Sukreen Hana Herman

List of Publications by Year
in descending order

155	627	1051969 10	1051228 16
papers	citations	h-index	g-index

155	155	155	656
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Simple Touch Sensor-based Game as Ambient Assistive Device for Mild Autism Spectrum Disorder Children. , 2021, , .		2
2	EVALUATION ON THE EGFET PH SENSING PERFORMANCE OF SOL-GEL SPIN COATED TITANIUM DIOXIDE THIN FILM. Jurnal Teknologi (Sciences and Engineering), 2021, 83, 119-125.	0.3	2
3	Study on ZnO nanostructures characteristics: Growth time dependence. AIP Conference Proceedings, 2020, , .	0.3	0
4	Fabrication and Characterization of Simple Structure Fluidic-Based Memristor for Immunosensing of NS1 Protein Application. Biosensors, 2020, 10, 143.	2.3	3
5	Different direction of bias voltage on the memristive behaviour of sputtered titania thin film. AIP Conference Proceedings, 2020, , .	0.3	0
6	Sensing and physical properties of ZnO nanostructures membrane. Materials Today: Proceedings, 2019, 16, 1864-1870.	0.9	0
7	Transparent hybrid ZnO-graphene film for high stability switching behavior of memristor device. Materials Science in Semiconductor Processing, 2019, 89, 68-76.	1.9	20
8	Fabrication of integrated solid state electrode for extended gate-FET pH sensor. Materials Research Express, 2019, 6, 016419.	0.8	5
9	Crack-Free TiO2 Thin Film via Sol-Gel Dip Coating Method: Investigation on Molarity Effect. IOP Conference Series: Materials Science and Engineering, 2018, 340, 012009.	0.3	6
10	Quasi-distributed sol-gel coated fiber optic oxygen sensing probe. Optical Fiber Technology, 2018, 41, 109-117.	1.4	12
11	Influence of Phase Change Material Concentration towards ZnO Thin Film for Solar Cell. , 2018, , .		1
12	Dilute electrodeposition of TiO2and ZnO thin film memristors on Cu substrate. IOP Conference Series: Materials Science and Engineering, 2018, 340, 012006.	0.3	2
13	Modified hyperbolic sine model for titanium dioxide-based memristive thin films. IOP Conference Series: Materials Science and Engineering, 2018, 341, 012018.	0.3	3
14	Titanium Dioxide-Based Memristive Thin Film: A Correlation Study Between the Experimental Work and Simulation Program With Integrated Circuit Emphasis Hyperbolic Sine Models. IEEE Journal of the Electron Devices Society, 2018, 6, 1077-1090.	1.2	1
15	Transfer of graphene onto Pt/Glass substrate for transparent and large area graphene film using low temperature water bath. AIP Conference Proceedings, 2018, , .	0.3	1
16	Annealing Temperature Dependence of ZnO Nanostructures Grown by Facile Chemical Bath Deposition for EGFET pH Sensors. IOP Conference Series: Materials Science and Engineering, 2018, 340, 012019.	0.3	6
17	AZO nanorods thin films by sputtering method. AIP Conference Proceedings, 2018, , .	0.3	0
18	Resistive switching of Cu/Cu2O junction fabricated using simple thermal oxidation at 423 K for memristor application. IOP Conference Series: Materials Science and Engineering, 2018, 290, 012088.	0.3	2

