

Yosi Shacham-Diamand

List of Publications by Year in descending order

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241
papers

4,360
citations

136950

32
h-index

155660

55
g-index

246
all docs

246
docs citations

246
times ranked

4643
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrodes for Cell Sensors Interfacing. , 2022, , 569-600.		0
2	Drought monitoring in tobacco plants by in-vivo electrochemical biosensor. Sensors and Actuators B: Chemical, 2022, 356, 131357.	7.8	3
3	Farmersâ€™ Survey App - An Interactive Open-Source Application for Agricultural Survey. Communications in Computer and Information Science, 2022, , 419-430.	0.5	0
4	Green Energy-Based Efficient IoT Sensor Network for Small Farms. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2022, , 15-27.	0.3	1
5	Characterization of silane based ultra-thin barrier deposited at elevated temperature. Microelectronic Engineering, 2021, 235, 111468.	2.4	3
6	Soft and flexible gold microelectrodes by supersonic cluster beam deposition and femtosecond laser processing. Microelectronic Engineering, 2021, 237, 111478.	2.4	7
7	Electrochemistry and Microelectronics, Perspective and Prospective. Israel Journal of Chemistry, 2021, 61, 51-59.	2.3	3
8	Mechanical modeling of metal thin films on elastomers for femtosecond laser patterned interconnects. Microelectronic Engineering, 2021, 241, 111534.	2.4	1
9	Gold, Silver, and Electrum Electroless Plating on Additively Manufactured Laser Powder-Bed Fusion AlSi10Mg Parts: A Review. Coatings, 2021, 11, 422.	2.6	16
10	Analysis of in Vivo Plant Stem Impedance Variations in Relation with External Conditions Daily Cycle. , 2021, , .		9
11	On the Interpretation of Four Point Impedance Spectroscopy of Plant Dehydration Monitoring. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2021, 11, 482-492.	3.6	4
12	Electrical Modelling of In-Vivo Impedance Spectroscopy of Nicotiana tabacum Plants. Frontiers in Electronics, 2021, 2, .	3.2	8
13	Guest Editorial Circuits and Systems for Smart Agriculture and Healthy Foods. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2021, 11, 431-434.	3.6	1
14	Towards optimization of plant cell detection in suspensions using impedance-based analyses and the unified equivalent circuit model. Scientific Reports, 2021, 11, 19310.	3.3	2
15	Modification of a Single Atom Affects the Physical Properties of Double Fluorinated Fmoc-Phe Derivatives. International Journal of Molecular Sciences, 2021, 22, 9634.	4.1	9
16	Electrical impedance spectroscopy of plant cells in aqueous buffer media over a wide frequency range of 4ÅHz to 20ÅGHz. MethodsX, 2021, 8, 101185.	1.6	2
17	Guest Editorial Special Issue on Sensors Tutorials: A Vigorous Dive Into the Vast Sea of Sensor-Related Knowledgeâ€”Part I. IEEE Sensors Journal, 2021, 21, 22133-22133.	4.7	0
18	An integrated fluidic electrochemical sensor manufactured using fused filament fabrication and supersonic cluster beam deposition. Sensors and Actuators A: Physical, 2020, 301, 111706.	4.1	5

