

I-Ming Hsing

List of Publications by Year in descending order

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138
papers

7,653
citations

38720

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54882

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139
docs citations

139
times ranked

8016
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Stretchable and Skin Adhesive Soft Bioelectronic Patch for Long-Term Ambulatory Electrocardiography Monitoring. <i>Advanced Materials Technologies</i> , 2022, 7, 2101435.	3.0	10
2	Rapid and highly specific detection of communicable pathogens using one-pot loop probe-mediated isothermal amplification (oLAMP). <i>Sensors and Actuators B: Chemical</i> , 2022, 357, 131385.	4.0	11
3	Unique Barcoded Primer-Assisted Sample-Specific Pooled Testing (Uni-Pool) for Large-Scale Screening of Viral Pathogens. <i>Analytical Chemistry</i> , 2022, 94, 4021-4029.	3.2	2
4	Machine Learning and Data Science in Chemical Engineering. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 8357-8358.	1.8	9
5	Allosteric Regulation of DNA Circuits Enables Minimal and Rapid Biosensors of Small Molecules. <i>ACS Synthetic Biology</i> , 2021, 10, 371-378.	1.9	10
6	CRISPR-Cas Approaches for Diagnostic Applications. , 2021, , 417-452.		0
7	An Insight into Tunable Innate Piezoelectricity of Silk for Green Bioelectronics. <i>ChemPhysChem</i> , 2021, 22, 2266-2280.	1.0	11
8	Detection of rare variant alleles using the AsCas12a double-stranded DNA trans-cleavage activity. <i>Biosensors and Bioelectronics</i> , 2021, 189, 113382.	5.3	18
9	Rational design of allosterically regulated toehold mediated strand displacement circuits for sensitive and on-site detection of small molecule metabolites. <i>Analyst</i> , The, 2021, 146, 7144-7151.	1.7	1
10	Toehold probe-based interrogation for haplotype phasing of long nucleic acid strands. <i>Analytical Methods</i> , 2020, 12, 4185-4190.	1.3	3
11	Oligonucleotide hybridization with magnetic separation assay for multiple SNP phasing. <i>Analytica Chimica Acta: X</i> , 2020, 5, 100050.	2.8	2
12	Organic electrochemical transistor array for monitoring barrier integrity of epithelial cells invaded by nasopharyngeal carcinoma. <i>Sensors and Actuators B: Chemical</i> , 2019, 297, 126761.	4.0	18
13	110th Anniversary: Engineered Ribonucleic Acid Control Elements as Biosensors for <i>In Vitro</i> Diagnostics. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 17174-17181.	1.8	1
14	Thiol-free oligonucleotide surface modification of gold nanoparticles for nanostructure assembly. <i>Nanoscale Advances</i> , 2019, 1, 430-435.	2.2	1
15	Engineering organic electrochemical transistor (OECT) to be sensitive cell-based biosensor through tuning of channel area. <i>Sensors and Actuators A: Physical</i> , 2019, 287, 185-193.	2.0	29
16	Minimally Invasive & Long-Lasting Neural Probes from a Materials Perspective. <i>Electroanalysis</i> , 2019, 31, 586-602.	1.5	7
17	Organic Electrochemical Transistor Arrays for <i>In Vitro</i> Electrophysiology Monitoring of 2D and 3D Cardiac Tissues. <i>Advanced Biology</i> , 2019, 3, e1800248.	3.0	35
18	Integrating DNA strand displacement circuitry to the nonlinear hybridization chain reaction. <i>Nanoscale</i> , 2017, 9, 2748-2754.	2.8	32

