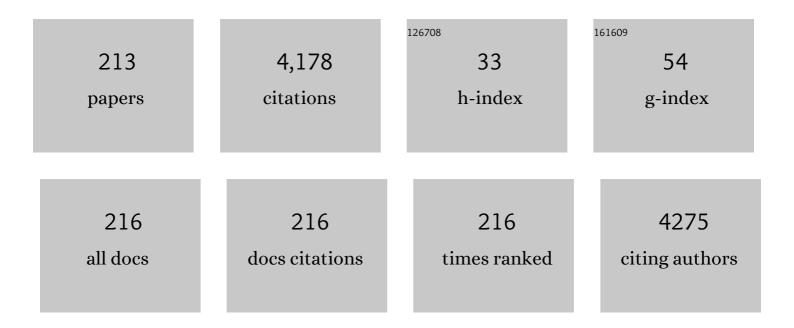
Dimitris Tsoukalas

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Breath Analysis: A Promising Tool for Disease Diagnosis—The Role of Sensors. Sensors, 2022, 22, 1238.	2.1	41
2	Low Power Stochastic Neurons From SiO ₂ -Based Bilayer Conductive Bridge Memristors for Probabilistic Spiking Neural Network Applications—Part II: Modeling. IEEE Transactions on Electron Devices, 2022, 69, 2368-2376.	1.6	9
3	Low Power Stochastic Neurons From SiO ₂ -Based Bilayer Conductive Bridge Memristors for Probabilistic Spiking Neural Network Applications—Part I: Experimental Characterization. IEEE Transactions on Electron Devices, 2022, 69, 2360-2367.	1.6	11
4	Chemical Wave Computing from Labware to Electrical Systems. Electronics (Switzerland), 2022, 11, 1683.	1.8	3
5	Memristor-based Oscillator for Complex Chemical Wave Logic Computations: Fredkin Gate Paradigm. , 2022, , .		Ο
6	Demonstration of Enhanced Switching Variability and Conductance Quantization Properties in a SiO ₂ Conducting Bridge Resistive Memory with Embedded Two-Dimensional MoS ₂ Material. ACS Applied Electronic Materials, 2022, 4, 2869-2878.	2.0	0
7	Material design strategies for emulating neuromorphic functionalities with resistive switching memories. Japanese Journal of Applied Physics, 2022, 61, SM0806.	0.8	4
8	Emulating low power nociceptive functionalities with a forming-free SiO2/VO <i>x</i> conductive bridge memory with Pt nanoparticles. Applied Physics Letters, 2022, 120, .	1.5	5
9	Laser-matter interactions. , 2021, , 49-78.		2
10	Resistive crack-based nanoparticle strain sensors with extreme sensitivity and adjustable gauge factor, made on flexible substrates. Nanoscale, 2021, 13, 3263-3274.	2.8	34
11	Emulating artificial neuron and synaptic properties with SiO ₂ -based memristive devices by tuning threshold and bipolar switching effects. Journal Physics D: Applied Physics, 2021, 54, 225303.	1.3	23
12	Emulating Artificial Synaptic Plasticity Characteristics from SiO2-Based Conductive Bridge Memories with Pt Nanoparticles. Micromachines, 2021, 12, 306.	1.4	10
13	Tuning the analog synaptic properties of forming free SiO2 memristors by material engineering. Applied Physics Letters, 2021, 118, .	1.5	20
14	Impact of Active Electrode on the Synaptic Properties of SiO ₂ -Based Forming-Free Conductive Bridge Memory. IEEE Transactions on Electron Devices, 2021, 68, 1598-1603.	1.6	15
15	Simulation tool for predicting and optimizing the performance of nanoparticle based strain sensors. Nanotechnology, 2021, 32, 275501.	1.3	6
16	Highly Flexible Artificial Synapses from SiO ₂ -Based Conductive Bridge Memristors and Pt Nanoparticles through a Crack Suppression Technique. ACS Applied Electronic Materials, 2021, 3, 2729-2737.	2.0	7
17	Unconventional Logic on Memristor-Based Oscillatory Medium. , 2021, , .		1
18	Identification of Two Commercial Pesticides by a Nanoparticle Gas-Sensing Array. Sensors, 2021, 21, 5803.	2.1	5

#	Article	IF	CITATIONS
19	Emulating artificial mechanoreceptor functionalities from SiO2-based memristor and PDMS stretchable sensor for artificial skin applications. , 2021, , .		0
20	Multifunctional Spatially-Expanded Logic Gate for Unconventional Computations with Memristor-Based Oscillators. , 2021, , .		1
21	Memristive Oscillatory Networks for Computing: The Chemical Wave Propagation Paradigm. , 2021, , .		5
22	Emulating artificial mechanoreceptor functionalities from SiO ₂ -based memristor and PDMS stretchable sensor for artificial skin applications. , 2021, , .		0