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19	Electrical Impedance Spectroscopy of plant cells in aqueous biological buffer solutions and their modelling using a unified electrical equivalent circuit over a wide frequency range: 4Hz to 20ÂGHz. <i>Biosensors and Bioelectronics</i> , 2020, 168, 112485.	10.1	16
20	Ultrasensitive Electrochemical Impedance Detection of <i>Mycoplasma agalactiae</i> DNA by Low-Cost and Disposable Au-Decorated NiO Nanowall Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 50143-50151.	8.0	10
21	Fracture strength and fatigue endurance in Gd-doped ceria thermal actuators. <i>Sensors and Actuators A: Physical</i> , 2020, 304, 111885.	4.1	1
22	Phase Transition and Crystallization Kinetics of a Supramolecular System in a Microfluidic Platform. <i>Chemistry of Materials</i> , 2020, 32, 8342-8349.	6.7	22
23	A Study on the Dielectric Behaviour of Plant Cell Suspensions using Wideband Electrical Impedance Spectroscopy (WB-EIS). , 2020, , .		1
24	Role of Substrate in Au Nanoparticle Decoration by Electroless Deposition. <i>Nanomaterials</i> , 2020, 10, 2180.	4.1	7
25	Towards Optimal Green Plant Irrigation: Watering and Body Electrical Impedance. , 2020, , .		13
26	In-Vivo Dehydration Sensing in Transgenic Tobacco Plants using an Integrated Electrochemical Chip. , 2020, , .		3
27	Goldâ€“Silver Electroless Plating on Laser Powder-Bed Fusion Additively Printed AlSi10Mg Parts. <i>Metals</i> , 2020, 10, 557.	2.3	11
28	A platinumâ€“nickel bimetallic nanocluster ensemble-on-polyaniline nanofilm for enhanced electrocatalytic oxidation of dopamine. <i>Nanoscale</i> , 2020, 12, 6047-6056.	5.6	9
29	Gold plating of AlSi10Mg parts produced by a laser powder-bed fusion additive manufacturing technique. <i>Progress in Additive Manufacturing</i> , 2020, 5, 395-404.	4.8	10
30	Feasibility of Signal Transmission for Plant Body Channel Communication in Tobacco. , 2020, , .		2
31	Electrodes for Cell Sensors Interfacing. , 2020, , 1-33.		0
32	Digital Villages: A Data-Driven Approach to Precision Agriculture in Small Farms. , 2020, , .		4
33	An Integrated Electronic Interface for Bio-electrochemical Plant-based Sensors. , 2020, , .		0
34	Plants and Environmental Sensors for Smart Agriculture, an Overview. , 2020, , .		11
35	Four Point Probe Electrical Spectroscopy Based System for Plant Monitoring. , 2019, , .		15
36	Femtosecond laser processing of ceria-based micro actuators. <i>Microelectronic Engineering</i> , 2019, 217, 111126.	2.4	5

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37	Electronic System for Signal Transmission Inside Green Plant Body. , 2019, , .		7
38	Flexible metalized tubes for electromagnetic waveguiding. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 232, 152-155.	2.3	4
39	Volumetric 3D-Printed Antennas, Manufactured via Selective Polymer Metallization. Physica Status Solidi - Rapid Research Letters, 2019, 13, .	2.4	19
40	In-Vivo Monitoring for Electrical Expression of Plant Living Parameters by an Impedance Lab System. , 2019, , .		6
41	Selective Metallization of Graphene-based Polymers for Volumetric 3D-printed Antennas. , 2019, , .		2
42	Highly Conductive Copper Film on Inkjet-Printed Porous Silver Seed for Flexible Electronics. Journal of the Electrochemical Society, 2018, 165, D236-D242.	2.9	5
43	A novel gas-phase mono and bimetallic clusters decorated ZnO nanorods electrochemical sensor for 4-aminophenol detection. Journal of Electroanalytical Chemistry, 2018, 811, 89-95.	3.8	24
44	Holes generation in glass using large spot femtosecond laser pulses. Journal of Micromechanics and Microengineering, 2018, 28, 035009.	2.6	6
45	Alkaline phosphatase detection using electrochemical impedance of anti-alkaline phosphatase antibody (Ab354) functionalized silicon-nanowire-forest in phosphate buffer solution. Sensors and Actuators B: Chemical, 2018, 259, 809-815.	7.8	16
46	Integrated electrochemical Chip-on-Plant functional sensor for monitoring gene expression under stress. Biosensors and Bioelectronics, 2018, 117, 493-500.	10.1	25
47	Local electrochemical control of hydrogel microactuators in microfluidics. Journal of Micromechanics and Microengineering, 2018, 28, 105005.	2.6	9
48	Effect of laser annealing on ZnO nanorods grown by chemical bath deposition on flexible substrate. Applied Surface Science, 2018, 458, 800-804.	6.1	19
49	Towards fully polymeric electroactive micro actuators with conductive polymer electrodes. Microelectronic Engineering, 2018, 199, 58-62.	2.4	9
50	An Amperometric Sensor for Thiocholine Based on Cluster-Assembled Zirconia Modified Electrodes. Journal of Nanoscience and Nanotechnology, 2018, 18, 6905-6912.	0.9	4
51	Embedded Metal Microstructures in Glass Substrates by a Combined Laser Trenching and Printing Process. Journal of Laser Micro Nanoengineering, 2018, 13, .	0.1	0
52	Spectroscopic ellipsometry study of spin coated P(VDF-TrFE-CTFE) thin films and P(VDF-TrFE-CTFE)/PMMA blends. Microelectronic Engineering, 2017, 171, 37-43.	2.4	11
53	Electroless Deposition of CoMoP and CoMoB Alloy Thin Films. ECS Transactions, 2017, 75, 67-76.	0.5	1
54	Self-Aligned Electrochemical Fabrication of Gold Nanoparticle Decorated Polypyrrole Electrode for Alkaline Phosphatase Enzyme Biosensing. Journal of the Electrochemical Society, 2017, 164, B168-B175.	2.9	6