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19	Rational Design of Electrochemical DNA Biosensors for Point-of-Care Applications. <i>ChemElectroChem</i> , 2017, 4, 795-805.	1.7	47
20	B ¹² -dependent photoresponsive protein hydrogels for controlled stem cell/protein release. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5912-5917.	3.3	131
21	Kinetically modulated specificity against single-base mutants in nucleic acid recycling circuitry using the destabilization motif. <i>Analyst, The</i> , 2017, 142, 2786-2795.	1.7	0
22	Nucleic Acid Self-Assembly Circuitry Aided by Exonuclease III for Discrimination of Single Nucleotide Variants. <i>Analytical Chemistry</i> , 2017, 89, 12466-12471.	3.2	19
23	Conditional Displacement Hybridization Assay for Multiple SNP Phasing. <i>Analytical Chemistry</i> , 2017, 89, 9961-9966.	3.2	9
24	Kinetically-enhanced DNA detection via multiple-pass exonuclease III-aided target recycling. <i>Analyst, The</i> , 2017, 142, 4782-4787.	1.7	2
25	16-Channel Organic Electrochemical Transistor Array for In Vitro Conduction Mapping of Cardiac Action Potential. <i>Advanced Healthcare Materials</i> , 2016, 5, 2345-2351.	3.9	49
26	Modifying the endogenous electron fluxes of <i>Rhodobacter sphaeroides</i> 2.4.1 for improved electricity generation. <i>Enzyme and Microbial Technology</i> , 2016, 86, 45-51.	1.6	25
27	Microfluidics and microbial engineering. <i>Lab on A Chip</i> , 2016, 16, 432-446.	3.1	62
28	A Universal and Facile Approach for the Formation of a Protein Hydrogel for 3D Cell Encapsulation. <i>Advanced Functional Materials</i> , 2015, 25, 6189-6198.	7.8	21
29	Real-Time Label-Free Monitoring of <i>Shewanella oneidensis</i> MR-1 Biofilm Formation on Electrode During Bacterial Electrogenesis Using Scanning Electrochemical Microscopy. <i>Electroanalysis</i> , 2015, 27, 648-655.	1.5	10
30	Poly(<i>l</i> -lysine)- <i>g</i> -folic acid-coupled poly(2-methyl-2-oxazoline) (PLL- <i>g</i> -PMOXA- <i>c</i> -FA): A Bioactive Copolymer for Specific Targeting to Folate Receptor-Positive Cancer Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 2919-2930.	4.0	46
31	Tackling codon usage bias for heterologous expression in <i>Rhodobacter sphaeroides</i> by supplementation of rare tRNAs. <i>Enzyme and Microbial Technology</i> , 2015, 72, 25-34.	1.6	3
32	Electrochemical Interrogation of Kinetically-Controlled Dendritic DNA/PNA Assembly for Immobilization-Free and Enzyme-Free Nucleic Acids Sensing. <i>ACS Nano</i> , 2015, 9, 5027-5033.	7.3	149
33	Engineering a Freestanding Biomimetic Cardiac Patch Using Biodegradable Poly(lactic acid-co-glycolic acid) (PLGA) and Human Embryonic Stem Cell-derived Ventricular Cardiomyocytes (hESC-VCMs). <i>Macromolecular Bioscience</i> , 2015, 15, 426-436.	2.1	31
34	Rigid and Flexible Organic Electrochemical Transistor Arrays for Monitoring Action Potentials from Electrogenic Cells. <i>Advanced Healthcare Materials</i> , 2015, 4, 528-533.	3.9	80
35	Triggering Hairpin-Free Chain-Branching Growth of Fluorescent DNA Dendrimers for Nonlinear Hybridization Chain Reaction. <i>Journal of the American Chemical Society</i> , 2014, 136, 9810-9813.	6.6	218
36	Statistical Linkage Analysis of Substitutions in Patient-Derived Sequences of Genotype 1a Hepatitis C Virus Nonstructural Protein 3 Exposes Targets for Immunogen Design. <i>Journal of Virology</i> , 2014, 88, 7628-7644.	1.5	34