23	Margolus Chemical Wave Logic Gate with Memristive Oscillatory Networks. , 2021, , .		3
24	A sensing approach for automated and real-time pesticide detection in the scope of smart-farming. Computers and Electronics in Agriculture, 2020, 178, 105759.	3.7	26
25	Investigating the origins of ultra-short relaxation times of silver filaments in forming-free SiO ₂ -based conductive bridge memristors. Nanotechnology, 2020, 31, 454002.	1.3	34
26	Nanoparticles Synthesised in the Gas-Phase and Their Applications in Sensors: A Review. Applied Nano, 2020, 1, 70-86.	0.9	6
27	Thin Film Protected Flexible Nanoparticle Strain Sensors: Experiments and Modeling. Sensors, 2020, 20, 2584.	2.1	11
28	Spatial Confinement Effects of Embedded Nanocrystals on Multibit and Synaptic Properties of Forming Free SiO ₂ -Based Conductive Bridge Random Access Memory. IEEE Electron Device Letters, 2020, 41, 1013-1016.	2.2	13
29	Enhancing the synaptic properties of low-power and forming-free HfOx/TaOy/HfOx resistive switching devices. Microelectronic Engineering, 2020, 229, 111358.	1.1	22
30	Impact of Pt embedded nanocrystals on the resistive switching and synaptic properties of forming free TiO2 – x/TiO2 – y-based bilayer structures. Journal of Applied Physics, 2019, 126, .	1.1	24
31	Tungsten doping effect on V2O5 thin film electrochromic performance. Electrochimica Acta, 2019, 321, 134743.	2.6	47
32	Ιmpedimetric nanoparticle aptasensor for selective and label free pesticide detection. Microelectronic Engineering, 2018, 189, 39-45.	1.1	47
33	Plasma induced degradation and surface electronic structure modification of Poly(3-hexylthiophene) films. Polymer Degradation and Stability, 2018, 149, 162-172.	2.7	7
34	Tuning Resistive, Capacitive, and Synaptic Properties of Forming Free TiO _{2â€x} â€Based RRAM Devices by Embedded Pt and Ta Nanocrystals. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700440.	0.8	12
35	A highly sensitive impedimetric aptasensor for the selective detection of acetamiprid and atrazine based on microwires formed by platinum nanoparticles. Biosensors and Bioelectronics, 2018, 101, 268-274.	5.3	115
36	Coalescence of Cluster Beam Generated Subâ€2 nm Bare Au Nanoparticles and Analysis of Au Film Growth Parameters. Annalen Der Physik, 2018, 530, 1700256.	0.9	2

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37	Nanoparticle based gas-sensing array for pesticide detection. Journal of Environmental Chemical Engineering, 2018, 6, 6641-6646.	3.3	13
38	Atomic layer deposited Al ₂ O ₃ thin films as humidity barrier coatings for nanoparticle-based strain sensors. Nanotechnology, 2018, 29, 465706.	1.3	11
39	Synthesis of hafnium nanoparticles and hafnium nanoparticle films by gas condensation and energetic deposition. Beilstein Journal of Nanotechnology, 2018, 9, 1868-1880.	1.5	6
40	Oxygen and temperature effects on the electrochemical and electrochromic properties of rf-sputtered V2O5 thin films. Electrochimica Acta, 2017, 232, 54-63.	2.6	40
41	Investigating the origins of high multilevel resistive switching in forming free Ti/TiO2â^'x-based memory devices through experiments and simulations. Journal of Applied Physics, 2017, 121, .	1.1	32
42	Resistive memory multilayer structure with self-rectifying and forming free properties along with their modification by adding a hafnium nanoparticle midlayer. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, .	0.9	3
43	Low-Power Forming Free TiO _{2–<italic>x</italic>} /HfO _{2–<italic>y</italic>} /TiO _{2â€ RRAM Devices Exhibiting Synaptic Property Characteristics. IEEE Transactions on Electron Devices, 2017, 64, 3151-3158.}	' <italic8 1.6</italic8 	ıgt;x