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55	Whole-Cell Electrochemical Biosensor Integrating Microbes with Si Nanowire-Forest. Journal of the Electrochemical Society, 2017, 164, B253-B257.	2.9	9
56	A method of conserving ancient iron artefacts retrieved from shipwrecks using a combination of silane self-assembled monolayers and wax coating. Corrosion Science, 2017, 123, 88-102.	6.6	21
57	Copper interconnections and antennas fabricated by hot-pressing printed copper formate. Flexible and Printed Electronics, 2017, 2, 035007.	2.7	5
58	Flexible Electrochemical Biochip Array of Patterned Gold on Silver Inkjet Printed Polyimide. ECS Transactions, 2017, 77, 893-910.	0.5	0
59	Role of Au _x Pt _{1-x} Clusters in the Enhancement of the Electrochemical Activity of ZnO Nanorod Electrodes. Journal of Physical Chemistry C, 2017, 121, 15644-15652.	3.1	12
60	Copper Metallization of Gold Nanostructure Activated Polypyrrole by Electroless Deposition. Electrochimica Acta, 2017, 246, 1210-1216.	5.2	2
61	Modeling of suspended vs. immobilized whole-cell amperometric biosensors. Sensors and Actuators B: Chemical, 2017, 238, 1248-1257.	7.8	5
62	Tunable resonance-domain diffraction gratings based on electrostrictive polymers. Applied Optics, 2017, 56, 1817.	2.1	1
63	Shift-bonded resonance-domain diffraction gratings. Applied Optics, 2016, 55, 8606.	2.1	2
64	Low temperature poly-silicon thin film transistor flexible sensing circuit. , 2016, , .		4
65	“Cells-on-Beads” A novel immobilization approach for the construction of whole-cell amperometric biosensors. Sensors and Actuators B: Chemical, 2016, 232, 758-764.	7.8	23
66	Impact of Molecular Surface Charge on Biosensing by Electrochemical Impedance Spectroscopy. Electrochimica Acta, 2016, 200, 161-167.	5.2	18
67	Fabrication of a self-sensing electroactive polymer bimorph actuator based on polyvinylidene fluoride and its electrostrictive terpolymer. , 2016, , .		0
68	Rapid laser sintering of metal nano-particles inks. Nanotechnology, 2016, 27, 385201.	2.6	37
69	Performance of Whole-Cell Electrochemical Biosensor Using Integrated Microbes/Si Nano-Forest Structure. ECS Transactions, 2016, 75, 157-164.	0.5	6
70	Highly Disordered Array of Silicon Nanowires: an Effective and Scalable Approach for Performing and Flexible Electrochemical Biosensors. Advanced Healthcare Materials, 2016, 5, 575-583.	7.6	24
71	Investigation of functionalized silicon nanowires by self-assembled monolayer. Applied Surface Science, 2016, 367, 231-236.	6.1	7
72	Engineered hybrid cardiac patches with multifunctional electronics for online monitoring and regulation of tissue function. Nature Materials, 2016, 15, 679-685.	27.5	363

