List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Growth of Large-Area and Highly Crystalline MoS <sub>2</sub> Thin Layers on Insulating Substrates. Nano Letters, 2012, 12, 1538-1544.	4.5	1,749
2	Fluorinated Graphene as High Performance Dielectric Materials and the Applications for Graphene Nanoelectronics. Scientific Reports, 2014, 4, 5893.	1.6	147
3	Bidirectional Allâ€Optical Synapses Based on a 2D Bi <sub>2</sub> O <sub>2</sub> Se/Graphene Hybrid Structure for Multifunctional Optoelectronics. Advanced Functional Materials, 2020, 30, 2001598.	7.8	123
4	Highly sensitive palladium oxide thin film extended gate FETs as pH sensor. Sensors and Actuators B: Chemical, 2014, 205, 199-205.	4.0	122
5	Oriented Schwann cell growth on microgrooved surfaces. Biotechnology and Bioengineering, 2005, 92, 579-588.	1.7	80
6	pH Sensitivity Improvement on 8 nm Thick Hafnium Oxide by Post Deposition Annealing. Electrochemical and Solid-State Letters, 2006, 9, G90.	2.2	78
7	Programmable Synaptic Metaplasticity and below Femtojoule Spiking Energy Realized in Graphene-Based Neuromorphic Memristor. ACS Applied Materials & Interfaces, 2018, 10, 20237-20243.	4.0	71
8	Suppression of surface defects to achieve hysteresis-free inverted perovskite solar cells <i>via</i> quantum dot passivation. Journal of Materials Chemistry A, 2020, 8, 5263-5274.	5.2	67
9	Integrating solid-state sensor and microfluidic devices for glucose, urea and creatinine detection based on enzyme-carrying alginate microbeads. Biosensors and Bioelectronics, 2013, 43, 328-335.	5.3	59
10	One‣tep Formation of a Single Atomic‣ayer Transistor by the Selective Fluorination of a Graphene Film. Small, 2014, 10, 989-997.	5.2	59
11	Study of high-k Er2O3 thin layers as ISFET sensitive insulator surface for pH detection. Sensors and Actuators B: Chemical, 2009, 138, 619-624.	4.0	58
12	An integrated microfluidic cell culture system for high-throughput perfusion three-dimensional cell culture-based assays: effect of cell culture model on the results of chemosensitivity assays. Lab on A Chip, 2013, 13, 1133.	3.1	55
13	Structural properties and sensing performance of high-k Sm2O3 membrane-based electrolyte–insulator–semiconductor for pH and urea detection. Sensors and Actuators B: Chemical, 2009, 138, 221-227.	4.0	54
14	pH sensing reliability of flexible ITO/PET electrodes on EGFETs prepared by a roll-to-roll process. Microelectronics Reliability, 2012, 52, 1651-1654.	0.9	54
15	Facile synthesis of carbon/MoO 3 nanocomposites as stable battery anodes. Journal of Power Sources, 2017, 348, 270-280.	4.0	54
16	Discrimination of Breast Cancer by Measuring Prostate-Specific Antigen Levels in Women's Serum. Analytical Chemistry, 2011, 83, 5324-5328.	3.2	51
17	Spin-coated Au-nanohole arrays engineered by nanosphere lithography for a Staphylococcus aureus 16S rRNA electrochemical sensor. Biosensors and Bioelectronics, 2016, 77, 1086-1094.	5.3	49
18	Bifacial Perovskite Solar Cells Featuring Semitransparent Electrodes. ACS Applied Materials & Interfaces, 2017, 9, 32635-32642.	4.0	49

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19	Formation polarity dependent improved resistive switching memory characteristics using nanoscale (1.3 nm) core-shell IrOx nano-dots. Nanoscale Research Letters, 2012, 7, 194.	3.1	48
20	Layered perovskite materials: key solutions for highly efficient and stable perovskite solar cells. Reports on Progress in Physics, 2020, 83, 086502.	8.1	48