44	Coexistence of bipolar and threshold resistive switching in TiO ₂ based structure with embedded hafnium nanoparticles. Journal Physics D: Applied Physics, 2017, 50, 045103.	1.3	11
45	Tunable Properties of Mg-Doped V ₂ O ₅ Thin Films for Energy Applications: Li-Ion Batteries and Electrochromics. Journal of Physical Chemistry C, 2017, 121, 70-79.	1.5	82
46	Ultra‣ow Power Multilevel Switching with Enhanced Uniformity in Forming Free TiO _{2â ́′x} â€Based RRAM with Embedded Pt Nanocrystals. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1700570.	0.8	25
47	Experiments and simulation of multilevel resistive switching in forming free Ti/TiO <inf>2â^'x</inf> RRAM devices. , 2017, , .		2
48	Heavy metal ion detection using DNAzyme-modified platinum nanoparticle networks. Sensors and Actuators B: Chemical, 2017, 239, 962-969.	4.0	25
49	Low temperature rf-sputtered thermochromic VO2 films on flexible glass substrates. Advanced Materials Letters, 2017, 8, 757-761.	0.3	16
50	Nanoparticles-Based Flash-Like Nonvolatile Memories: Cluster Beam Synthesis of Metallic Nanoparticles and Challenges for the Overlying Control Oxide Layer. , 2017, , 157-210.		0
51	Understanding the Formation of Conducting Filaments in RRAM Through the Design of Experiments. , 2017, , .		0
52	Vectorial strain gauge method using single flexible orthogonal polydimethylsiloxane gratings. Scientific Reports, 2016, 6, 23606.	1.6	19
53	Understanding the Formation of Conducting Filaments in RRAM Through the Design of Experiments. International Journal of High Speed Electronics and Systems, 2016, 25, 1640007.	0.3	5
54	Engineering amorphous-crystalline interfaces in TiO2â^'x/TiO2â^'y-based bilayer structures for enhanced resistive switching and synaptic properties. Journal of Applied Physics, 2016, 120, .	1.1	38

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55	Thermochromic performance of Mg-doped VO2 thin films on functional substrates for glazing applications. Solar Energy Materials and Solar Cells, 2016, 157, 1004-1010.	3.0	60
56	Physical modelling of the SET/RESET characteristics and analog properties of TiO <inf>x</inf> /HfO <inf>2â^'x</inf> /TiO <inf>x</inf> -based RRAM devices. , 2016, , .		2
57	Low-Power and Highly Uniform 3-b Multilevel Switching in Forming Free TiO _{2–<italic>x</italic>} -Based RRAM With Embedded Pt Nanocrystals. IEEE Electron Device Letters, 2016, 37, 874-877.	2.2	59
58	Label-free DNA biosensor based on resistance change of platinum nanoparticles assemblies. Biosensors and Bioelectronics, 2016, 81, 388-394.	5.3	18
59	Facile synthesis of core–shell structured PANI-Co3O4 nanocomposites with superior electrochemical performance in supercapacitors. Applied Surface Science, 2016, 361, 57-62.	3.1	106
60	Highly Stretchable Electrodes on Wrinkled Polydimethylsiloxane Substrates. Scientific Reports, 2015, 5, 16527.	1.6	101
61	Millisecond non-melt laser annealing of phosphorus implanted germanium: Influence of nitrogen co-doping. Journal of Applied Physics, 2015, 118, .	1.1	22
62	Memory programming of TiO2â^'x films by Conductive Atomic Force Microscopy evidencing filamentary resistive switching. Applied Surface Science, 2015, 332, 55-61.	3.1	24
63	The effect of buffer layer on the thermochromic properties of undoped radio frequency sputtered VO2 thin films. Thin Solid Films, 2015, 594, 310-315.	0.8	24
64	Wrinkled Ag nanostructured gratings towards single molecule detection by ultrahigh surface Raman scattering enhancement. Sensors and Actuators B: Chemical, 2015, 218, 145-151.	4.0	34