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37	Organic Electrochemical Transistor Array for Recording Transepithelial Ion Transport of Human Airway Epithelial Cells. <i>Advanced Materials</i> , 2013, 25, 6575-6580.	11.1	59
38	Conformation-Dependent Exonuclease III Activity Mediated by Metal Ions Reshuffling on Thymine-Rich DNA Duplexes for an Ultrasensitive Electrochemical Method for Hg ²⁺ Detection. <i>Analytical Chemistry</i> , 2013, 85, 4586-4593.	3.2	207
39	Autoantibody detection by direct counting of antigen-displayed yeast cells. <i>Analyst, The</i> , 2012, 137, 999-1004.	1.7	2
40	Peak tracking chip for label-free optical detection of bio-molecular interaction and bulk sensing. <i>Analyst, The</i> , 2012, 137, 4785.	1.7	7
41	Ultrasensitive Solution-Phase Electrochemical Molecular Beacon-Based DNA Detection with Signal Amplification by Exonuclease III-Assisted Target Recycling. <i>Analytical Chemistry</i> , 2012, 84, 5216-5220.	3.2	194
42	Staining-free gel electrophoresis-based multiplex enzyme assay using DNA and peptide dual-functionalized gold nanoparticles. <i>Electrophoresis</i> , 2012, 33, 1288-1291.	1.3	5
43	Sensitive immobilization-free electrochemical DNA sensor based on isothermal circular strand displacement polymerization reaction. <i>Biosensors and Bioelectronics</i> , 2012, 35, 230-234.	5.3	63
44	Yeast surface display-based microfluidic immunoassay. <i>Sensors and Actuators B: Chemical</i> , 2012, 166-167, 878-883.	4.0	2
45	Highly active rhodium/carbon nanocatalysts for ethanol oxidation in alkaline medium. <i>Journal of Power Sources</i> , 2011, 196, 7945-7950.	4.0	44
46	Organic Electrochemical Transistors Integrated in Flexible Microfluidic Systems and Used for Label-Free DNA Sensing. <i>Advanced Materials</i> , 2011, 23, 4035-4040.	11.1	278
47	Immobilization-Free Electrochemical DNA Polymerase Assay. <i>Electroanalysis</i> , 2011, 23, 923-926.	1.5	6
48	Real time electrochemical monitoring of PCR amplicons using electroactive hydrolysis probe. <i>Electrochemistry Communications</i> , 2011, 13, 742-745.	2.3	17
49	Synthesis of bimetallic PdAu nanoparticles for formic acid oxidation. <i>Electrochimica Acta</i> , 2011, 56, 2174-2183.	2.6	66
50	Sequence Specific Electrochemical DNA Detection Based on Solution-Phase Competitive Hybridization. <i>Electroanalysis</i> , 2010, 22, 2769-2775.	1.5	6
51	Magnetic particle based electrochemical sensing platform for PCR amplicon detection. <i>Electrochemistry Communications</i> , 2010, 12, 531-534.	2.3	5
52	Nucleotide-mediated size fractionation of gold nanoparticles in aqueous solution. , 2010, , .		0
53	Nucleotide-Mediated Size Fractionation of Gold Nanoparticles in Aqueous Solutions. <i>Langmuir</i> , 2010, 26, 7405-7409.	1.6	23
54	New Immunoassay Platform Utilizing Yeast Surface Display and Direct Cell Counting. <i>Analytical Chemistry</i> , 2010, 82, 9601-9605.	3.2	6

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55	Facile and rapid manipulation of DNA surface density on gold nanoparticles using mononucleotide-mediated conjugation. <i>Chemical Communications</i> , 2010, 46, 1314.	2.2	20
56	Real Time Electrochemical Monitoring of DNA/PNA Dissociation by Melting Curve Analysis. <i>Electroanalysis</i> , 2009, 21, 1557-1561.	1.5	21
57	Size-controlled synthesis and impedance-based mechanistic understanding of Pd/C nanoparticles for formic acid oxidation. <i>Electrochimica Acta</i> , 2009, 55, 210-217.	2.6	64
58	A new photoanode architecture of dye sensitized solar cell based on ZnO nanotetrapods with no need for calcination. <i>Electrochemistry Communications</i> , 2009, 11, 1057-1060.	2.3	94
59	Immobilization-free multiplex electrochemical DNA and SNP detection. <i>Biosensors and Bioelectronics</i> , 2009, 25, 803-808.	5.3	33
60	Rapid Synthesis of DNA-Functionalized Gold Nanoparticles in Salt Solution Using Mononucleotide-Mediated Conjugation. <i>Bioconjugate Chemistry</i> , 2009, 20, 1218-1222.	1.8	52
61	Electrochemical techniques on sequence-specific PCR amplicon detection for point-of-care applications. <i>Analyst</i> , 2009, 134, 1957.	1.7	40
62	Editorial: Electrochemistry in Microsystems. <i>Electroanalysis</i> , 2008, 20, 571-571.	1.5	1
63	Monolithically integrated planar microfuel cell arrays. <i>Sensors and Actuators B: Chemical</i> , 2008, 132, 576-586.	4.0	12
64	Immobilization-Free Sequence-Specific Electrochemical Detection of DNA Using Ferrocene-Labeled Peptide Nucleic Acid. <i>Analytical Chemistry</i> , 2008, 80, 7341-7346.	3.2	97
65	Electrochemistry-Based Real-Time PCR on a Microchip. <i>Analytical Chemistry</i> , 2008, 80, 363-368.	3.2	74
66	Bisphosphonate-containing supramolecular hydrogels for topical decorporation of uranium-contaminated wounds in mice. <i>International Journal of Radiation Biology</i> , 2008, 84, 353-362.	1.0	25
67	TUNGSTEN TRIOXIDE HYDRATE INCORPORATED NAFION COMPOSITE MEMBRANE FOR PROTON EXCHANGE MEMBRANE FUEL CELLS OPERATED ABOVE 100°C. <i>Chemical Engineering Communications</i> , 2007, 194, 667-674.	1.5	7
68	Monolithically Integrated Planar Micro Fuel Cell Arrays. , 2007, , .		1
69	Integrated Proton Exchange Membrane Micro Fuel Cells Towards Low Power Wireless Sensor Network Applications. , 2007, , .		6
70	Formation of Silicon Nanopores and Nanopillars by a Maskless Deep Reactive Ion Etching Process. , 2007, , .		1
71	Tunable Stabilization of Gold Nanoparticles in Aqueous Solutions by Mononucleotides. <i>Langmuir</i> , 2007, 23, 7143-7147.	1.6	63
72	Micro- and Nano- Magnetic Particles for Applications in Biosensing. <i>Electroanalysis</i> , 2007, 19, 755-768.	1.5	201