#	Article	IF	Citations
19	Layer configurations comparison of bilayer-films for EGFET pH sensor application. AIP Conference Proceedings, 2018, , .	0.3	1
20	Drying Temperature Dependence of Sol-gel Spin Coated Bilayer Composite ZnO/TiO₂Thin Films for Extended Gate Field Effect Transistor pH Sensor. IOP Conference Series: Materials Science and Engineering, 2018, 340, 012018.	0.3	5
21	Influence of annealing time on pH sensitivity of ZnO sensing membrane for EGFET sensor. AIP Conference Proceedings, 2018, , .	0.3	0
22	Fabrication and characterisation of fluidic based memristor sensor for liquid with hydroxyl group. Sensing and Bio-Sensing Research, 2017, 14, 21-29.	2.2	13
23	Application of K-Means clustering in hot spot detection for thermal infrared images. , 2017, , .		11
24	Fabrication of fluidic-based memristor sensor for dengue virus detection. , 2017, , .		4
25	Deposition temperature dependence of ZnO nanostructures growth using TCVD for EGFET pH sensor. , 2017, , .		1
26	Multi-Layer Perceptron (MLP)-Based Nonlinear Auto-Regressive with Exogenous Inputs (NARX) Stock Forecasting Model. International Journal on Advanced Science, Engineering and Information Technology, 2017, 7, 1098.	0.2	4
27	The Structural and Electrical Properties of Nanostructures ZnO Thin Films on Flexible Substrate. International Journal on Advanced Science, Engineering and Information Technology, 2017, 7, 822.	0.2	1
28	METAL OXIDE THIN FILMS AS PH SENSING MEMBRANE FOR EXTENDED GATE FIELD EFFECT TRANSISTOR. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	0
29	THE INFLUENCE OF SOL-GEL COATED LENGTH AND WITHDRAWAL RATE ON PLASTIC OPTICAL FIBER CORE TOWARDS OXYGEN GAS SENSING SENSITIVITY. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	1
30	PH SENSITIVITY DEPENDENCY ON THE ANNEALING TEMPERATURE OF SPIN-COATED TITANIUM DIOXIDE THIN FILMS. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	2
31	CHARACTERIZATION OF ZNO/TIO2 BILAYER FILM FOR EXTENDED GATE FIELD-EFFECT TRANSISTOR (EGFET) BASED PH SENSOR. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	0
32	EGFET pH Sensor Performance Dependence on Sputtered TiO₂Sensing Membrane Deposition Temperature. Journal of Sensors, 2016, 2016, 1-9.	0.6	38
33	Spin Speed and Duration Dependence of TiO₂Thin Films pH Sensing Behavior. Journal of Sensors, 2016, 2016, 1-8.	0.6	12
34	MODELING AND SIMULATION OF TITANIA NANOSTRUCTURES MEMRISTIVE DEVICE. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	0
35	Application of discrete wavelet transform in thermal infrared image processing. , 2016, , .		1
36	Post-deposition annealing temperature dependence TiO2-based EGFET pH sensor sensitivity. AIP Conference Proceedings, 2016, , .	0.3	0

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37	Characteristics of TiO2/ZnO bilayer film towards pH sensitivity prepared by different spin coating deposition process. AIP Conference Proceedings, 2016, , .	0.3	3
38	The effect of dip-coating speed on Graphene decorated ZnO films for memristor application. , 2016, , .		3
39	Optical pH sensor based on polyaniline sol-gel film immobilized with bromothymol blue and phenol red. AIP Conference Proceedings, 2016, , .	0.3	3
40	Annealing temperature dependency of ZnO thin films memristive behavior. AIP Conference Proceedings, 2016, , .	0.3	0
41	Effect of annealing time on memristive behavior of sol-gel spincoated ZnO-based memristive device. AIP Conference Proceedings, 2016, , .	0.3	4
42	High Roff/Ron ratio liquid based memristor sensor using sol gel spin coating technique. , 2015, , .		4
43	Influence of Different Sol-gel Spin Coating Speed on Memristive Behaviour of Pt/TiO₂/ZnO/ITO Device. IOP Conference Series: Materials Science and Engineering, 2015, 99, 012020.	0.3	1
44	Transition Metal Oxide (TMO) Thin Film Memristor on Cu Substrate Using Dilute Electrodeposition Method. Materials Transactions, 2015, 56, 1302-1306.	0.4	7
45	Annealing time dependence of the physical, electrical and pH response characteristics of spin coated TiO2thin films. IOP Conference Series: Materials Science and Engineering, 2015, 99, 012021.	0.3	3
46	The Effect of the Sol-gel Spincoating Deposition Technique on the Memristive Behaviour of ZnO-based Memristive Device. IOP Conference Series: Materials Science and Engineering, 2015, 99, 012022.	0.3	3
47	Film thickness dependence of glucose response for spin-coated zinc oxide-based non-enzymatic glucose sensor. , 2015, , .		0
48	Design and characterization of three stage CMOS op amps in 130nm technology with indirect feedback compensation technique. , 2015, , .		4
49	Resistive-based Sensor System for Prosthetic Fingers Application. Procedia Computer Science, 2015, 76, 323-329.	1.2	2
50	Parallel extended gate MOSFET pH sensing system. , 2015, , .		2
51	4th International Conference on Electronic Devices, Systems and Applications 2015 (ICEDSA). IOP Conference Series: Materials Science and Engineering, 2015, 99, 011001.	0.3	0
52	Comparison on TiO2 thin film deposition method for fluidic based glucose memristor sensor. , 2015, , .		14
53	Sensing capability of TiO<inf>2</inf> thin films with different thicknesses as sensing membrane of EGFET pH sensor. , 2015, , .		3
54	Characterization of single and composites thin films memristive device. , 2015, , .		0