65	Material and Device Parameters Influencing Multi-Level Resistive Switching of Room Temperature Grown Titanium Oxide Layers. Materials Research Society Symposia Proceedings, 2015, 1729, 59-64.	0.1	0
66	Improving the resistive switching uniformity of forming-free TiO <inf>2−x</inf> based devices by embedded Pt nanocrystals. , 2015, , .		5
67	Structural Characterization of Layers for Advanced Non-volatile Memories. Springer Proceedings in Physics, 2015, , 9-17.	0.1	Ο
68	\${m CO}_{2}\$ Laser Annealing for USJ Formation in Silicon: Comparison of Simulation and Experiment. IEEE Transactions on Electron Devices, 2014, 61, 696-701.	1.6	9
69	Influence of oxygen content of room temperature TiO _{2â[~]x} deposited films for enhanced resistive switching memory performance. Journal of Applied Physics, 2014, 115, 034516.	1.1	47
70	Novel conducting polymer current limiting devices for low cost surge protection applications. Journal of Applied Physics, 2014, 116, 164501.	1.1	5
71	ZnO nanoparticles embedded in polyethylene-glycol (PEG) matrix as sensitive strain gauge elements. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	5
72	Picosecond and nanosecond laser annealing and simulation of amorphous silicon thin films for solar cell applications. Journal of Applied Physics, 2014, 115, 043108.	1.1	17

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73	Influence of Ti top electrode thickness on the resistive switching properties of forming free and self-rectified TiO 2â^'x thin films. Thin Solid Films, 2014, 571, 23-31.	0.8	33
74	Cluster beam synthesis of metal and metal-oxide nanoparticles for emerging memories. Solid-State Electronics, 2014, 101, 95-105.	0.8	12
75	Flexible platinum nanoparticle strain sensors. , 2013, , .		2
76	Flexible polyimide chemical sensors using platinum nanoparticles. Sensors and Actuators B: Chemical, 2013, 189, 106-112.	4.0	29
77	Laser printing and characterization of semiconducting polymers for organic electronics. Applied Physics A: Materials Science and Processing, 2013, 110, 559-563.	1.1	20
78	Nickel nanoparticle size and density effects on non-volatile memory performance. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2013, 31, .	0.6	8
79	Investigation of the gate oxide leakage current of low temperature formed hafnium oxide films. Journal of Applied Physics, 2013, 113, .	1.1	13
80	Forming-free resistive switching memories based on titanium-oxide nanoparticles fabricated at room temperature. Applied Physics Letters, 2013, 102, 022909.	1.5	31
81	Inorganic Nanoparticles for either Charge Storage or Memristance Modulation. Advances in Science and Technology, 2012, 77, 196-204.	0.2	0
82	PHEMA functionalization of gold nanoparticles for vapor sensing: Chemi-resistance, chemi-capacitance and chemi-impedance. Sensors and Actuators B: Chemical, 2012, 170, 129-136.	4.0	24
83	Resistive switching memory using titanium-oxide nanoparticle films. , 2012, , .		0
84	High strain sensitivity controlled by the surface density of platinum nanoparticles. Nanotechnology, 2012, 23, 285501.	1.3	55
85	Chemical sensing based on double layer PHEMA polymer and platinum nanoparticle films. Sensors and Actuators B: Chemical, 2012, 175, 85-91.	4.0	12
86	Platinum Nanoparticle Chemical Sensors on Polyimide Substrates. Procedia Engineering, 2012, 47, 778-781.	1.2	1
87	Surface functionalization studies and direct laser printing of oligonucleotides toward the fabrication of a micromembrane DNA capacitive biosensor. Sensors and Actuators B: Chemical, 2012, 175, 123-131.	4.0	25
