Yosi Shacham-Diamand

List of Publications by Year
in descending order

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	Engineered hybrid cardiac patches with multifunctional electronics for online monitoringÂand regulation of tissue function. Nature Materials, 2016, 15, 679-685.	27.5	363
2	Electroless copper deposition for ULSI. Thin Solid Films, 1995, 262, 93-103.	1.8	205
3	30 years of electroless plating for semiconductor and polymer micro-systems. Microelectronic Engineering, 2015, 132, 35-45.	2.4	137
4	Integrated electroless metallization for ULSI. Electrochimica Acta, 1999, 44, 3639-3649.	5.2	101
5	Copper electroless deposition technology for ultra-large-scale-integration (ULSI) metallization. Microelectronic Engineering, 1997, 33, 47-58.	2.4	92
6	Novel Integrated Electrochemical Nano-Biochip for Toxicity Detection in Water. Nano Letters, 2005, 5, 1023-1027.	9.1	87
7	A whole cell electrochemical biosensor for water genotoxicity bio-detection. Electrochimica Acta, 2009, 54, 6113-6118.	5.2	84
8	Electroless processes for micro- and nanoelectronics. Electrochimica Acta, 2003, 48, 2987-2996.	5.2	82
9	Electroless Copper Deposition Using Glyoxylic Acid as Reducing Agent for Ultralarge Scale Integration Metallization. Electrochemical and Solid-State Letters, 1999, 3, 279.	2.2	79
10	Electrochemically deposited thin film alloys for ULSI and MEMS applications. Microelectronic Engineering, 2000, 50, 525-531.	2.4	73
11	Electroless Cu for VLSI. MRS Bulletin, 1993, 18, 31-38.	3.5	72
12	Electroless Silver and Silver with Tungsten Thin Films for Microelectronics and Microelectromechanical System Applications. Journal of the Electrochemical Society, 2000, 147, 3345.	2.9	72
13	Flexible pH sensors based on polysilicon thin film transistors and ZnO nanowalls. Applied Physics Letters, 2014, 105, .	3.3	71
14	Online Monitoring of Water Toxicity by Use of Bioluminescent Reporter Bacterial Biochips. Environmental Science & Technology, 2011, 45, 8536-8544.	10.0	67
15	Evaluation of electroless deposited Co(W,P) thin films as diffusion barriers for copper metallization. Microelectronic Engineering, 2001, 55, 297-303.	2.4	65
16	All-wet fabrication process for ULSI interconnect technologies. Electrochimica Acta, 2005, 51, 916-920.	5.2	62
17	Electrochemical detection of biological reactions using a novel nano-bio-chip array. Sensors and Actuators B: Chemical, 2006, 119, 664-672.	7.8	59
18	Barrier layers for Cu ULSI metallization. Journal of Electronic Materials, 2001, 30, 336-344.	2.2	57

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19	Bacterial genotoxicity bioreporters. Microbial Biotechnology, 2010, 3, 412-427.	4.2	51
20	An electrochemical impedance model for integrated bacterial biofilms. Electrochimica Acta, 2011, 56, 7780-7786.	5.2	51
21	High aspect ratio quarter-micron electroless copper integrated technology. Microelectronic Engineering, 1997, 37-38, 77-88.	2.4	49
22	The effect of tungsten and boron on the Cu barrier and oxidation properties of thin electroless cobaltâ€“tungstenâ€“boron films. Microelectronic Engineering, 2005, 82, 623-628.	2.4	47
23	Void-Free Trench-Filling by Electroless Copper Deposition Using the Combination of Accelerating and Inhibiting Additives. Electrochemical and Solid-State Letters, 2006, 9, C138.	2.2	45
24	Whole-cell biochips for bio-sensing: integration of live cells and inanimate surfaces. Critical Reviews in Biotechnology, 2011, 31, 337-353.	9.0	45
25	Disposable electrochemical sensor prepared using 3D printing for cell and tissue diagnostics. Sensors and Actuators B: Chemical, 2015, 216, 434-442.	7.8	44
26	Electroless Deposition of Thin-Film Cobalt-Tungsten-Phosphorus Layers Using Tungsten Phosphoric Acid (H[sub 3][P(W[sub 3]O[sub 10])[sub 4]]) for ULSI and MEMS Applications. Journal of the Electrochemical Society, 2001, 148, C162.	2.9	40
27	Evidence for â€œsuperfillingâ€•of submicrometer trenches with electroless copper deposit. Applied Physics Letters, 2007, 90, 101916.	3.3	39
28	Electrochemical studies of self-assembled monolayers using impedance spectroscopy. Electrochimica Acta, 2009, 54, 6063-6069.	5.2	38
29	Rapid laser sintering of metal nano-particles inks. Nanotechnology, 2016, 27, 385201.	2.6	37
30	Formation and characterization of low resistivity sub-100nm copper films deposited by electroless on SAM. Electrochimica Acta, 2009, 54, 6053-6057.	5.2	36
31	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
32	Electroless-deposited Agâ€“W films for microelectronics applications. Thin Solid Films, 2001, 389, 213-218.	1.8	33
33	Traps spectroscopy of the Si3Ni4 layer using localized charge-trapping nonvolatile memory device. Applied Physics Letters, 2004, 85, 669-671.	3.3	32
34	Mathematical model of whole cell based bio-chip: An electrochemical biosensor for water toxicity detection. Journal of Electroanalytical Chemistry, 2007, 602, 17-23.	3.8	31
35	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
36	Microbial genotoxicity bioreporters based on sulA activation. Analytical and Bioanalytical Chemistry, 2011, 400, 3013-3024.	3.7	30