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73	Catalyzed microelectrode mediated by polypyrrole/Nafion® composite film for microfabricated fuel cell applications. <i>Electrochemistry Communications</i> , 2007, 9, 89-93.	2.3	29
74	Electrochemical and physicochemical characterizations of methanol-tolerant platinum-macrocycle cocatalyst for oxygen reduction. <i>Electrochimica Acta</i> , 2007, 52, 5462-5469.	2.6	8
75	Catalyzed microelectrode mediated by PPy/Nafion® composite film for microfabricated fuel cells. <i>Fuel Cells Bulletin</i> , 2007, 2007, 12-15.	0.7	1
76	Flexible graphite-based integrated anode plate for direct methanol fuel cells at high methanol feed concentration. <i>Journal of Power Sources</i> , 2007, 167, 450-454.	4.0	43
77	Electrochemical Real-Time Polymerase Chain Reaction. <i>Journal of the American Chemical Society</i> , 2006, 128, 13374-13375.	6.6	77
78	Lithography-free silicon micro-pillars as catalyst supports for microfabricated fuel cell applications. <i>Electrochemistry Communications</i> , 2006, 8, 1235-1238.	2.3	23
79	The effect of the Pt deposition method and the support on Pt dispersion on carbon nanotubes. <i>Electrochimica Acta</i> , 2006, 51, 5250-5258.	2.6	109
80	Surfactant-stabilized PtRu colloidal catalysts with good control of composition and size for methanol oxidation. <i>Electrochimica Acta</i> , 2006, 52, 1358-1365.	2.6	37
81	Manipulation and extraction of genomic DNA from cell lysate by functionalized magnetic particles for lab on a chip applications. <i>Biosensors and Bioelectronics</i> , 2006, 21, 989-997.	5.3	68
82	A microsystem compatible strategy for viable <i>Escherichia coli</i> detection. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1163-1170.	5.3	30
83	DNA-based bioanalytical microsystems for handheld device applications. <i>Analytica Chimica Acta</i> , 2006, 556, 26-37.	2.6	75
84	Electrooxidation of formic acid on carbon supported Pt _x Pd _{1-x} (x=0-1) nanocatalysts. <i>Electrochimica Acta</i> , 2006, 51, 3477-3483.	2.6	127
85	Hybrid Nafion®/inorganic oxides membrane doped with heteropolyacids for high temperature operation of proton exchange membrane fuel cell. <i>Solid State Ionics</i> , 2006, 177, 779-785.	1.3	150
86	Label-free protein recognition using an aptamer-based impedance measurement assay. <i>Sensors and Actuators B: Chemical</i> , 2006, 114, 433-437.	4.0	165
87	Influence of anode diffusion layer on the performance of a liquid feed direct methanol fuel cell by AC impedance spectroscopy. <i>International Journal of Energy Research</i> , 2006, 30, 1216-1227.	2.2	25
88	A silicon-based fuel cell micro power system using a microfabrication technique. <i>Journal of Micromechanics and Microengineering</i> , 2006, 16, 2014-2020.	1.5	23
89	A DNA biochip for on-the-spot multiplexed pathogen identification. <i>Nucleic Acids Research</i> , 2006, 34, e118-e118.	6.5	128
90	Well-dispersed surfactant-stabilized Pt/C nanocatalysts for fuel cell application: Dispersion control and surfactant removal. <i>Electrochimica Acta</i> , 2005, 51, 711-719.	2.6	73