88	Modeling of charge-trapping non-volatile-memories based on HfO2. Microelectronic Engineering, 2012, 90, 23-25.	1.1	9
89	Evaluation of capacitive surface stress biosensors. Microelectronic Engineering, 2012, 90, 37-39.	1.1	6
90	Electrostatic self-assembly of nanoparticles into ordered nanowire arrays. Journal of Materials Research, 2011, 26, 209-214.	1.2	4

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#	Article	IF	CITATIONS
91	Two-dimensional nanoparticle self-assembly using plasma-induced Ostwald ripening. Nanotechnology, 2011, 22, 235306.	1.3	18
92	Size control of Ag nanoparticles for SERS sensing applications. Procedia Engineering, 2011, 25, 280-283.	1.2	7
93	Nanoparticle Strain Sensor. Procedia Engineering, 2011, 25, 635-638.	1.2	17
94	Chemi-resistive sensors based on platinum nanoparticle arrays. Procedia Engineering, 2011, 25, 1129-1132.	1.2	1
95	Raman enhancement of rhodamine adsorbed on Ag nanoparticles self-assembled into nanowire-like arrays. Nanoscale Research Letters, 2011, 6, 629.	3.1	16
96	ZnO nanoparticles produced by novel reactive physical deposition process. Applied Surface Science, 2011, 257, 5366-5369.	3.1	11
97	Optimization of hafnium oxide for use in nanoparticle memories. Microelectronic Engineering, 2011, 88, 1189-1193.	1.1	15
98	Chemiresistive sensor fabricated by the sequential ink-jet printing deposition of a gold nanoparticle and polymer layer. Microelectronic Engineering, 2010, 87, 2258-2263.	1.1	20
99	Non-melting annealing of silicon by CO2 laser. Thin Solid Films, 2010, 518, 2551-2554.	0.8	6
100	Trapping properties of sputtered hafnium oxide films: Bulk traps vs. interface traps. Thin Solid Films, 2010, 518, 5579-5584.	0.8	11
101	A chemical sensor microarray realized by laser printing of polymers. Sensors and Actuators B: Chemical, 2010, 150, 148-153.	4.0	26
102	Formation of silicon ultra shallow junction by non-melt excimer laser treatment. Solid-State Electronics, 2010, 54, 903-908.	0.8	5
103	Detection of DNA mutations using a capacitive micro-membrane array. Biosensors and Bioelectronics, 2010, 26, 1588-1592.	5.3	19
104	Sensitivity investigations of surface stress capacitive DNA sensor. , 2010, , .		0
105	Experiments and simulation on diffusion and activation of codoped with arsenic and phosphorous germanium. Journal of Applied Physics, 2010, 108, 024903.	1.1	25
106	Modeling and experiments on diffusion and activation of phosphorus in germanium. Journal of Applied Physics, 2009, 105, 094910.	1.1	41
107	Metallic nanoparticles for application in electronic non-volatile memories. International Journal of Nanotechnology, 2009, 6, 35.	0.1	11
108	Detection of the biotin–streptavidin interaction by exploiting surface stress changes on ultrathin Si membranes. Microelectronic Engineering, 2009, 86, 1495-1498.	1.1	16

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109	Selective deposition of charged nanoparticles by self-electric focusing effect. Microelectronic Engineering, 2009, 86, 898-901.	1.1	4
110	Fabrication of gold nanoparticle lines based on fracture induced patterning. Microelectronic Engineering, 2009, 86, 861-864.	1.1	4
111	Assembly of charged nanoparticles using self-electrodynamic focusing. Nanotechnology, 2009, 20, 365605.	1.3	19
112	From silicon to organic nanoparticle memory devices. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 4169-4179.	1.6	23
113	Investigation of top gate electrode options for highâ€k gate dielectric MOS capacitors. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 3626-3629.	0.8	0
