optical analysis of phytoplankton. Proceedings of SPIE, 2012, , .	0.8	3
13	Hydrodynamic focusing for impedance-based detection of specifically bound microparticles and cells: Implications of fluid dynamics on tunable sensitivity. Sensors and Actuators B: Chemical, 2012, 166-167, 386-393.	4.0	12
14	Hydrodynamic focusing—a versatile tool. Analytical and Bioanalytical Chemistry, 2012, 402, 325-335.	1.9	56
15	Parameters affecting the shape of a hydrodynamically focused stream. Microfluidics and Nanofluidics, 2011, 11, 119-128.	1.0	21
16	Microflow Cytometer for optical analysis of phytoplankton. Biosensors and Bioelectronics, 2011, 26, 4263-4269.	5.3	69
17	Automated sample processing for flow cytometry. , 2011, , .		0
18	Optofluidic characterization of marine algae using a microflow cytometer. Biomicrofluidics, 2011, 5, 32009-320099.	1.2	79

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19	A microflow cytometer on a chip. , 2010, , .		0
20	A hard microflow cytometer using groove-generated sheath flow for multiplexed bead and cell assays. Analytical and Bioanalytical Chemistry, 2010, 398, 1871-1881.	1.9	27
21	Hydrodynamic focusing of conducting fluids for conductivity-based biosensors. Biosensors and Bioelectronics, 2010, 25, 1363-1369.	5.3	26
22	Dynamic reversibility of hydrodynamic focusing for recycling sheath fluid. Lab on A Chip, 2010, 10, 1952.	3.1	31
23	Systems Integration. , 2010, , .		0
24	Multiplexed Detection of Bacteria and Toxins Using a Microflow Cytometer. Analytical Chemistry, 2009, 81, 5426-5432.	3.2	101
25	Multi-wavelength microflow cytometer using groove-generated sheath flow. Lab on A Chip, 2009, 9, 1942.	3.1	140
26	Microflow cytometer. Proceedings of SPIE, 2009, , .	0.8	1
27	Fluoroimmunoassays Using the NRL Array Biosensor. Methods in Molecular Biology, 2009, 503, 273-292.	0.4	3
28	The good, the bad, and the tiny: a review of microflow cytometry. Analytical and Bioanalytical Chemistry, 2008, 391, 1485-1498.	1.9	216
29	Two simple and rugged designs for creating microfluidic sheath flow. Lab on A Chip, 2008, 8, 1097.	3.1	110
30	A combinatorial approach to microfluidic mixing. Journal of Micromechanics and Microengineering, 2008, 18, 115019.	1.5	20
31	The Array Biosensor: Portable, Automated Systems. Analytical Sciences, 2007, 23, 5-10.	0.8	128
32	Blind Laboratory Trials for Multiple Pathogens in Spiked Food Matrices. Analytical Letters, 2007, 40, 3219-3231.	1.0	14
33	Target delivery in a microfluidic immunosensor. Biosensors and Bioelectronics, 2007, 22, 2763-2767.	5.3	60
34	Automated module for hybridization and staining of commercially produced nucleic acid microarrays. Microfluidics and Nanofluidics, 2007, 3, 623-628.	1.0	2
35	A Lagrangian Advection Routine Applied to Microfluidic Component Design. , 2006, , .		3
36	Toolbox for the design of optimized microfluidic components. Lab on A Chip, 2006, 6, 540.	3.1	47

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37	Characterization of passive microfluidic mixers fabricated using soft lithography. <i>Microfluidics and Nanofluidics</i> , 2006, 2, 180-183.	1.0	17
38	Reduction of background signal in automated array biosensors. <i>Measurement Science and Technology</i> , 2005, 16, N29-N31.	1.4	4
39	A "do-it-yourself" array biosensor. <i>Methods</i> , 2005, 37, 65-72.	1.9	27
40	A portable automated multianalyte biosensor. <i>Talanta</i> , 2005, 65, 1078-1085.	2.9	53
41	A microfluidic mixer with grooves placed on the top and bottom of the channel. <i>Lab on A Chip</i> , 2005, 5, 524.	3.1	127
42	A Portable Array Biosensor for Detecting Multiple Analytes in Complex Samples. <i>Microbial Ecology</i> , 2004, 47, 175-185.	1.4	93
43	Fluorescence-based array biosensors for detection of biohazards. <i>Journal of Applied Microbiology</i> , 2004, 96, 47-58.	1.4	70
44	Design and evaluation of a Dean vortex-based micromixer. <i>Lab on A Chip</i> , 2004, 4, 663.	3.1	108
45	Surface-Immobilized Self-Assembled Protein-Based Quantum Dot Nanoassemblies. <i>Langmuir</i> , 2004, 20, 7720-7728.	1.6	85
46	A portable array biosensor for food safety. , 2004, , .		1
47	A portable array biosensor. , 2004, , .		5
48	Array biosensor for detection of toxins. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 377, 469-477.	1.9	268
49	Towards the Design and Implementation of Surface Tethered Quantum Dot-Based Nanosensors. <i>Materials Research Society Symposia Proceedings</i> , 2003, 789, 306.	0.1	0
50	An automated portable array biosensor. , 2003, , .		1
51	<title>Array biosensor for environmental monitoring</title>. , 2002, 4576, 63.		1
52	Integrating Waveguide Biosensor. <i>Analytical Chemistry</i> , 2002, 74, 713-719.	3.2	93
53	Attachment of plastic fluidic components to glass sensing surfaces. <i>Biosensors and Bioelectronics</i> , 2002, 17, 105-110.	5.3	13
54	Voltage-induced inhibition of antigen-antibody binding at conducting optical waveguides. <i>Biosensors and Bioelectronics</i> , 2002, 17, 489-494.	5.3	29