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37	Electroless Co(Mo,P) films for Cu interconnect application. Microelectronic Engineering, 2002, 64, 315-320.	2.4	29
38	Towards toxicity detection using a lab-on-chip based on the integration of MOEMS and whole-cell sensors. Biosensors and Bioelectronics, 2008, 23, 1631-1636.	10.1	29
39	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
40	Spatial characterization of localized charge trapping and charge redistribution in the NROM device. Solid-State Electronics, 2004, 48, 1489-1495.	1.4	28
41	Subthreshold slope degradation model for localized-charge-trapping based non-volatile memory devices. Solid-State Electronics, 2003, 47, 937-941.	1.4	27
42	Electroless Diffusion Barrier Process Using SAM on Low-k Dielectrics. Journal of the Electrochemical Society, 2007, 154, D122.	2.9	26
43	Nanoindentation and nanowear study of Sn and Niâ€“Sn coatings. Tribology International, 2009, 42, 779-791.	5.9	26
44	Lateral charge transport in the nitride layer of the NROM non-volatile memory device. Microelectronic Engineering, 2004, 72, 426-433.	2.4	25
45	Bioactive antiâ€inflammatory coating for chronic neural electrodes. Journal of Biomedical Materials Research - Part A, 2012, 100A, 1854-1858.	4.0	25
46	Highly corrosion resistant bright silver metallization deposited from a neutral cyanide-free solution. Microelectronic Engineering, 2012, 92, 126-129.	2.4	25
47	Integrated electrochemical Chip-on-Plant functional sensor for monitoring gene expression under stress. Biosensors and Bioelectronics, 2018, 117, 493-500.	10.1	25
48	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
49	Optical modeling of bioluminescence in whole cell biosensors. Biosensors and Bioelectronics, 2009, 24, 1969-1973.	10.1	24
50	The Chemical and Electrochemical Activity of Citrate on Pt Electrodes. Journal of the Electrochemical Society, 2011, 158, F85.	2.9	24
51	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
52	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
53	The electrodeposition of cobaltâ€“nickelâ€“iron high aspect ratio thick film structures for magnetic MEMS applications. Microelectronic Engineering, 2004, 76, 258-265.	2.4	23
54	â€œCells-on-Beadsâ€ A novel immobilization approach for the construction of whole-cell amperometric biosensors. Sensors and Actuators B: Chemical, 2016, 232, 758-764.	7.8	23