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55	Characterization of ROFF/RON ratio of fluidic based memristor sensor for pH detection. , 2015, , .		1
56	Performance improvement of optical fibre oxygen sensor detection scheme incorporating narrow bandpass emission optical filter. , 2015, , .		0
57	Effect of Annealing Time Process on the pH Sensitivity of Spin-coated TiO2/ ZnO Bilayer Film. IOP Conference Series: Materials Science and Engineering, 2015, 99, 012019.	0.3	1
58	Annealing temperature effect on the electrical characteristics and pH sensitivity of TiO<inf>2</inf>/ZnO bilayer films. , 2015, , .		1
59	Integrated Readout Circuit Using Active Bridge For Resistive-Based Sensing. Procedia Computer Science, 2015, 76, 430-435.	1.2	1
60	ROFF/RON ratio of nano-well fluidic memristor sensor towards hydroxide based liquid detection. , 2015, , .		4
61	Annealing time dependence of zinc oxide thin films memristive behavior. , 2015, , .		0
62	Fabrication of Flexible Au/ZnO/ITO/PET Memristor Using Dilute Electrodeposition Method. IOP Conference Series: Materials Science and Engineering, 2015, 99, 012002.	0.3	6
63	Gold-Catalyzed Growth of Aluminium-Doped Zinc Oxide Nanorods by Sputtering Method. Journal of Nanomaterials, 2014, 2014, 1-7.	1.5	5
64	Industry-relevant content embedment for the electronics engineering curriculum: A case study. , 2014, , .		1
65	Electrical properties of tetrapod zinc oxide thin films deposited by thermal-CVD method. , 2014, , .		1
66	Extended gate field effect transistor (EGFET) integrated readout interfacing circuit for pH sensing. , 2014, , .		9
67	CMOS integrated readout circuit technique for EGFET based on biosensor application. , 2014, , .		2
68	Memristor in digital logic circuit: Fabrication and proof of concept. , 2014, , .		2
69	Emission performance of optical fibre dissolved oxygen sensor using various optical fibre materials and parameters. , 2014, , .		1
70	Fluorescence characteristic of ruthenium nanoparticles as a dissolved oxygen sensing material in gas and aqueos phase. , 2014, , .		3
71	Effect of indium concentration on optical and electrical properties of in doped ZnO thin films for gas sensing application. , 2014, , .		1
72	Integrated constant voltage constant current readout interfacing circuit for EGFET electrochemical sensing. , 2014, , .		2