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91	A CMOS active pixel sensor based DNA micro-array with nano-metallic particles detection protocol. <i>Solid-State Electronics</i> , 2005, 49, 1933-1936.	0.8	9
92	Internally humidified polymer electrolyte fuel cells using water absorbing sponge. <i>Electrochimica Acta</i> , 2005, 50, 1909-1916.	2.6	60
93	Absorption, Desorption, and Transport of Water in Polymer Electrolyte Membranes for Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2005, 152, A1149.	1.3	230
94	Flow-based and sieving matrix-free DNA differentiation by a miniaturized field flow fractionation device. <i>Lab on A Chip</i> , 2005, 5, 687.	3.1	22
95	Effects of gold nanoparticle and electrode surface properties on electrocatalytic silver deposition for electrochemical DNA hybridization detection. <i>Analyst</i> , 2005, 130, 364.	1.7	39
96	Well-Dispersed Multiwalled Carbon Nanotubes Supported Platinum Nanocatalysts for Oxygen Reduction. <i>Electrochemical and Solid-State Letters</i> , 2004, 7, A286.	2.2	44
97	Electrochemical Detection of PCR Amplicons Using Electroconductive Polymer Modified Electrode and Multiple Nanoparticle Labels. <i>Electroanalysis</i> , 2004, 16, 81-87.	1.5	43
98	Gold Nanoparticle-Catalyzed Silver Electrodeposition on an Indium Tin Oxide Electrode and Its Application in DNA Hybridization Transduction. <i>Electroanalysis</i> , 2004, 16, 1628-1631.	1.5	29
99	Preparation and characterization of hybrid Nafion®-silica membrane doped with phosphotungstic acid for high temperature operation of proton exchange membrane fuel cells. <i>Journal of Membrane Science</i> , 2004, 229, 43-51.	4.1	297
100	Electrochemical investigation of formic acid electro-oxidation and its crossover through a Nafion® membrane. <i>Journal of Electroanalytical Chemistry</i> , 2004, 562, 73-80.	1.9	226
101	Sequence-specific electrochemical recognition of multiple species using nanoparticle labels. <i>Analytica Chimica Acta</i> , 2004, 523, 61-68.	2.6	36
102	Kinetics investigation of H ₂ /CO electrooxidation in PEMFCs by the combined use of equivalent circuit fitting and mathematical modeling of the faradaic impedance. <i>Electrochimica Acta</i> , 2004, 49, 5227-5234.	2.6	13
103	Water Management in PEMFCs Using Absorbent Wicks. <i>Journal of the Electrochemical Society</i> , 2004, 151, B523.	1.3	46
104	Mechanistic Investigation of Nanoparticle Motion in Pulsed Voltage Miniaturized Electrical Field Flow Fractionation Device by in Situ Fluorescence Imaging. <i>Analytical Chemistry</i> , 2004, 76, 2719-2724.	3.2	8
105	Kinetics investigation of H ₂ /CO electro-oxidation on carbon supported Pt and its alloys using impedance based models. <i>Journal of Electroanalytical Chemistry</i> , 2003, 556, 117-126.	1.9	21
106	Synthesis and Characterization of Surfactant-Stabilized Pt/C Nanocatalysts for Fuel Cell Applications. <i>Journal of Physical Chemistry B</i> , 2003, 107, 11057-11064.	1.2	161
107	Enhanced Electrochemical Detection of DNA Hybridization Based on Electrode-Surface Modification. <i>Langmuir</i> , 2003, 19, 4338-4343.	1.6	97
108	Microfabricated PCR-electrochemical device for simultaneous DNA amplification and detection. <i>Lab on A Chip</i> , 2003, 3, 100.	3.1	141