114	Deposition and electrical characterization of hafnium oxide films on silicon. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 3720-3723.	0.8	8
115	Design and fabrication of a Si micromechanical capacitive array for DNA sensing. Microelectronic Engineering, 2008, 85, 1359-1361.	1.1	11
116	Non-melt laser annealing of Plasma Implanted Boron for ultra shallow junctions in Silicon. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 154-155, 39-42.	1.7	17
117	Diffusion and activation of phosphorus in germanium. Materials Science in Semiconductor Processing, 2008, 11, 372-377.	1.9	14
118	High-density plasma silicon oxide thin films grown at room-temperature. Microelectronic Engineering, 2008, 85, 1245-1247.	1.1	2
119	Electrical behavior of memory devices based on fluorene-containing organic thin films. Journal of Applied Physics, 2008, 104, 044510.	1.1	30
120	Development of Wireless Pressure Measurement System for Short Range medical Applications. , 2007, ,		2
121	Deposition Of Uniform Size Metallic Nanoparticles For Use In Non Volatile Memories. Materials Research Society Symposia Proceedings, 2007, 997, 1.	0.1	1
122	Electronic memory device based on a single-layer fluorene-containing organic thin film. Applied Physics Letters, 2007, 91, 123506.	1.5	40
123	Proton Radiation Effects on Nanocrystal Non-Volatile Memories. IEEE Transactions on Nuclear Science, 2007, 54, 975-981.	1.2	5
124	Nickel nanoparticle deposition at room temperature for memory applications. Microelectronic Engineering, 2007, 84, 1994-1997.	1.1	33
125	Proton radiation tolerance of nanocrystal memories. Physica E: Low-Dimensional Systems and Nanostructures, 2007, 38, 67-70.	1.3	4
126	Impact of structural parameters on the performance of silicon micromachined capacitive pressure sensors. Sensors and Actuators A: Physical, 2007, 137, 20-24.	2.0	3

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127	Laser annealing for n+/p junction formation in germanium. Materials Science in Semiconductor Processing, 2006, 9, 644-649.	1.9	30
128	Laser annealing of plasma implanted boron for ultra-shallow junctions in Silicon. Nuclear Instruments & Methods in Physics Research B, 2006, 253, 13-17.	0.6	5
129	Capacitive pressure sensors and switches fabricated using strain compensated SiGeB. Microelectronic Engineering, 2006, 83, 1209-1211.	1.1	7
130	Metal nano-floating gate memory devices fabricated at low temperature. Microelectronic Engineering, 2006, 83, 1563-1566.	1.1	26
131	Materials Science Issues for the Fabrication of Nanocrystal Memory Devices by Ultra Low Energy Ion Implantation. Defect and Diffusion Forum, 2006, 258-260, 531-541.	0.4	8
132	Combination of integrated thermal flow and capacitive pressure sensors for high sensitivity flow measurements in both laminar and turbulent regions. Journal of Physics: Conference Series, 2005, 10, 277-280.	0.3	0
133	A Si/SiGe MOSFET utilizing low-temperature wafer bonding. Microelectronic Engineering, 2005, 78-79, 244-247.	1.1	1
134	Recent advances in nanoparticle memories. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 124-125, 93-101.	1.7	57
135	Interstitial injection during oxidation of very low energy nitrogen-implanted silicon. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 124-125, 314-318.	1.7	1
136	Injection of point defects during annealing of low energy As implanted silicon. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 124-125, 261-265.	1.7	1
137	Size and aerial density distributions of Ge nanocrystals in a SiO2 layer produced by molecular beam epitaxy and rapid thermal processing. Applied Physics A: Materials Science and Processing, 2005, 81, 363-366.	1.1	8