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73	Memristive behavior of HF-etched sputtered titania thin films. , 2014, , .		0
74	TiO<inf>2</inf>-based extended gate FET pH-sensor: Effect of annealing temperature on its sensitivity, hysteresis and stability. , 2014, , .		7
75	Switching behavior of lateral-structured zinc oxide-based memristive device. , 2014, , .		1
76	Annealing temperature dependence of resistive switching behavior for sol-gel spin coated zinc oxide thin films. , 2014, , .		2
77	I-V characteristic effects of fluidic-based memristor for glucose concentration detection. , 2014, , .		1
78	Effect of annealing temperature on electrical properties of poly (methyl methacrylate): titanium dioxide nanocomposite films using spin coating deposition technique. IOP Conference Series: Materials Science and Engineering, 2014, 64, 012051.	0.3	3
79	Electrical Characterization of Metal-Ferroelectric-Insulator- Semiconductor having Double Layered Insulator for Memory Applications. IOP Conference Series: Materials Science and Engineering, 2014, 64, 012053.	0.3	1
80	Light effect characterization of ISFET based pH sensor with Si<inf>3</inf>N<inf>4</inf> gate insulator. , 2014, , .		2
81	Memristive behaviour of spin coated titania thin film. IOP Conference Series: Materials Science and Engineering, 2014, 64, 012054.	0.3	2
82	Hybrid organic-inorganic light emitting diode using ZnO nanorods as electron transport layer. , 2013, , .		3
83	Trends of deposition and patterning techniques of TiO2 for memristor based bio-sensing applications. Microsystem Technologies, 2013, 19, 1889-1896.	1.2	14
84	Sputtered titanium dioxide thin film for Extended-Gate FET sensor application. , 2013, , .		13
85	Influence of TEOS/Si<inf>3</inf>N<inf>4</inf> passivation layer on the performance of MOSFET/ISFET structure. , 2013, , .		1
86	Modeling and simulation of microscopic defects in CIS-based solar cell thin film using silvaco TCAD. , 2013, , .		2
87	A study of fluorine dose and implant energy to the NBTI upon p+ implant sequence. , 2013, , .		2
88	Effect of channel width-to-length ratio on isothermal point of MOSFET-ISFET structure. , 2013, , .		1
89	Effect of catalyst on the fluorescence quenching of [Tris (4, 7-diphenyl-1, 10-phenanthroline) ruthenium (II) dichloride] for dissolved oxygen detection. , 2013, , .		2
90	Influence of metal catalyst for zinc oxide nanostructures grown by TCVD method for extended-gate FET sensor application. , 2013, , .		9

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91	Performance evaluation of optical fiber sensor using different oxygen sensitive nano-materials. , 2013, , .		4
92	Effect of source-drain metal shield in FET structure on drain leakage current. , 2013, , .		0
93	Detecting resistive-opens in RRAM using Programmable DfT scheme. , 2013, , .		0
94	pH sensing characteristics of silicon nitride thin film and silicon nitride-based ISFET sensor. , 2013, , .		2
95	Effect of film thickness on the memristive behavior of spin coated titanium dioxide thin films. , 2013, , .		9
96	Electrical characterization of PMMA:TiO<inf>2</inf> gate dielectric for metal-insulator-semiconductor devices. , 2013, , .		1
97	Effect of Electrode Types on the Resistive Switching Behavior of Titania Thin Films. Applied Mechanics and Materials, 2013, 393, 74-78.	0.2	4
98	Memristive Behavior of TiO₂ Nanostructures Grown at Different Substrate Positioning by Immersion Method. Advanced Materials Research, 2013, 795, 256-259.	0.3	6
99	Performance characterization of optical fiber oxygen sensor in gas and aqueos phase. , 2013, , .		0
100	Effect of TiO₂ Seed Layer Thickness to the Growth of TiO₂ Nanostructures by Immersion Method for Memristive Device Application. Applied Mechanics and Materials, 2013, 393, 63-67.	0.2	5
101	Self-Catalyzed Thermal Chemical Vapor Deposited ZnO Nanotetrapods. Advanced Materials Research, 2013, 832, 670-674.	0.3	10
102	Characterization of Metalâ€“Insulatorâ€“Semiconductor Capacitor with Poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td (met	0.8	1
103	Electrical characterization of MIS devices by varying the semiconductor layer thickness. , 2013, , .		0
104	Memristive Behavior of Plasma Treated TiO2 Thin Films. International Journal of Automotive and Mechanical Engineering, 2013, 8, 1339-1347.	0.5	4
105	Influence of Drying Temperature on the Structural, Optical, and Electrical Properties of Layer-by-Layer ZnO Nanoparticles Seeded Catalyst. Journal of Nanomaterials, 2012, 2012, 1-7.	1.5	13
106	Influence of Doping Concentration on Dielectric, Optical, and Morphological Properties of PMMA Thin Films. Advances in Materials Science and Engineering, 2012, 2012, 1-4.	1.0	18
107	Effect of annealing duration on the memristive behavior of Pt/TiO<inf>2</inf>/ITO memristive device. , 2012, , .		12
108	Physical characteristic of room-temperature deposited TiO<inf>2</inf> thin films by RF magnetron sputtering at different RF power. , 2012, , .		4