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73	High surface area thermoplastic polymer films fabricated by mechanical tearing using nano-porous silicon. <i>Microelectronic Engineering</i> , 2016, 150, 71-73.	2.4	6
74	Whole-cell amperometric biosensor for screening of cytochrome P450 inhibitors. <i>Sensors and Actuators B: Chemical</i> , 2016, 223, 392-399.	7.8	14
75	Faradaic Impedance Spectroscopy for Detection of Small Molecules Binding using the Avidin-Biotin Model. <i>Electrochimica Acta</i> , 2015, 173, 630-635.	5.2	6
76	A Cardiovascular Occlusion Method Based on the Use of a Smart Hydrogel. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 399-406.	4.2	4
77	Chip level agitation effects on the electrochemical sensing of alkaline-phosphatase expressed from integrated liver tissue. <i>Sensors and Actuators B: Chemical</i> , 2015, 213, 465-473.	7.8	4
78	Processing Issues and the Characterization of Soft Electrochemical 3D Sensor. <i>Electrochimica Acta</i> , 2015, 183, 125-129.	5.2	9
79	Disposable electrochemical sensor prepared using 3D printing for cell and tissue diagnostics. <i>Sensors and Actuators B: Chemical</i> , 2015, 216, 434-442.	7.8	44
80	30 years of electroless plating for semiconductor and polymer micro-systems. <i>Microelectronic Engineering</i> , 2015, 132, 35-45.	2.4	137
81	A study toward the development of an electromechanical poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 427 Td (fluorid Micromechanics and Microengineering, 2014, 24, 125027.	2.6	10
82	A Direct Electrochemical Detection Method of Melanoma Based on Melanoma Biomarker. <i>Electroanalysis</i> , 2014, 26, 1671-1675.	2.9	11
83	Thermoplastic nanoimprint lithography of electroactive polymer poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 347 Td (fluorid Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2014, 13, 033011.	0.9	9
84	Actuation of a novel Pluronic-based hydrogel: Electromechanical response and the role of applied current. <i>Sensors and Actuators B: Chemical</i> , 2014, 191, 650-658.	7.8	18
85	Thin electroless Co(W,P) film growth on titanium nitride layer modified by self-assembled monolayer. <i>Surface and Coatings Technology</i> , 2014, 252, 1-7.	4.8	10
86	Flexible pH sensors based on polysilicon thin film transistors and ZnO nanowalls. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	71
87	Instability Monitoring and Fermi Level Pinning in Phosphate Buffer Saline/Self Assembled Monolayer/Si Electrode System. <i>Electrochimica Acta</i> , 2014, 130, 728-733.	5.2	4
88	Growth study of nanoscale Re-Ni coatings on functionalized SiO ₂ using electroless plating. <i>Applied Surface Science</i> , 2014, 313, 159-165.	6.1	20
89	On the stability of silicon field effect capacitors with phosphate buffered saline electrolytic gate and self assembled monolayer gate insulator. <i>Electrochimica Acta</i> , 2013, 111, 720-728.	5.2	3
90	Silver nanometer-scale thin films by electroless deposition on insulating surfaces activated by gold nanoparticles. <i>Electrochimica Acta</i> , 2013, 113, 792-796.	5.2	4

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91	Functional modeling of electrochemical whole-cell biosensors. <i>Sensors and Actuators B: Chemical</i> , 2013, 181, 479-485.	7.8	9
92	Electrochemical Biochip Characterization of the Effect of Formaldehyde on the Activity of Alkaline Phosphatase. <i>ECS Electrochemistry Letters</i> , 2013, 2, G8-G10.	1.9	4
93	Integrated Polypyrrole Flexible Conductors for Biochips and MEMS Applications. <i>Journal of Atomic, Molecular, and Optical Physics</i> , 2012, 2012, 1-5.	0.5	1
94	Nano-imprinting lithography of P(VDF-TrFE-CFE) for flexible freestanding MEMS devices. <i>Microelectronic Engineering</i> , 2012, 100, 41-46.	2.4	16
95	The relationship between structural evolution and electrical percolation of the initial stages of tungsten chemical vapor deposition on polycrystalline TiN. <i>Applied Physics Letters</i> , 2012, 100, 031907.	3.3	0
96	Sa1865 Colon Cancer Diagnosis by Multiple Biomarker Electrochemical Detection in Biopsy Slices. <i>Gastroenterology</i> , 2012, 142, S-345.	1.3	2
97	Molecular gating of transistors by amine-terminated layers. <i>Applied Surface Science</i> , 2012, 258, 4069-4072.	6.1	1
98	Precipitation of gold nanoparticles on insulating surfaces for metallic ultra-thin film electroless deposition assistance. <i>Applied Surface Science</i> , 2012, 258, 7503-7506.	6.1	6
99	Freestanding smooth micron-scale polydimethylsiloxane (PDMS) membranes by thermal imprinting. <i>Journal of Micromechanics and Microengineering</i> , 2012, 22, 045003.	2.6	14
100	Modified working electrodes for electrochemical whole-cell microchips. <i>Electrochimica Acta</i> , 2012, 82, 109-114.	5.2	10
101	Electroless deposition of silver thin films on gold nanoparticles catalyst for micro and nanoelectronics applications. <i>Microelectronic Engineering</i> , 2012, 98, 570-573.	2.4	19
102	Bioactive anti-inflammatory coating for chronic neural electrodes. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 1854-1858.	4.0	25
103	Surface-modified reusable gold electrode for detection of dissolved oxygen. <i>Journal of Applied Electrochemistry</i> , 2012, 42, 491-499.	2.9	2
104	Resistivity monitoring of the early stages of W CVD nucleation for sub-45nm process. <i>Microelectronic Engineering</i> , 2012, 92, 134-136.	2.4	5
105	Highly corrosion resistant bright silver metallization deposited from a neutral cyanide-free solution. <i>Microelectronic Engineering</i> , 2012, 92, 126-129.	2.4	25
106	A novel algorithm to enhance blurred microscopy images of metallic ultra thin-films microstructures. <i>Microelectronic Engineering</i> , 2012, 92, 145-148.	2.4	2
107	Advanced Metallization Conference 2010 a conference in two sites: AMC 2010 Albany, NY, October 5-7, 2010 and the ADMETA 2010 Tokyo, October 19-22, 2010. <i>Microelectronic Engineering</i> , 2012, 92, 1-2.	2.4	0
108	Electron-Bombarded CMOS Image Sensor in Single Photon Imaging Mode. <i>IEEE Sensors Journal</i> , 2011, 11, 186-193.	4.7	1