21	A Selfâ€Aligned Highâ€Mobility Graphene Transistor: Decoupling the Channel with Fluorographene to Reduce Scattering. Advanced Materials, 2015, 27, 6519-6525.	11.1	47
22	The Electrical and pH-Sensitive Characteristics of Thermal Gd[sub 2]O[sub 3]â^•SiO[sub 2]-Stacked Oxide Capacitors. Journal of the Electrochemical Society, 2006, 153, G330.	1.3	42
23	Development of high throughput microfluidic cell culture chip for perfusion 3-dimensional cell culture-based chemosensitivity assay. Sensors and Actuators B: Chemical, 2011, 155, 397-407.	4.0	39
24	Drift and Hysteresis Effects Improved by RTA Treatment on Hafnium Oxide in pH-Sensitive Applications. Journal of the Electrochemical Society, 2008, 155, J326.	1.3	38
25	Multi-analyte biosensors on a CF4 plasma treated Nb2O5-based membrane with an extended gate field effect transistor structure. Sensors and Actuators B: Chemical, 2014, 194, 419-426.	4.0	38
26	Solution-processable electron transport layer for efficient hybrid perovskite solar cells beyond fullerenes. Solar Energy Materials and Solar Cells, 2017, 169, 78-85.	3.0	38
27	Ultraviolet illumination effect on monolayer graphene-based resistive sensor for acetone detection. Vacuum, 2017, 140, 89-95.	1.6	38
28	Breath Ammonia Is a Useful Biomarker Predicting Kidney Function in Chronic Kidney Disease Patients. Biomedicines, 2020, 8, 468.	1.4	38
29	N-Doped Graphene with Low Intrinsic Defect Densities via a Solid Source Doping Technique. Nanomaterials, 2017, 7, 302.	1.9	37
30	GaN Thin Film Based Light Addressable Potentiometric Sensor for pH Sensing Application. Applied Physics Express, 2013, 6, 036601.	1.1	36
31	Enhanced acetone sensing properties of monolayer graphene at room temperature by electrode spacing effect and UV illumination. Sensors and Actuators B: Chemical, 2017, 253, 77-84.	4.0	36
32	Nanoparticle-Based LDI-MS Immunoassay for the Multiple Diagnosis of Viral Infections. ACS Sensors, 2019, 4, 1543-1551.	4.0	36
33	Characteristics of Gadolinium Oxide Nanocrystal Memory with Optimized Rapid Thermal Annealing. Electrochemical and Solid-State Letters, 2009, 12, H202.	2.2	34
34	Optimization of Urea-EnFET Based on Ta2O5 Layer with Post Annealing. Sensors, 2011, 11, 4562-4571.	2.1	34
35	Bipolar resistive switching memory using bilayer TaOx/WOx films. Solid-State Electronics, 2012, 77, 35-40.	0.8	34
36	Total ionizing dose (TID) effects of γ ray radiation on switching behaviors of Ag/AlO x /Pt RRAM device. Nanoscale Research Letters, 2014, 9, 452.	3.1	34

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37	Ultra-low-edge-defect graphene nanoribbons patterned by neutral beam. Carbon, 2013, 61, 229-235.	5.4	33
38	A negative-pressure-driven microfluidic chip for the rapid detection of a bladder cancer biomarker in urine using bead-based enzyme-linked immunosorbent assay. Biomicrofluidics, 2013, 7, 24103.	1.2	33
39	Au-spotted zinc oxide nano-hexagonrods structure for plasmon-photoluminescence sensor. Sensors and Actuators B: Chemical, 2019, 290, 100-109.	4.0	32
40	Modulating Performance and Stability of Inorganic Lead-Free Perovskite Solar Cells via Lewis-Pair Mediation. ACS Applied Materials & Interfaces, 2020, 12, 32649-32657.	4.0	32
41	Suppression of interfacial reaction for HfO2 on silicon by pre-CF4 plasma treatment. Applied Physics Letters, 2006, 89, 072904.	1.5	31