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109	Physical and electrical characteristics of low-temperature annealed spin coated zinc oxide thin films on Teflon substrates. , 2012, , .		0
110	Effect of Solvent on the Dielectric Properties of Nanocomposite Poly(methyl methacrylate)-Doped Titanium Dioxide Dielectric Films. Japanese Journal of Applied Physics, 2012, 51, 06FG09.	0.8	2
111	A study of fluorine implant in the formation of low leakage P+/N junction in BiCMOS technologies. , 2012, , .		2
112	Low-temperature direct deposition of polycrystalline silicon thin film on glass substrate by RF magnetron sputtering with applied substrate bias. , 2012, , .		0
113	An improved P+/N diode leakage current in BiCMOS technologies with fluorine co-implant. , 2012, , .		2
114	Substrate temperature dependence of nanoparticle ZnO thin films deposited on flexible substrates by RF magnetron sputtering. , 2012, , .		2
115	Effects of PMMA concentration on PMMA-based organic capacitor behavior. , 2012, , .		2
116	Physical characteristic of room-temperature deposited Ti thin films by RF magnetron sputtering at different RF power. , 2012, , .		0
117	Substrate types and deposition pressure dependences of RF-magnetron sputtered silicon thin films characteristics deposited at room temperature. , 2012, , .		0
118	Deposition temperature dependence of the sputtered nanocrystalline silicon thin films on Teflon substrates deposited by RF magnetron sputtering method. , 2012, , .		0
119	Studies on Initial Stage of High Temperature Oxidation of Fe - 9 to 12%Cr Alloys in Water Vapour Environment. Advanced Materials Research, 2012, 557-559, 100-107.	0.3	4
120	Dielectric and physical properties of PMMA:TiO<inf>2</inf> thin films by varying TiO<inf>2</inf> concentration. , 2012, , .		6
121	Characteristics of layer-by-layer ZnO nanoparticles thin films prepared with different deposition layer. , 2012, , .		5
122	Effect of solution concentration on the morphology, electrical, and optical properties of MEH-PPV thin films. , 2012, , .		5
123	Memristor Spice model for designing analog circuit. , 2012, , .		7
124	Effect of Film Thickness on Structural, Electrical, and Optical Properties of Sol-Gel Deposited Layer-by-layer ZnO Nanoparticles. Transactions on Electrical and Electronic Materials, 2012, 13, 102-105.	1.0	50
125	Effect of the deposition process on the crystallization of polycrystalline silicon thin film on glass substrate. , 2011, , .		0
126	Effect of deposition temperature on the characteristics of Zinc Oxide nanoparticles thin films deposited by thermal chemical vapor deposition. , 2011, , .		2