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55	Microstructure and material properties of electroless CoWP films obtained from sulfamate solutions. Microelectronic Engineering, 2006, 83, 2243-2247.	2.4	22
56	Phase Transition and Crystallization Kinetics of a Supramolecular System in a Microfluidic Platform. Chemistry of Materials, 2020, 32, 8342-8349.	6.7	22
57	Electrical resistivity of thin electroless Agâ€“W films for metallization. Microelectronic Engineering, 2003, 70, 495-500.	2.4	21
58	Nanowiring of the Catalytic Site of Novel Molecular Enzymeâ˜Metal Hybrids to Electrodes. Journal of Physical Chemistry C, 2007, 111, 5766-5769.	3.1	21
59	Large angle SOI tilting actuator with integrated motion transformer and amplifier. Sensors and Actuators A: Physical, 2008, 148, 422-436.	4.1	21
60	Cell-based screening for membranal and cytoplasmatic markers using dielectric spectroscopy. Biophysical Chemistry, 2008, 135, 59-68.	2.8	21
61	Theoretical examination of aggregation effect on the dielectric characteristics of spherical cellular suspension. Biophysical Chemistry, 2009, 140, 39-50.	2.8	21
62	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
63	A surface adsorption model for electroless cobalt alloy thin films. Journal of Solid State Electrochemistry, 2007, 11, 929-938.	2.5	20
64	Growth study of nanoscale Reâ€“Ni coatings on functionalized SiO2 using electroless plating. Applied Surface Science, 2014, 313, 159-165.	6.1	20
65	Theory and observation of enhanced, high field hole transport in Si/sub 1-x/Ge/sub x/ quantum well p-MOSFETs. IEEE Transactions on Electron Devices, 1996, 43, 1965-1971.	3.0	19
66	Mechanical analysis andin situstructural and morphological evaluation of Niâ€“Sn alloy anodes for Li ion batteries. Journal Physics D: Applied Physics, 2008, 41, 025302.	2.8	19
67	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
68	Electrochemical Biosensing for Direct Biopsy Slices Screening for Colorectal Cancer Detection. Journal of the Electrochemical Society, 2011, 158, P1.	2.9	19
69	Electroless deposition of silver thin films on gold nanoparticles catalyst for micro and nanoelectronics applications. Microelectronic Engineering, 2012, 98, 570-573.	2.4	19
70	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
71	Volumetric 3Dâ€Printed Antennas, Manufactured via Selective Polymer Metallization. Physica Status Solidi - Rapid Research Letters, 2019, 13, .	2.4	19
72	Electrical properties of sub-100nm Cu films deposited by electroless plating on amino-terminated silicon oxide activated with Au nano-particles. Surface and Coatings Technology, 2009, 204, 520-524.	4.8	18

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73	Actuation of a novel Pluronic-based hydrogel: Electromechanical response and the role of applied current. Sensors and Actuators B: Chemical, 2014, 191, 650-658.	7.8	18
74	Impact of Molecular Surface Charge on Biosensing by Electrochemical Impedance Spectroscopy. Electrochimica Acta, 2016, 200, 161-167.	5.2	18
75	The electrical and material properties of MOS capacitors with electrolessly deposited integrated copper gate. Microelectronic Engineering, 2001, 55, 313-322.	2.4	17
76	Resin-bonded permanent magnetic films with out-of-plane magnetization for MEMS applications. Journal of Magnetism and Magnetic Materials, 2006, 305, 357-360.	2.3	17
77	Electroless and sputtered silverâ€“tungsten thin films for microelectronics applications. Microelectronic Engineering, 2003, 65, 197-207.	2.4	16
78	Reduction of Ammonium Ion on Pt Electrodes. Journal of the Electrochemical Society, 2008, 155, F223.	2.9	16
79	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
80	Nano-imprinting lithography of P(VDFâ€“TrFEâ€“CFE) for flexible freestanding MEMS devices. Microelectronic Engineering, 2012, 100, 41-46.	2.4	16
81	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
82	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. Biosensors and Bioelectronics, 2020, 168, 112485.	10.1	16
83	Gold, Silver, and Electrum Electroless Plating on Additively Manufactured Laser Powder-Bed Fusion AlSi10Mg Parts: A Review. Coatings, 2021, 11, 422.	2.6	16
84	Electrodeposited Near-Equiatomic CoPt Thick Films. Electrochemical and Solid-State Letters, 2008, 11, D38.	2.2	15
85	Unified retention model for localized charge trapping nonvolatile memory device. Applied Physics Letters, 2008, 92, .	3.3	15
86	Electroless deposition of NiWB alloy on p-type Si(100) for NiSi contact metallization. Electrochimica Acta, 2009, 54, 6036-6041.	5.2	15
87	Four Point Probe Electrical Spectroscopy Based System for Plant Monitoring. , 2019, , .		15
88	CoWBP capping barrier layer for sub 90nm Cu interconnects. Microelectronic Engineering, 2007, 84, 2450-2454.	2.4	14
89	NiSi contact metallization using electroless Ni deposition on Pd-activated self-assembled monolayer (SAM) on p-type Si(100). Microelectronic Engineering, 2007, 84, 2506-2510.	2.4	14
90	Dielectric dispersion of suspended cells using 3D reconstructed morphology model. Bioelectrochemistry, 2009, 75, 95-103.	4.6	14