42	Top Illuminated Hysteresis-Free Perovskite Solar Cells Incorporating Microcavity Structures on Metal Electrodes: A Combined Experimental and Theoretical Approach. ACS Applied Materials & Interfaces, 2018, 10, 17973-17984.	4.0	31
43	Characterization of CF4-plasma fluorinated HfO2 gate dielectrics with TaN metal gate. Applied Physics Letters, 2005, 86, 222905.	1.5	30
44	Body effect minimization using single layer structure for pH-ISFET applications. Sensors and Actuators B: Chemical, 2010, 143, 494-499.	4.0	30
45	A Fluorographeneâ€Based Synaptic Transistor. Advanced Materials Technologies, 2019, 4, 1900422.	3.0	30
46	Enhanced nanoscale resistive switching memory characteristics and switching mechanism using high-Ge-content Ge0.5Se0.5 solid electrolyte. Nanoscale Research Letters, 2012, 7, 614.	3.1	29
47	Atmospheric pressure route to epitaxial nitrogen-doped trilayer graphene on 4H-SiC (0001) substrate. Applied Physics Letters, 2014, 105, .	1.5	29
48	Carrier Transportation Mechanism of the \$hbox{TaN}/ hbox{HfO}_{2}/hbox{IL}/hbox{Si}\$ Structure With Silicon Surface Fluorine Implantation. IEEE Transactions on Electron Devices, 2008, 55, 1639-1646.	1.6	28
49	Structural properties and sensing performance of high-k Nd2TiO5 thin layer-based electrolyte–insulator–semiconductor for pH detection and urea biosensing. Biosensors and Bioelectronics, 2009, 24, 2864-2870.	5.3	28
50	Low cost and flexible electrodes with NH3 plasma treatments in extended gate field effect transistors for urea detection. Sensors and Actuators B: Chemical, 2013, 187, 274-279.	4.0	28
51	Ultra-low-damage radical treatment for the highly controllable oxidation of large-scale graphene sheets. Carbon, 2014, 73, 244-251.	5.4	28
52	The characteristics of polysilicon oxide grown in pure N/sub 2/O. IEEE Transactions on Electron Devices, 1996, 43, 326-331.	1.6	27
53	Thickness Effects on pH Response of HfO2Sensing Dielectric Improved by Rapid Thermal Annealing. Japanese Journal of Applied Physics, 2006, 45, 3807-3810.	0.8	27
54	High-Performance HfO[sub 2] Gate Dielectrics Fluorinated by Postdeposition CF[sub 4] Plasma Treatment. Journal of the Electrochemical Society, 2007, 154, H561.	1.3	27

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55	A high-speed, flexible-scanning chemical imaging system using a light-addressable potentiometric sensor integrated with an analog micromirror. Sensors and Actuators B: Chemical, 2014, 198, 225-232.	4.0	27
56	Speckled ZnO Nanograss Electrochemical Sensor for <i>Staphylococcus epidermidis</i> Detection. Journal of the Electrochemical Society, 2017, 164, B205-B211.	1.3	27
57	Activity Monitoring with a Wrist-Worn, Accelerometer-Based Device. Micromachines, 2018, 9, 450.	1.4	26
58	Si–H Bond Breaking Induced Retention Degradation During Packaging Process of 256 Mbit DRAMs With Negative Wordline Bias. IEEE Transactions on Electron Devices, 2005, 52, 484-491.	1.6	25
59	Nanostructure band engineering of gadolinium oxide nanocrystal memory by CF4 plasma treatment. Applied Physics Letters, 2010, 97, 023513.	1.5	25
60	Miniaturized amorphous-silicon based chemical imaging sensor system using a mini-projector as a simplified light-addressable scanning source. Sensors and Actuators B: Chemical, 2014, 190, 664-672.	4.0	25
61	The utility of a high-throughput scanning biosensor in the detection of the pancreatic cancer marker ULBP2. Biosensors and Bioelectronics, 2013, 41, 232-237.	5.3	24