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127	Electrical properties of spin coated PMMA for OFETs applications. , 2011, , .		4
128	Layer-by-Layer Nanoparticles ZnO Thin Films Prepared by Sol-Gel Method. Advanced Materials Research, 2011, 403-408, 1178-1182.	0.3	2
129	Low-Temperature Crystallization of Silicon Films Directly Deposited on Glass Substrates Covered with Yttria-Stabilized Zirconia Layers. Japanese Journal of Applied Physics, 2010, 49, 105801.	0.8	9
130	Enhancing active learning through groupwork activities in engineering tutorials. , 2010, , .		4
131	Low-temperature deposition of a polycrystalline Si film on yttria-stabilized zirconia seed layer. , 2010, , .		0
132	Low-temperature Fabrication of a Crystallized Si Film Deposited on a Glass Substrate using an Yttria-stabilized Zirconia Seed Layer. Materials Research Society Symposia Proceedings, 2009, 1153, 1.	0.1	0
133	Enhancement of the crystalline quality of reactively sputtered yttria-stabilized zirconia by oxidation of the metallic target surface. Thin Solid Films, 2009, 517, 5830-5836.	0.8	7
134	Low Temperature Deposition and Crystallization of Silicon Film on an HF-Etched Polycrystalline Yttria-Stabilized Zirconia Layer Rinsed with Ethanol Solution. Applied Physics Express, 2009, 2, 041201.	1.1	8
135	Fabrication and Characterization of PZT Thin Film Capacitors for MMIC Applications. , 2006, , .		8
136	Preparation of perovskite, Pb(Zr, Ti)O3 thin-films on YSZ(111)/Si(111) substrates by post-deposition annealing. Thin Solid Films, 2001, 385, 293-297.	0.8	13
137	Modeling and Simulation of Sol-Gel Thin Films for Monolithic Microwave Integrated Circuit Applications. , 0, , .		7
138	Optical Properties and Surface Morphology of PMMA: TiO₂ Nanocomposite Thin Films. Advanced Materials Research, 0, 364, 105-109.	0.3	12
139	Optical and Electrical Characteristic of Layer-by-Layer Sol-Gel Spin Coated Nanoparticles ZnO Thin Films. Advanced Materials Research, 0, 364, 149-153.	0.3	7
140	Internal Oxidation of Ni-Cr-Al Alloys under Various Oxygen Partial Pressures at 1273 K. Advanced Materials Research, 0, 576, 429-433.	0.3	1
141	Dielectric Properties of PVDF-TrFE/PMMA: TiO₂ Multilayer Dielectric Thin Films. Advanced Materials Research, 0, 576, 582-585.	0.3	8
142	Crystalline and Structural Properties Dependence on RF Power and Deposition Temperature of Sputtered Nanocrystalline Silicon Thin Films on Teflon and Glass Substrates. Advanced Materials Research, 0, 576, 475-479.	0.3	0
143	Structural Properties of Deposited ZnO Thin Films on Flexible Substrates at Various Substrate Temperatures and RF Power. Advanced Materials Research, 0, 576, 598-601.	0.3	0
144	Room-Temperature Deposition of Silicon Thin Films by RF Magnetron Sputtering. Advanced Materials Research, 0, 576, 543-547.	0.3	6

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145	Electrical Properties Dependence on Substrate Temperature of Sputtered ZnO Nanoparticles Thin Films on Teflon Substrates. Advanced Materials Research, 0, 795, 403-406.	0.3	3
146	Effect of Seed Layer Morphology on the Growth of Zinc Oxide Nanotetrapods by Thermal Chemical Vapour Deposition Method. Advanced Materials Research, 0, 832, 429-433.	0.3	1
147	Electrical Characterization of Metal Insulator Semiconductor Using ZnO Low Deposition Temperature as Semiconductor Layer. Advanced Materials Research, 0, 832, 270-275.	0.3	1
148	Influence of Different Types of Silanes on the Properties of Nanocomposite PMMA: TiO₂ Thin Films. Advanced Materials Research, 0, 667, 255-259.	0.3	0
149	Substrate Temperature Dependence on Sputtered Titania Thin Film. Advanced Materials Research, 0, 795, 294-298.	0.3	1
150	Effect of Post-Deposition Annealing Process on the Resistive Switching Behaviour of TiO₂ Thin Films by Sol-Gel Method. Advanced Materials Research, 0, 925, 125-129.	0.3	10
151	Effect of Metal Catalyst Morphology on the Growth of Zinc Oxide Nanostructure by Thermal Vapor Deposition Method. Advanced Materials Research, 0, 925, 120-124.	0.3	1
152	Effect of Oxygen Flow Rate on the Memristive Behavior of Reactively Sputtered TiO₂ Thin Films. Advanced Materials Research, 0, 1024, 64-67.	0.3	2
153	Effect of Metal Catalysts Type and Annealing Time on the Growth of Zinc Oxide Nanostructures by Thermal Vapor Deposition Method. Advanced Materials Research, 0, 1024, 60-63.	0.3	0
154	Effect of Post Deposition Annealing Process on the pH Sensitivity of Spin-Coated Titanium Dioxide Thin Film. Applied Mechanics and Materials, 0, 749, 197-201.	0.2	3
155	Switching Behavior of Titania-Zinc Oxide Composites Thin Films. Applied Mechanics and Materials, 0, 749, 308-312.	0.2	4