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109	Electrochemical Biosensing for Direct Biopsy Slices Screening for Colorectal Cancer Detection. Journal of the Electrochemical Society, 2011, 158, P1.	2.9	19
110	Whole-cell biochips for bio-sensing: integration of live cells and inanimate surfaces. Critical Reviews in Biotechnology, 2011, 31, 337-353.	9.0	45
111	The Chemical and Electrochemical Activity of Citrate on Pt Electrodes. Journal of the Electrochemical Society, 2011, 158, F85.	2.9	24
112	Online Monitoring of Water Toxicity by Use of Bioluminescent Reporter Bacterial Biochips. Environmental Science & Technology, 2011, 45, 8536-8544.	10.0	67
113	Sensitivity of LWR and CD linearity to process conditions in active area. Proceedings of SPIE, 2011, , .	0.8	1
114	The evolution and analysis of electrical percolation threshold in nanometer scale thin films deposited by electroless plating. Materials Chemistry and Physics, 2011, 127, 214-219.	4.0	29
115	An electrochemical impedance model for integrated bacterial biofilms. Electrochimica Acta, 2011, 56, 7780-7786.	5.2	51
116	Signal amelioration of electrophoretically deposited whole-cell biosensors using external electric fields. Electrochimica Acta, 2011, 56, 9666-9672.	5.2	6
117	Microbial genotoxicity bioreporters based on sulA activation. Analytical and Bioanalytical Chemistry, 2011, 400, 3013-3024.	3.7	30
118	Bacterial biofilm-based water toxicity sensor. Sensors and Actuators B: Chemical, 2011, 158, 366-371.	7.8	10
119	Behavioral rehabilitation of the eye closure reflex in senescent rats using a real-time biosignal acquisition system. , 2011, 2011, 4211-4.		7
120	Measurements and sensitivities of LWR in poly spacers. Proceedings of SPIE, 2010, , .	0.8	0
121	Evaluation of chrono-amperometric signal detection for the analysis of genotoxicity by a whole cell biosensor. Analytica Chimica Acta, 2010, 659, 122-128.	5.4	16
122	Bacterial genotoxicity bioreporters. Microbial Biotechnology, 2010, 3, 412-427.	4.2	51
123	Examination of the induced potential gradients across inner and outer cellular interfaces in a realistic 3D cytoplasmic-embedded mitochondrion model. Journal of Electroanalytical Chemistry, 2010, 638, 59-69.	3.8	3
124	Dielectric screening of early differentiation patterns in mesenchymal stem cells induced by steroid hormones. Bioelectrochemistry, 2010, 78, 161-172.	4.6	4
125	Electronically Directed Integration of Whole-Cell Biosensors on Bio-Chips. ECS Transactions, 2010, 33, 49-58.	0.5	0
126	Stochastic signaling in biochemical cascades and genetic systems in genetically engineered living cells. Physical Review E, 2010, 81, 041903.	2.1	0