138	Field effect devices with metal nanoparticles integrated by Langmuir–Blodgett technique for non-volatile memory applications. Journal of Physics: Conference Series, 2005, 10, 57-60.	0.3	5
139	Oxidation of nitrogen-implanted silicon: Comparison of nitrogen distribution and electrical properties of oxides formed by very low and medium energy N2+ implantation. Journal of Applied Physics, 2004, 96, 300-309.	1.1	8
140	Gold Langmuir-Blodgett deposited nanoparticles for non-volatile memories. Materials Research Society Symposia Proceedings, 2004, 830, 317.	0.1	1
141	Ge nanocrystals in MOS-memory structures produced by molecular-beam epitaxy and rapid-thermal processing. Materials Research Society Symposia Proceedings, 2004, 830, 288.	0.1	0
142	Nitrogen distribution during oxidation of low and medium energy nitrogen-implanted silicon. Nuclear Instruments & Methods in Physics Research B, 2004, 216, 75-79.	0.6	0
143	Nanocrystals manufacturing by ultra-low-energy ion-beam-synthesis for non-volatile memory applications. Nuclear Instruments & Methods in Physics Research B, 2004, 216, 228-238.	0.6	45
144	Silicon nanocrystal memory devices obtained by ultra-low-energy ion-beam synthesis. Solid-State Electronics, 2004, 48, 1511-1517.	0.8	65

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145	Low temperature wafer bonding for thin silicon film transfer. Sensors and Actuators A: Physical, 2004, 110, 401-406.	2.0	16
146	Capacitive-type chemical sensors using thin silicon/polymer bimorph membranes. Sensors and Actuators B: Chemical, 2004, 103, 392-396.	4.0	25
147	Fabrication of chemical sensors based on Si/polymer bimorphs. Microelectronic Engineering, 2004, 73-74, 847-851.	1.1	6
148	Effects of annealing conditions on charge storage of Si nanocrystal memory devices obtained by low-energy ion beam synthesis. Microelectronic Engineering, 2003, 67-68, 629-634.	1.1	11
149	MOS memory structures by very-low-energy-implanted Si in thin SiO2. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 101, 14-18.	1.7	38
150	Effect of ion energy and dose on the positioning of 2D-arrays of Si nanocrystals ion beam synthesised in thin SiO2 layers. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 101, 204-207.	1.7	27
151	Effect of ion energy and dose on the positioning of 2D-arrays of Si nanocrystals ion beam synthesized in thin SiO2 layers. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 513-515.	1.3	11
152	Structural and electrical properties of silicon dioxide layers with embedded germanium nanocrystals grown by molecular beam epitaxy. Applied Physics Letters, 2003, 82, 1212-1214.	1.5	110
153	Langmuirâ^'Blodgett Film Deposition of Metallic Nanoparticles and Their Application to Electronic Memory Structures. Nano Letters, 2003, 3, 533-536.	4.5	279
154	Influence of implantation energy on the electrical properties of ultrathin gate oxides grown on nitrogen implanted Si substrates. Applied Physics Letters, 2003, 82, 4764-4766.	1.5	5
155	Transmission electron microscopy measurements of the injection distances in nanocrystal-based memories. Applied Physics Letters, 2003, 82, 200-202.	1.5	54
156	Silicon self-diffusivity measurement in thermal SiO2 by 30Si/28Si isotopic exchange. Journal of Applied Physics, 2003, 94, 2136-2138.	1.1	34
157	Hybrid silicon–organic nanoparticle memory device. Journal of Applied Physics, 2003, 94, 5234.	1.1	96