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91	Freestanding smooth micron-scale polydimethylsiloxane (PDMS) membranes by thermal imprinting. Journal of Micromechanics and Microengineering, 2012, 22, 045003.	2.6	14
92	Whole-cell amperometric biosensor for screening of cytochrome P450 inhibitors. Sensors and Actuators B: Chemical, 2016, 223, 392-399.	7.8	14
93	The effect of hydrogen on boron diffusion in SiO2. Journal of Electronic Materials, 1986, 15, 229-233.	2.2	13
94	An Electrochemical Investigation of Additive Effect in Trench-Filling of ULSI Interconnects by Electroless Copper Deposition. Electrochemistry, 2007, 75, 349-358.	1.4	13
95	Deposition of CoPtP films from citric electrolyte. Microelectronic Engineering, 2007, 84, 2444-2449.	2.4	13
96	Towards Optimal Green Plant Irrigation: Watering and Body Electrical Impedance. , 2020, , .		13
97	Material properties of very thin electroless silverâ€“tungsten films. Thin Solid Films, 2003, 426, 288-295.	1.8	12
98	On the mechanism of annealing effect in electrical resistivity of sub-100 nm Ag (1% W) films. Microelectronic Engineering, 2004, 76, 182-189.	2.4	12
99	Role of Au_xPt_{1â€“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
100	Electroless deposition of Co(W) thin films. Microelectronic Engineering, 2003, 70, 512-518.	2.4	11
101	Electrochemical Study of the Mechanism of Ag(W) Electroless Deposition. Journal of the Electrochemical Society, 2007, 154, D1.	2.9	11
102	A Direct Electrochemical Detection Method of Melanoma Based on Melanoma Biomarker. Electroanalysis, 2014, 26, 1671-1675.	2.9	11
103	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
104	Goldâ€“Silver Electroless Plating on Laser Powder-Bed Fusion Additively Printed AlSi10Mg Parts. Metals, 2020, 10, 557.	2.3	11
105	Optical and Electrical Interfacing Technologies for Living Cell Bio-Chips. Current Pharmaceutical Biotechnology, 2010, 11, 376-383.	1.6	11
106	Plants and Environmental Sensors for Smart Agriculture, an Overview. , 2020, , .		11
107	Bacterial biofilm-based water toxicity sensor. Sensors and Actuators B: Chemical, 2011, 158, 366-371.	7.8	10
108	Modified working electrodes for electrochemical whole-cell microchips. Electrochimica Acta, 2012, 82, 109-114.	5.2	10

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109	A study toward the development of an electromechanical poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 Td (fluo Micromechanics and Microengineering, 2014, 24, 125027.	2.6	10
110	Thin electroless Co(W,P) film growth on titaniumâ€“nitride layer modified by self-assembled monolayer. Surface and Coatings Technology, 2014, 252, 1-7.	4.8	10
111	Ultrasensitive Electrochemical Impedance Detection of Mycoplasma agalactiae DNA by Low-Cost and Disposable Au-Decorated NiO Nanowall Electrodes. ACS Applied Materials & Interfaces, 2020, 12, 50143-50151.	8.0	10
112	Gold plating of AlSi10Mg parts produced by a laser powder-bed fusion additive manufacturing technique. Progress in Additive Manufacturing, 2020, 5, 395-404.	4.8	10
113	Directed Metallization of Single-Enzyme Molecules With Preserved Enzymatic Activity. IEEE Nanotechnology Magazine, 2009, 8, 95-99.	2.0	9
114	Functional modeling of electrochemical whole-cell biosensors. Sensors and Actuators B: Chemical, 2013, 181, 479-485.	7.8	9
115	Thermoplastic nanoimprint lithography of electroactive polymer poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 507 T Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2014, 13, 033011.	0.9	9
116	Processing Issues and the Characterization of Soft Electrochemical 3D Sensor. Electrochimica Acta, 2015, 183, 125-129.	5.2	9
117	Whole-Cell Electrochemical Biosensor Integrating Microbes with Si Nanowire-Forest. Journal of the Electrochemical Society, 2017, 164, B253-B257.	2.9	9
118	Local electrochemical control of hydrogel microactuators in microfluidics. Journal of Micromechanics and Microengineering, 2018, 28, 105005.	2.6	9
119	Towards fully polymeric electroactive micro actuators with conductive polymer electrodes. Microelectronic Engineering, 2018, 199, 58-62.	2.4	9
120	A platinumâ€“nickel bimetallic nanocluster ensemble-on-polyaniline nanofilm for enhanced electrocatalytic oxidation of dopamine. Nanoscale, 2020, 12, 6047-6056.	5.6	9
121	Analysis of in Vivo Plant Stem Impedance Variations in Relation with External Conditions Daily Cycle. , 2021, , .		9
122	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
123	Role of local microchemistry and surface structure in electrical resistivity of 50nm electroless films Agâ€“Wâ€“oxygen. Microelectronic Engineering, 2005, 82, 307-313.	2.4	8
124	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
125	The effect of irregularity on the dielectric dispersion characteristics of spherical cellular suspension. Colloids and Surfaces B: Biointerfaces, 2009, 74, 127-135.	5.0	8
126	Transistor gating by polar molecular monolayers. Applied Physics Letters, 2010, 97, 053501.	3.3	8