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127	Nonlinear pH sensitivity of molecular modified transistors. Applied Physics Letters, 2010, 97, 013505.	3.3	0
128	Transistor gating by polar molecular monolayers. Applied Physics Letters, 2010, 97, 053501.	3.3	8
129	Characterization Methods of a Whole-Cell Bioluminescent Biosensor. IEEE Sensors Journal, 2010, 10, 274-280.	4.7	1
130	Theoretical Optimization Method of Buffer Ionic Concentration for Protein Detection Using Field Effect Transistors. Journal of the Electrochemical Society, 2010, 157, J410.	2.9	19
131	VLSI universal signal conditioning circuit for electrochemical and bioluminescent sensors. , 2010, , .		3
132	Optical and Electrical Interfacing Technologies for Living Cell Bio-Chips. Current Pharmaceutical Biotechnology, 2010, 11, 376-383.	1.6	11
133	Direct Biopsy Screening of Colorectal Cancer by Electrochemical Biosensor. ECS Transactions, 2009, 19, 61-68.	0.5	1
134	Fabrication of Electroless CoWP/NiB Diffusion Barrier Layer on SiO[sub 2] for ULSI Devices. Journal of the Electrochemical Society, 2009, 156, H707.	2.9	24
135	Time Effects in the Electrodeposition of CoPt Magnetic Alloys. Electrochemical and Solid-State Letters, 2009, 12, D53.	2.2	7
136	Electrochemical Study and Material Characterization of Electroless CoNiWPB Thin Films. ECS Transactions, 2009, 25, 107-116.	0.5	0
137	Metallization Technologies and Strategies for Plastic Based Biochips, Sensors and Actuators for Healthcare and Medical Applications. ECS Transactions, 2009, 23, 243-254.	0.5	5
138	Challenges in ULSI Interconnects - Introduction to the Book. , 2009, , 3-11.		0
139	Interface states formation in a localized charge trapping nonvolatile memory device. Journal of Vacuum Science & Technology B, 2009, 27, 508.	1.3	4
140	Electrochemical Micro Technologies for Polymeric MEMS and Biochip Applications. ECS Transactions, 2009, 25, 17-21.	0.5	3
141	Process of CoPt Alloys Electrodeposition for MEMS/NEMS Applications. ECS Transactions, 2009, 16, 101-117.	0.5	0
142	On-Chip Detection of Cellular Activity. , 2009, 117, 179-191.		1
143	Future Technology Proposal for Damascene Process Using All Wet Electrochemical Technique. ECS Transactions, 2009, 19, 67-73.	0.5	6
144	Formation and characterization of low resistivity sub-100nm copper films deposited by electroless on SAM. Electrochimica Acta, 2009, 54, 6053-6057.	5.2	36