158	Oxidation of nitrogen-implanted silicon: Energy dependence of oxide growth and defect characterization of the silicon substrate. Journal of Applied Physics, 2003, 93, 1832-1838.	1.1	10
159	Effect of annealing environment on the memory properties of thin oxides with embedded Si nanocrystals obtained by low-energy ion-beam synthesis. Applied Physics Letters, 2003, 83, 168-170.	1.5	100
160	Room-temperature single-electron charging phenomena in large-area nanocrystal memory obtained by low-energy ion beam synthesis. Applied Physics Letters, 2002, 80, 2794-2796.	1.5	69
161	Influence of Ge implantation on the mechanical properties of polycrystalline silicon microstructures. Journal of Micromechanics and Microengineering, 2002, 12, 450-457.	1.5	4
162	Annealing Behavior of Locally Confined Dislocation Loops Under Inert And Oxidizing Ambient. Materials Research Society Symposia Proceedings, 2002, 717, 1.	0.1	0

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163	Fabrication of single crystal Si cantilevers using a dry release process and application in a capacitive-type humidity sensor. Microelectronic Engineering, 2002, 61-62, 955-961.	1.1	45
164	Evolution and control of the structure of a SiO2/semiconductor nanoelectronics material. Microelectronic Engineering, 2002, 61-62, 631-635.	1.1	6
165	Influence of implantation dose on the charge storage characteristics of MOS memory devices with low energy Si implanted gate oxides. Microelectronic Engineering, 2002, 61-62, 505-510.	1.1	2
166	A new masking method for protecting silicon surfaces during anisotropic silicon wet etching. Microelectronic Engineering, 2002, 61-62, 895-900.	1.1	7
167	Diffusivity measurements of silicon in silicon dioxide layers using isotopically pure material. Journal of Applied Physics, 2001, 89, 7809-7813.	1.1	73
168	MOS memory devices based on silicon nanocrystal arrays fabricated by very low energy ion implantation. Materials Science and Engineering C, 2001, 15, 145-147.	3.8	13
169	Capacitance to Frequency Converter Suitable for Sensor Applications Using Telemetry. Analog Integrated Circuits and Signal Processing, 2001, 27, 31-38.	0.9	13
170	Silicon-nanocrystal-based multiple-tunnel junction devices obtained by a combination of V-groove and ion beam synthesis techniques. Microelectronic Engineering, 2001, 57-58, 1003-1007.	1.1	1
171	Investigation of the influence of a dislocation loop layer on interstitial kinetics during surface oxidation of silicon. Nuclear Instruments & Methods in Physics Research B, 2001, 178, 180-183.	0.6	2
172	Formation of 2-D arrays of semiconductor nanocrystals or semiconductor-rich nanolayers by very low-energy Si or Ge ion implantation in silicon oxide films. Nuclear Instruments & Methods in Physics Research B, 2001, 178, 74-77.	0.6	28
173	Influence of the annealing ambient on the relative thermal stability of dislocation loops in silicon. Nuclear Instruments & Methods in Physics Research B, 2001, 178, 84-88.	0.6	7
174	A Masking Approach for Anisotropic Silicon Wet Etching. Electrochemical and Solid-State Letters, 2001, 4, G73.	2.2	1
175	Use of isotopically pure silicon material to estimate silicon diffusivity in silicon dioxide. Materials Research Society Symposia Proceedings, 2001, 669, 1.	0.1	6
176	Point defect injection during nitrous oxidation of silicon at low temperatures. Journal of Applied Physics, 2000, 87, 1103-1109.	1.1	12
177	Charge storage and interface states effects in Si-nanocrystal memory obtained using low-energy Si+ implantation and annealing. Applied Physics Letters, 2000, 77, 3450-3452.	1.5	130
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