62	LAPS with nanoscaled and highly polarized HfO2 by CF4 plasma for NH4+ detection. Sensors and Actuators B: Chemical, 2013, 180, 71-76.	4.0	24
63	Impact of electrically formed interfacial layer and improved memory characteristics of IrOx/high-κx/W structures containing AlOx, GdOx, HfOx, and TaOx switching materials. Nanoscale Research Letters, 2013, 8, 379.	3.1	23
64	Suppression of Row Hammer Effect by Doping Profile Modification in Saddle-Fin Array Devices for Sub-30-nm DRAM Technology. IEEE Transactions on Device and Materials Reliability, 2016, 16, 685-687.	1.5	23
65	Growth Mechanism for Low Temperature PVD Graphene Synthesis on Copper Using Amorphous Carbon. Scientific Reports, 2017, 7, 44112.	1.6	23
66	Integration of ammonia-plasma-functionalized graphene nanodiscs as charge trapping centers for nonvolatile memory applications. Carbon, 2017, 113, 318-324.	5.4	22
67	Characterization of gadolinium oxide thin films with CF4 plasma treatment for resistive switching memory applications. Applied Surface Science, 2013, 276, 497-501.	3.1	21
68	Device Size-Dependent Improved Resistive Switching Memory Performance. IEEE Nanotechnology Magazine, 2014, 13, 409-417.	1.1	21
69	The TEOS oxide deposited on phosphorus in-situ/POCl/sub 3/ doped polysilicon with rapid thermal annealing in N/sub 2/O. IEEE Transactions on Electron Devices, 1998, 45, 1927-1933.	1.6	20
70	Non-ideal effects improvement of SF6 plasma treated hafnium oxide film based on electrolyte–insulator–semiconductor structure for pH-sensor application. Microelectronics Reliability. 2010. 50. 742-746.	0.9	20
71	IGZO Thin-Film Light-Addressable Potentiometric Sensor. IEEE Electron Device Letters, 2016, 37, 1481-1484.	2.2	20
72	A Colloidal Nanopatterning and Downscaling of a Highly Periodic Au Nanoporous EGFET Biosensor. Journal of the Electrochemical Society, 2018, 165, H3170-H3177.	1.3	20

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73	Characterization of K+ and Na+-Sensitive Membrane Fabricated by CF4 Plasma Treatment on Hafnium Oxide Thin Films on ISFET. Journal of the Electrochemical Society, 2011, 158, J91.	1.3	19
74	Enhanced resistive switching memory characteristics and mechanism using a Ti nanolayer at the W/TaO x interface. Nanoscale Research Letters, 2014, 9, 125.	3.1	19
75	Tunable Plasmonic SERS "Hotspots―on Au-Film Over Nanosphere by Rapid Thermal Annealing. IEEE Nanotechnology Magazine, 2017, 16, 551-559.	1.1	19
76	Plasmonic nanomaterial structuring for SERS enhancement. RSC Advances, 2019, 9, 4982-4992.	1.7	19
77	Facile Bacterial Cellulose Nanofibrillation for the Development of a Plasmonic Paper Sensor. ACS Biomaterials Science and Engineering, 2020, 6, 3122-3131.	2.6	19
78	The electrical characteristics of polysilicon oxide grown in pure N/sub 2/O. IEEE Electron Device Letters, 1995, 16, 385-386.	2.2	18
79	Fluorine effects on the dipole structures of the Al2O3 thin films and characterization by spectroscopic ellipsometry. Applied Physics Letters, 2007, 90, 172904.	1.5	18
80	New pH-sensitive TaOxNy membranes prepared by NH3 plasma surface treatment and nitrogen incorporated reactive sputtering. Sensors and Actuators B: Chemical, 2008, 130, 77-81.	4.0	18
81	The Investigation of the High-k Gd[sub 2]O[sub 3] (Gadolinium Oxide) Interdielectrics Deposited on the Polycrystalline Silicon. Journal of the Electrochemical Society, 2010, 157, H915.	1.3	18