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127	Electrical Modelling of In-Vivo Impedance Spectroscopy of Nicotiana tabacum Plants. Frontiers in Electronics, 2021, 2, .	3.2	8
128	Modeling and Simulation of Multiple Chemical States in Photoresist Materials. , 1989, 1086, 262.		7
129	Evaluation of the initial growth of electroless deposited Co(W,P) diffusion barrier thin film for Cu metallization. Journal of Solid State Chemistry, 2006, 179, 4056-4065.	2.9	7
130	Stability of the electrodeposition process for CoPt alloy formation. Journal of Applied Electrochemistry, 2008, 38, 1275-1283.	2.9	7
131	Site localization of membrane-bound proteins on whole cell level using atomic force microscopy. Biophysical Chemistry, 2008, 132, 127-138.	2.8	7
132	Time Effects in the Electrodeposition of CoPt Magnetic Alloys. Electrochemical and Solid-State Letters, 2009, 12, D53.	2.2	7
133	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. Applied Optics, 2009, 48, 3216.	2.1	7
134	Behavioral rehabilitation of the eye closure reflex in senescent rats using a real-time biosignal acquisition system. , 2011, 2011, 4211-4.		7
135	Investigation of functionalized silicon nanowires by self-assembled monolayer. Applied Surface Science, 2016, 367, 231-236.	6.1	7
136	Electronic System for Signal Transmission Inside Green Plant Body. , 2019, , .		7
137	Role of Substrate in Au Nanoparticle Decoration by Electroless Deposition. Nanomaterials, 2020, 10, 2180.	4.1	7
138	Soft and flexible gold microelectrodes by supersonic cluster beam deposition and femtosecond laser processing. Microelectronic Engineering, 2021, 237, 111478.	2.4	7
139	Retention loss characteristics of localized charge-trapping devices. , 0, , .		6
140	Whole-cell luminescence biosensor-based lab-on-chip integrated system for water toxicity analysis. , 2006, , .		6
141	Multiple aspect-ratio structural integration in single crystal silicon (MASIS) for fabrication of transmissive MOEMS modulators. Microsystem Technologies, 2007, 14, 287-293.	2.0	6
142	Future Technology Proposal for Damascene Process Using All Wet Electrochemical Technique. ECS Transactions, 2009, 19, 67-73.	0.5	6
143	Signal amelioration of electrophoretically deposited whole-cell biosensors using external electric fields. Electrochimica Acta, 2011, 56, 9666-9672.	5.2	6
144	Precipitation of gold nanoparticles on insulating surfaces for metallic ultra-thin film electroless deposition assistance. Applied Surface Science, 2012, 258, 7503-7506.	6.1	6