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145	Electrochemical studies of self-assembled monolayers using impedance spectroscopy. <i>Electrochimica Acta</i> , 2009, 54, 6063-6069.	5.2	38
146	Optical modeling of bioluminescence in whole cell biosensors. <i>Biosensors and Bioelectronics</i> , 2009, 24, 1969-1973.	10.1	24
147	A whole cell electrochemical biosensor for water genotoxicity bio-detection. <i>Electrochimica Acta</i> , 2009, 54, 6113-6118.	5.2	84
148	Nanoindentation and nanowear study of Sn and Ni–Sn coatings. <i>Tribology International</i> , 2009, 42, 779-791.	5.9	26
149	Electrical properties of sub-100nm Cu films deposited by electroless plating on amino-terminated silicon oxide activated with Au nano-particles. <i>Surface and Coatings Technology</i> , 2009, 204, 520-524.	4.8	18
150	The effect of irregularity on the dielectric dispersion characteristics of spherical cellular suspension. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 74, 127-135.	5.0	8
151	Electroless deposition of NiWB alloy on p-type Si(100) for NiSi contact metallization. <i>Electrochimica Acta</i> , 2009, 54, 6036-6041.	5.2	15
152	Theoretical examination of aggregation effect on the dielectric characteristics of spherical cellular suspension. <i>Biophysical Chemistry</i> , 2009, 140, 39-50.	2.8	21
153	Dielectric dispersion of suspended cells using 3D reconstructed morphology model. <i>Bioelectrochemistry</i> , 2009, 75, 95-103.	4.6	14
154	A Novel Microfluidic Whole Cell Biosensor Based on Electrochemical Detection for Water Toxicity Analysis. <i>ECS Transactions</i> , 2009, 16, 187-197.	0.5	2
155	Development of a quantitative optical biochip based on a double integrating sphere system that determines absolute photon number in bioluminescent solution: application to quantum yield scale realization. <i>Applied Optics</i> , 2009, 48, 3216.	2.1	7
156	Temperature dependence of buried channel ion sensitive field effect transistors. <i>Journal of Applied Physics</i> , 2009, 106, 094501.	2.5	3
157	A beyond 60GHz cross-coupled fundamental VCO in 45nm CMOS. , 2009, , .		4
158	Directed Metallization of Single-Enzyme Molecules With Preserved Enzymatic Activity. <i>IEEE Nanotechnology Magazine</i> , 2009, 8, 95-99.	2.0	9
159	Improvement of Temperature Coefficient of Resistance by Co-Implantation of Argon or Xenon or Fluorine in Boron Implanted Polysilicon Resistors. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2009, 22, 305-316.	1.7	3
160	Transistor layout configuration effect on actual gate LER. <i>Proceedings of SPIE</i> , 2009, , .	0.8	1
161	Towards toxicity detection using a lab-on-chip based on the integration of MOEMS and whole-cell sensors. <i>Biosensors and Bioelectronics</i> , 2008, 23, 1631-1636.	10.1	29
162	Stability of the electrodeposition process for CoPt alloy formation. <i>Journal of Applied Electrochemistry</i> , 2008, 38, 1275-1283.	2.9	7

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163	Large angle SOI tilting actuator with integrated motion transformer and amplifier. Sensors and Actuators A: Physical, 2008, 148, 422-436.	4.1	21
164	Site localization of membrane-bound proteins on whole cell level using atomic force microscopy. Biophysical Chemistry, 2008, 132, 127-138.	2.8	7
165	Cell-based screening for membranal and cytoplasmatic markers using dielectric spectroscopy. Biophysical Chemistry, 2008, 135, 59-68.	2.8	21
166	Electrochemical lab on a chip for high-throughput analysis of anticancer drugs efficiency. Nanomedicine: Nanotechnology, Biology, and Medicine, 2008, 4, 121-126.	3.3	30
167	Mechanical analysis and <i>in situ</i> structural and morphological evaluation of Ni-Sn alloy anodes for Li ion batteries. Journal Physics D: Applied Physics, 2008, 41, 025302.	2.8	19
168	Reduction of Ammonium Ion on Pt Electrodes. Journal of the Electrochemical Society, 2008, 155, F223.	2.9	16
169	Electrodeposited Near-Equiatomic CoPt Thick Films. Electrochemical and Solid-State Letters, 2008, 11, D38.	2.2	15
170	Read Disturb in NROM Charge Trapping Non-Volatile Memory Device. , 2008, , .		0
171	Unified retention model for localized charge trapping nonvolatile memory device. Applied Physics Letters, 2008, 92, .	3.3	15
172	Electromagnetic Microactuators With On-Chip Resin-Bonded Permanent Magnets. , 2008, , .		0
173	Localization of membrane-bond OPN using force spectroscopy analysis. Journal of Physics: Conference Series, 2008, 100, 052040.	0.4	0
174	Electrical and Electrochemical Properties of Alkyl-Monolayer Modified Si(111) in the Presence of Water. Journal of the Electrochemical Society, 2007, 154, H919.	2.9	8
175	In Situ Stress Transition Observations of Electrodeposited Sn-Based Anode Materials for Lithium-Ion Secondary Batteries. Electrochemical and Solid-State Letters, 2007, 10, A70.	2.2	34
176	Electroless Diffusion Barrier Process Using SAM on Low-k Dielectrics. Journal of the Electrochemical Society, 2007, 154, D122.	2.9	26
177	An Electrochemical Investigation of Additive Effect in Trench-Filling of ULSI Interconnects by Electroless Copper Deposition. Electrochemistry, 2007, 75, 349-358.	1.4	13
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