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55	A comparison of imaging methods for use in an array biosensor. Biosensors and Bioelectronics, 2002, 17, 719-725.	5.3	59
56	Fluidics Cube for Biosensor Miniaturization. Analytical Chemistry, 2001, 73, 3776-3780.	3.2	20
57	<title>Array biosensor for simultaneous detection of multiple analytes</title>. , 2001, , .		7
58	A Ganglioside-Based Assay for Cholera Toxin Using an Array Biosensor. Analytical Biochemistry, 2000, 281, 123-133.	1.1	66
59	Array biosensor for detection of biohazards. Biosensors and Bioelectronics, 2000, 14, 785-794.	5.3	170
60	Simultaneous detection of six biohazardous agents using a planar waveguide array biosensor. Biosensors and Bioelectronics, 2000, 15, 579-589.	5.3	158
61	Array Biosensor for Simultaneous Detection of Multiple Analytes. , 2000, , 7-15.		0
62	Array biosensor: optical and fluidics systems. Biomedical Microdevices, 1999, 1, 139-153.	1.4	78
63	Array Biosensor for Simultaneous Identification of Bacterial, Viral, and Protein Analytes. Analytical Chemistry, 1999, 71, 3846-3852.	3.2	283
64	An Array Immunosensor for Simultaneous Detection of Clinical Analytes. Analytical Chemistry, 1999, 71, 433-439.	3.2	243
65	<title>Array biosensor: recent developments</title>. , 1999, , .		3
66	Detection of multiple toxic agents using a planar array immunosensor. Biosensors and Bioelectronics, 1998, 13, 407-415.	5.3	122
67	<title>Array biosensor for multianalyte sensing</title>. , 1998, , .		12
68	Fluorescence Array Biosensor Part 1: Optics and Fluidics. , 1998, , 431-434.		0
69	Fluorescence Array Biosensor Part 2: Biochemistry and Application. , 1998, , 217-220.		1
70	Patterned planar array immunosensor for multianalyte detection. Journal of Biomedical Optics, 1997, 2, 74.	1.4	34
71	Portable multichannel fiber optic biosensor for field detection. Optical Engineering, 1997, 36, 1008.	0.5	54
72	<title>Fiber optic system for rapid analysis of amplified DNA fragments</title>. , 1996, 2680, 278.		0

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73	Simultaneous measurement of Cy5.5-labeled capture antibodies and Cy5-labeled antigens in a fiber optic biosensor: photobleaching and resonance energy transfer effects during fiber regeneration. , 1996, 2676, 148.		0
74	Calibration of Biosensor Response Using Simultaneous Evanescent Wave Excitation of Cyanine-Labeled Capture Antibodies and Antigens. Analytical Biochemistry, 1995, 232, 73-78.	1.1	29
75	Use of three longer-wavelength fluorophores with the fiber-optic biosensor. Sensors and Actuators B: Chemical, 1995, 29, 25-30.	4.0	19
76	Detection of TNT in Water Using an Evanescent Wave Fiber-Optic Biosensor. Analytical Chemistry, 1995, 67, 2431-2435.	3.2	141
77	<title>Fiber optic biosensor for the detection of TNT</title>. , 1995, , .		8
78	An evanescent wave biosensor. I. Fluorescent signal acquisition from step-etched fiber optic probes. IEEE Transactions on Biomedical Engineering, 1994, 41, 578-584.	2.5	50
79	An evanescent wave biosensor. II. Fluorescent signal acquisition from tapered fiber optic probes. IEEE Transactions on Biomedical Engineering, 1994, 41, 585-591.	2.5	79
80	Development of an evanescent wave fiber optic biosensor. IEEE Engineering in Medicine and Biology Magazine, 1994, 13, 358-363.	1.1	49
81	<title>Near-IR biosensor for evanescent wave immunoassays</title>. , 1994, 2138, 241.		2
82	<title>Use of cyanine dyes with evanescent wave fiber optic biosensors</title>. , 1994, , .		3
83	A fiber optic biosensor: combination tapered fibers designed for improved signal acquisition. Biosensors and Bioelectronics, 1993, 8, 249-256.	5.3	88
84	Fiber-Optic Biosensor for the Detection of Hazardous Materials. ImmunoMethods, 1993, 3, 122-127.	0.8	51
85	<title>Evanescent-wave fiber optic biosensor: challenges for real-world sensing</title>. , 1993, , .		7
86	<title>Ray-tracing determination of evanescent-wave penetration depth in tapered fiber optic probes</title>. , 1993, , .		1
87	Progress in Fiber-Optic Based Biosensors at the United States Naval Research Laboratory. , 1993, , 351-357.		0
88	Fluorometer and tapered fiber optic probes for sensing in the evanscent wave. Optical Engineering, 1992, 31, 1458.	0.5	71
89	The Effect of Tapering the Optical Fiber on Evanescent Wave Measurements. Analytical Letters, 1992, 25, 1183-1199.	1.0	41
90	<title>Fiber-optic-based biosensor: signal enhancement in a production model</title>. , 1992, 1648, 39.		6

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91	Resistance of holograms made in dichromated gelatin emulsion to fission neutron damage. Applied Optics, 1990, 29, 4343.	2.1	0
92	Resistance of holograms made in Polaroid DMP128 photopolymer to ionizing radiation damage. Optics Letters, 1988, 13, 949.	1.7	5