82	A novel polybenzimidazole-modified gold electrode for the analytical determination of hydrogen peroxide. Talanta, 2011, 85, 631-637.	2.9	18
83	Immobilization of enzyme and antibody on ALD-HfO2-EIS structure by NH3 plasma treatment. Nanoscale Research Letters, 2012, 7, 179.	3.1	18
84	High-Performance Multilevel Resistive Switching Gadolinium Oxide Memristors With Hydrogen Plasma Immersion Ion Implantation Treatment. IEEE Electron Device Letters, 2014, 35, 452-454.	2.2	18
85	Magnetic-Composite-Modified Polycrystalline Silicon Nanowire Field-Effect Transistor for Vascular Endothelial Growth Factor Detection and Cancer Diagnosis. Analytical Chemistry, 2014, 86, 9443-9450.	3.2	18
86	UV- and NIR-Protective Semitransparent Smart Windows Based on Metal Halide Solar Cells. ACS Applied Energy Materials, 2018, 1, 632-637.	2.5	18
87	Surface plasmon resonance amplified efficient polarization-selective volatile organic compounds CdSe-CdS/Ag/PMMA sensing material. Sensors and Actuators B: Chemical, 2020, 309, 127760.	4.0	18
88	Bi <sub>2</sub> O <sub>2</sub> Se-Based True Random Number Generator for Security Applications. ACS Nano, 2022, 16, 6847-6857.	7.3	18
89	Improvement of polysilicon oxide by growing on polished polysilicon film. IEEE Electron Device Letters, 1997, 18, 270-271.	2.2	17
90	Effects of Post CF4Plasma Treatment on the HfO2Thin Film. Japanese Journal of Applied Physics, 2005, 44, 2307-2310.	0.8	17

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91	P-I-N amorphous silicon for thin-film light-addressable potentiometric sensors. Sensors and Actuators B: Chemical, 2016, 236, 1005-1010.	4.0	17
92	Surface Acoustic Wave Sensor for C-Reactive Protein Detection. Sensors, 2020, 20, 6640.	2.1	17
93	Characterization of polysilicon oxides thermally grown and deposited on the polished polysilicon films. IEEE Transactions on Electron Devices, 1998, 45, 912-917.	1.6	16
94	Positive Bias Temperature Instability (PBTI) Characteristics of Contact-Etch-Stop-Layer-Induced Local-Tensile-Strained \$hbox{HfO}_{2}\$ nMOSFET. IEEE Electron Device Letters, 2008, 29, 1340-1343.	2.2	16
95	Hysteresis effect on traps of Si3N4 sensing membranes for pH difference sensitivity. Microelectronics Reliability, 2010, 50, 738-741.	0.9	16
96	Gadolinium-based metal oxide for nonvolatile memory applications. Microelectronics Reliability, 2012, 52, 635-641.	0.9	16
97	ZnO-Nanorod processed PC-SET as the light-harvesting model for plasmontronic fluorescence Sensor. Sensors and Actuators B: Chemical, 2020, 307, 127597.	4.0	16
98	Bi <sub>2</sub> O <sub>2</sub> Se-Based Memristor-Aided Logic. ACS Applied Materials & Interfaces, 2021, 13, 15391-15398.	4.0	16
99	Impact of STI on the Reliability of Narrow-Width pMOSFETs With Advanced ALD N/O Gate Stack. IEEE Transactions on Device and Materials Reliability, 2006, 6, 95-101.	1.5	15
100	Work Function Adjustment by Nitrogen Incorporation in HfN[sub x] Gate Electrode with Post Metal Annealing. Electrochemical and Solid-State Letters, 2006, 9, G239.	2.2	15
101	Oxide Grown on Polycrystal Silicon by Rapid Thermal Oxidation in N[sub 2]O. Journal of the Electrochemical Society, 2006, 153, G128.	1.3	15
102	Ti-doped Gd2O3 sensing membrane for electrolyte–insulator–semiconductor pH sensor. Thin Solid Films, 2012, 520, 3760-3763.	0.8	15
103	Analog micromirror-LAPS for chemical imaging and zoom-in application. Vacuum, 2015, 118, 161-166.	1.6	15