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145	Faradaic Impedance Spectroscopy for Detection of Small Molecules Binding using the Avidin-Biotin Model. Electrochimica Acta, 2015, 173, 630-635.	5.2	6
146	Performance of Whole-Cell Electrochemical Biosensor Using Integrated Microbes/Si Nano-Forest Structure. ECS Transactions, 2016, 75, 157-164.	0.5	6
147	High surface area thermoplastic polymer films fabricated by mechanical tearing using nano-porous silicon. Microelectronic Engineering, 2016, 150, 71-73.	2.4	6
148	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
149	Holes generation in glass using large spot femtosecond laser pulses. Journal of Micromechanics and Microengineering, 2018, 28, 035009.	2.6	6
150	In-Vivo Monitoring for Electrical Expression of Plant Living Parameters by an Impedance Lab System. , 2019, , .		6
151	<title>Electroless Cu and barrier layers for subhalf-micron multilevel interconnects</title>. , 1997, 3214, 21.		5
152	Properties of 50nm electroless films Agâ€“Wâ€“oxygen before and after low temperature, low activation energy resistivity decay. Microelectronic Engineering, 2006, 83, 2359-2363.	2.4	5
153	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
154	Resistivity monitoring of the early stages of W CVD nucleation for sub-45nm process. Microelectronic Engineering, 2012, 92, 134-136.	2.4	5
155	Copper interconnections and antennas fabricated by hot-pressing printed copper formate. Flexible and Printed Electronics, 2017, 2, 035007.	2.7	5
156	Modeling of suspended vs. immobilized whole-cell amperometric biosensors. Sensors and Actuators B: Chemical, 2017, 238, 1248-1257.	7.8	5
157	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
158	Femtosecond laser processing of ceria-based micro actuators. Microelectronic Engineering, 2019, 217, 111126.	2.4	5
159	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
160	A Concept for a Sensitive Micro Total Analysis System for High Throughput Fluorescence Imaging. Sensors, 2006, 6, 341-349.	3.8	4
161	Interface states formation in a localized charge trapping nonvolatile memory device. Journal of Vacuum Science & Technology B, 2009, 27, 508.	1.3	4
162	A beyond 60GHz cross-coupled fundamental VCO in 45nm CMOS. , 2009, , .		4

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163	Dielectric screening of early differentiation patterns in mesenchymal stem cells induced by steroid hormones. Bioelectrochemistry, 2010, 78, 161-172.	4.6	4
164	Silver nanometer-scale thin films by electroless deposition on insulating surfaces activated by gold nanoparticles. Electrochimica Acta, 2013, 113, 792-796.	5.2	4
165	Electrochemical Biochip Characterization of the Effect of Formaldehyde on the Activity of Alkaline Phosphatase. ECS Electrochemistry Letters, 2013, 2, G8-G10.	1.9	4
166	Instability Monitoring and Fermi Level Pinning in Phosphate Buffer Saline/Self Assembled Monolayer/Si Electrode System. Electrochimica Acta, 2014, 130, 728-733.	5.2	4
167	A Cardiovascular Occlusion Method Based on the Use of a Smart Hydrogel. IEEE Transactions on Biomedical Engineering, 2015, 62, 399-406.	4.2	4
168	Chip level agitation effects on the electrochemical sensing of alkaline-phosphatase expressed from integrated liver tissue. Sensors and Actuators B: Chemical, 2015, 213, 465-473.	7.8	4
169	Low temperature poly-silicon thin film transistor flexible sensing circuit. , 2016, , .		4
170	An Amperometric Sensor for Thiocholine Based on Cluster-Assembled Zirconia Modified Electrodes. Journal of Nanoscience and Nanotechnology, 2018, 18, 6905-6912.	0.9	4
171	Flexible metalized tubes for electromagnetic waveguiding. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 232, 152-155.	2.3	4
172	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
173	Digital Villages: A Data-Driven Approach to Precision Agriculture in Small Farms. , 2020, , .		4
174	The Reliability of Aluminum/Tungsten Technology for VLSI Applications. MRS Bulletin, 1995, 20, 78-82.	3.5	3
175	Bioluminescence Detection Using a Novel MEMS Modulation Technique. IEEE Photonics Technology Letters, 2006, 18, 2011-2013.	2.5	3
176	Fabrication of the Electroless NiMoB Films as a Diffusion Barrier Layer on the Low-k Substrate. ECS Transactions, 2006, 1, 57-67.	0.5	3
177	Electrochemical Micro Technologies for Polymeric MEMS and Biochip Applications. ECS Transactions, 2009, 25, 17-21.	0.5	3
178	Temperature dependence of buried channel ion sensitive field effect transistors. Journal of Applied Physics, 2009, 106, 094501.	2.5	3
179	Improvement of Temperature Coefficient of Resistance by Co-Implantation of Argon or Xenon or Fluorine in Boron Implanted Polysilicon Resistors. IEEE Transactions on Semiconductor Manufacturing, 2009, 22, 305-316.	1.7	3
180	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

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