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109	Miniaturized Flow Fractionation Device Assisted by a Pulsed Electric Field for Nanoparticle Separation. <i>Analytical Chemistry</i> , 2002, 74, 5364-5369.	3.2	48
110	Electrochemical Impedance Studies of Methanol Electro-oxidation on Pt/C Thin Film Electrode. <i>Journal of the Electrochemical Society</i> , 2002, 149, A615.	1.3	164
111	Sequence-Specific Electrochemical Detection of Asymmetric PCR Amplicons of Traditional Chinese Medicinal Plant DNA. <i>Analytical Chemistry</i> , 2002, 74, 5057-5062.	3.2	40
112	Genotyping on a Complementary Metal Oxide Semiconductor Silicon Polymerase Chain Reaction Chip with Integrated DNA Microarray. <i>Analytical Chemistry</i> , 2002, 74, 3168-3173.	3.2	91
113	Nafion Membrane Coated with Sulfonated Poly(vinyl alcohol)-Nafion Film for Direct Methanol Fuel Cells. <i>Electrochemical and Solid-State Letters</i> , 2002, 5, A185.	2.2	35
114	An integrated gas sensor technology using surface micro-machining. <i>Sensors and Actuators B: Chemical</i> , 2002, 82, 277-283.	4.0	68
115	An experimental study on high-temperature metallization for micro-hotplate-based integrated gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2002, 86, 1-11.	4.0	26
116	Composite Nafion/polyvinyl alcohol membranes for the direct methanol fuel cell. <i>Journal of Membrane Science</i> , 2002, 210, 147-153.	4.1	164
117	Surfactant stabilized Pt and Pt alloy electrocatalyst for polymer electrolyte fuel cells. <i>Electrochimica Acta</i> , 2002, 47, 2981-2987.	2.6	122
118	Assessment of CO-tolerance for different Pt-alloy anode catalysts in a polymer electrolyte fuel cell using ac impedance spectroscopy. <i>Journal of Electroanalytical Chemistry</i> , 2002, 528, 145-152.	1.9	44
119	Recycling and regeneration of used perfluorosulfonic membranes for polymer electrolyte fuel cells. <i>Journal of Applied Electrochemistry</i> , 2002, 32, 1337-1340.	1.5	25
120	Chips and Qi: microcomponent-based analysis in traditional Chinese medicine. <i>Fresenius' Journal of Analytical Chemistry</i> , 2001, 371, 190-194.	1.5	23
121	Electrochemical characterization of binary carbon supported electrode in polymer electrolyte fuel cells. <i>Journal of Power Sources</i> , 2001, 96, 282-287.	4.0	63
122	An improved TMAH Si-etching solution without attacking exposed aluminum. <i>Sensors and Actuators A: Physical</i> , 2001, 89, 135-141.	2.0	92
123	Sensitive, selective and stable tin dioxide thin-films for carbon monoxide and hydrogen sensing in integrated gas sensor array applications. <i>Sensors and Actuators B: Chemical</i> , 2001, 72, 160-166.	4.0	82
124	Investigation of stability and reliability of tin oxide thin-film for integrated micro-machined gas sensor devices. <i>Sensors and Actuators B: Chemical</i> , 2001, 81, 9-16.	4.0	55
125	Model interpretation of electrochemical impedance spectroscopy and polarization behavior of H ₂ /CO mixture oxidation in polymer electrolyte fuel cells. <i>Electrochimica Acta</i> , 2001, 46, 4397-4405.	2.6	52
126	Investigation and control of microcracks in tin oxide gas sensing thin-films. <i>Sensors and Actuators B: Chemical</i> , 2001, 79, 39-47.	4.0	28

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127	Two-dimensional simulation of water transport in polymer electrolyte fuel cells. <i>Chemical Engineering Science</i> , 2000, 55, 4209-4218.	1.9	98
128	Simulation of micromachined chemical reactors for heterogeneous partial oxidation reactions. <i>Chemical Engineering Science</i> , 2000, 55, 3-13.	1.9	71
129	Two-dimensional finite-element method study of the resistance of membranes in polymer electrolyte fuel cells. <i>Electrochimica Acta</i> , 2000, 45, 1741-1751.	2.6	75
130	Detailed characterization of anodic bonding process between glass and thin-film coated silicon substrates. <i>Sensors and Actuators A: Physical</i> , 2000, 86, 103-107.	2.0	87
131	Precise temperature control of microfluidic chamber for gas and liquid phase reactions. <i>Sensors and Actuators A: Physical</i> , 2000, 84, 11-17.	2.0	78
132	Design issues for membrane-based, gas phase microchemical systems. <i>Chemical Engineering Science</i> , 2000, 55, 3065-3075.	1.9	50
133	A Miniaturized DNA Amplifier: Its Application in Traditional Chinese Medicine. <i>Analytical Chemistry</i> , 2000, 72, 4242-4247.	3.2	53
134	Micromachined reactors for catalytic partial oxidation reactions. <i>AIChE Journal</i> , 1997, 43, 3059-3069.	1.8	243
135	An improved TMAH Si-etching solution without attacking exposed aluminum. , 0, , .		17
136	An integrated gas sensor technology using surface micro-machining. , 0, , .		5
137	Integrated bioanalytical microsystem. , 0, , .		0
138	Integrated fuel cell micro power system by microfabrication technique. , 0, , .		3