104	Hybrid aluminum and indium conducting filaments for nonpolar resistive switching of Al/AlO <i><sub>x</sub></i> /indium tin oxide flexible device. Applied Physics Express, 2014, 7, 024204.	1.1	14
105	Copper induced synthesis of graphene using amorphous carbon. Microelectronics Reliability, 2016, 61, 87-90.	0.9	14
106	Improvements on thermal stability of graphene and top gate graphene transistors by Ar annealing. Vacuum, 2017, 137, 8-13.	1.6	14
107	Achieving Highâ€Performance Perovskite Photovoltaic by Morphology Engineering of Lowâ€Temperature Processed Znâ€Doped TiO 2 Electron Transport Layer. Small, 2020, 16, 2002201.	5.2	13
108	Flexible Layered-Graphene Charge Modulation for Highly Stable Triboelectric Nanogenerator. Nanomaterials, 2021, 11, 2276.	1.9	13

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109	Few-layer fluorine-functionalized graphene hole-selective contacts for efficient inverted perovskite solar cells. Chemical Engineering Journal, 2022, 430, 132831.	6.6	13
110	The TEOS CVD oxide deposited on phosphorus in situ doped polysilicon with rapid thermal annealing. IEEE Electron Device Letters, 1997, 18, 526-528.	2.2	12
111	pH-Sensitive Gd[sub 2]O[sub 3]â^•SiO[sub 2] Stacked Capacitors Prepared By Pure Water Anodic Oxidation. Journal of the Electrochemical Society, 2007, 154, J150.	1.3	12
112	Highly Reliable Multilevel and 2-bit/cell Operation of Wrapped Select Gate (WSG) SONOS Memory. IEEE Electron Device Letters, 2007, 28, 214-216.	2.2	12
113	Rapid detection of urinary polyomavirus BK by heterodyne-based surface plasmon resonance biosensor. Journal of Biomedical Optics, 2013, 19, 011013.	1.4	12
114	Enhancement of the Au/ZnO-NA Plasmonic SERS Signal Using Principal Component Analysis as a Machine Learning Approach. IEEE Photonics Journal, 2020, 12, 1-11.	1.0	12
115	Enhanced Plasmonic Biosensor Utilizing Paired Antibody and Label-Free Fe3O4 Nanoparticles for Highly Sensitive and Selective Detection of Parkinson's α-Synuclein in Serum. Biosensors, 2021, 11, 402.	2.3	12
116	Hydrogen ion sensing characteristics of IGZO/Si electrode in EGFET. International Journal of Nanotechnology, 2014, 11, 15.	0.1	11
117	Fabrication of multianalyte CeO 2 nanograin electrolyte–insulator–semiconductor biosensors by using CF 4 plasma treatment. Sensing and Bio-Sensing Research, 2015, 5, 71-77.	2.2	11
118	Sensing performance of fibronectin-functionalized Au-EGFET on the detection of S. epidermidis biofilm and 16S rRNA of infection-related bacteria in peritoneal dialysis. Sensors and Actuators B: Chemical, 2015, 217, 92-99.	4.0	11
119	Robust sandwiched fluorinated graphene for highly reliable flexible electronics. Applied Surface Science, 2020, 499, 143839.	3.1	11
120	Element Code from Pseudopotential as Efficient Descriptors for a Machine Learning Model to Explore Potential Lead-Free Halide Perovskites. Journal of Physical Chemistry Letters, 2020, 11, 8914-8921.	2.1	11
121	Flexible Textile-Based Pressure Sensing System Applied in the Operating Room for Pressure Injury Monitoring of Cardiac Operation Patients. Sensors, 2020, 20, 4619.	2.1	11
122	Charge trapping with α-Fe <sub>2</sub> O <sub>3</sub> nanoparticles accompanied by human hair towards an enriched triboelectric series and a sustainable circular bioeconomy. Materials Horizons, 2021, 8, 3149-3162.	6.4	11
123	A real-time mirror-LAPS mini system for dynamic chemical imaging and cell acidification monitoring. Sensors and Actuators B: Chemical, 2021, 341, 130003.	4.0	11
124	Nitridation of the stacked poly-Si gate to suppress the boron penetration in pMOS. IEEE Electron Device Letters, 1995, 16, 248-249.	2.2	10
125	Light Addressable Potentiometric Sensor with Fluorine-Terminated Hafnium Oxide Layer for Sodium Detection. Japanese Journal of Applied Physics, 2010, 49, 04DL05.	0.8	10
126	Microstructural effect of gadolinium oxide nanocrystals upon annealing on electrical properties of memory devices. Thin Solid Films, 2012, 520, 5579-5583.	0.8	10

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127	Detection of KRAS mutation by combination of polymerase chain reaction (PCR) and EIS sensor with new amino group functionalization. Sensors and Actuators B: Chemical, 2013, 186, 374-379.	4.0	10
128	A revised manuscript submitted to sensors and actuators B: Chemical illumination modification from an LED to a laser to improve the spatial resolution of IGZO thin film light-addressable potentiometric sensors in pH detections. Sensors and Actuators B: Chemical, 2021, 329, 128953.	4.0	10
129	Sensing Alzheimer's Disease Utilizing Au Electrode by Controlling Nanorestructuring. Chemosensors, 2022, 10, 94.	1.8	10
130	Characteristics of Fluorine Implantation for HfO2Gate Dielectrics with High-Temperature Postdeposition Annealing. Japanese Journal of Applied Physics, 2006, 45, 2893-2897.	0.8	9
131	Current Transport Mechanism for HfO[sub 2] Gate Dielectrics with Fluorine Incorporation. Electrochemical and Solid-State Letters, 2008, 11, H15.	2.2	9
132	Characteristics of gadolinium oxide resistive switching memory with Pt–Al alloy top electrode and post-metallization annealing. Journal Physics D: Applied Physics, 2013, 46, 275103.	1.3	9
133	Microgrooved Surface Modulates Neuron Differentiation in Human Embryonic Stem Cells. Methods in Molecular Biology, 2014, 1307, 281-287.	0.4	9
134	A highly flexible platform for nanowire sensor assembly using a combination of optically induced and conventional dielectrophoresis. Optics Express, 2014, 22, 13811.	1.7	9
135	Hybrid anion and cation ion sensors with samarium oxide sensing membrane treated by nitrogen plasma immersion ion implantation. Sensors and Actuators B: Chemical, 2014, 191, 666-672.	4.0	9
136	Dimensionally anisotropic graphene with high mobility and a high on–off ratio in a three-terminal RRAM device. Materials Chemistry Frontiers, 2020, 4, 1756-1763.	3.2	9
137	ZnO-Polystyrene Composite as Efficient Energy Harvest for Self-Powered Triboelectric Nanogenerator. ECS Journal of Solid State Science and Technology, 2020, 9, 115019.	0.9	9
138	Zero Dipole Formation at HfGdO/SiO2 Interface by Hf/Gd Dual-Sputtered Method. Journal of the Electrochemical Society, 2011, 158, H502.	1.3	8
139	Superior Improvements in GIDL and Retention by Fluorine Implantation in Saddle-Fin Array Devices for Sub-40-nm DRAM Technology. IEEE Electron Device Letters, 2013, 34, 1124-1126.	2.2	8
140	Characterization on pH sensing performance and structural properties of gadolinium oxide post-treated by nitrogen rapid thermal annealing. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2014, 32, 03D113.	0.6	8
141	A Surface Acoustic Wave Sensor with a Microfluidic Channel for Detecting C-Reactive Protein. Chemosensors, 2021, 9, 106.	1.8	8
142	Enhanced resistive switching memory characteristics and mechanism using a Ti nanolayer at the W/TaOx interface. Nanoscale Research Letters, 2013, 8, 288.	3.1	8
143	Nitridization of the stacked poly-Si gate to suppress the boron penetration in pMOS. IEEE Transactions on Electron Devices, 1996, 43, 1161-1165.	1.6	7
144	A novel vertical bottom-gate polysilicon thin film transistor with self-aligned offset. IEEE Electron Device Letters, 1996, 17, 199-201.	2.2	7

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145	Fluorinated HfO <inf>2</inf> gate dielectrics engineering for CMOS by pre- and post-CF <inf>4</inf> plasma passivation. , 2008, , .		7
146	Improvements on Interface Reliability and Capacitance Dispersion of Fluorinated ALD-Al[sub 2]O[sub 3] Gate Dielectrics by CF[sub 4] Plasma Treatment. Journal of the Electrochemical Society, 2008, 155, G51.	1.3	7
147	Characterization of laser carved micro channel polycrystalline silicon solar cell. Solid-State Electronics, 2011, 61, 23-28.	0.8	7
148	Improvement of Uniformity of Resistive Switching Parameters by Selecting the Electroformation Polarity in IrO <sub>x</sub> /TaO <sub>x</sub> /WO <sub>x</sub> /W Structure. Japanese Journal of Applied Physics, 2012, 51, 04DD06.	0.8	7
149	High Polarization and Low-Repulsion \${m HfO}_{2}\$ Thin Film for Alkali Metal Ion Detections by Plasma System With a Complementary Filter. IEEE Sensors Journal, 2013, 13, 2459-2465.	2.4	7
150	Light-Immune pH Sensor with SiC-Based Electrolyte–Insulator–Semiconductor Structure. Applied Physics Express, 2013, 6, 127002.	1.1	7
151	Effects of bottom electrode on resistive switching of silver programmable metallization cells with Gd x O y /Al x O y solid electrolytes. Vacuum, 2017, 140, 30-34.	1.6	7
152	Ultrasensitive Detection of Volatile Organic Compounds by a Freestanding Aligned Ag/CdSe–CdS/PMMA Texture with Double-Side UV–Ozone Treatment. ACS Applied Materials & Interfaces, 2019, 11, 34454-34462.	4.0	7
153	Effects of CF4Plasma Treatment on pH and pNa Sensing Properties of Light-Addressable Potentiometric Sensor with a 2-nm-Thick Sensitive HfO2Layer Grown by Atomic Layer Deposition. Japanese Journal of Applied Physics, 2011, 50, 04DL06.	0.8	7
154	A Novel Trench Capacitor Enhancement Approach by Selective Liquid-Phase Deposition. IEEE Transactions on Semiconductor Manufacturing, 2005, 18, 644-648.	1.4	6
155	Electrical and Reliability Improvement in Polyoxide by Fluorine Implantation. Journal of the Electrochemical Society, 2007, 154, H259.	1.3	6
156	Ge nanocrystal charge trapping devices fabricated by one-step oxidation on poly-SiGe. Applied Surface Science, 2008, 255, 2512-2516.	3.1	6
157	Improved characteristics of Gd2O3 nanocrystal memory with substrate high–low junction. Solid-State Electronics, 2010, 54, 1493-1496.	0.8	6
158	Effects of CF <sub>4</sub> Plasma Treatment on pH and pNa Sensing Properties of Light-Addressable Potentiometric Sensor with a 2-nm-Thick Sensitive HfO <sub>2</sub> Layer Grown by Atomic Layer Deposition. Japanese Journal of Applied Physics, 2011, 50, 04DL06.	0.8	6
159	Tunable bandgap energy of fluorinated nanocrystals for flash memory applications produced by low-damage plasma treatment. Nanotechnology, 2012, 23, 475201.	1.3	6
160	Gold Nanoframe Array Electrode for Straightforward Detection of Hydrogen Peroxide. Chemosensors, 2021, 9, 37.	1.8	6
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