

Ooi Kiang Tan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4833319/publications.pdf>

Version: 2024-02-01

183
papers

5,895
citations

66234

42
h-index

95083

68
g-index

184
all docs

184
docs citations

184
times ranked

7045
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrothermally grown oriented ZnO nanorod arrays for gas sensing applications. <i>Nanotechnology</i> , 2006, 17, 4995-4998.	1.3	636
2	Sensing Mechanisms for Carbon Nanotube Based NH ₃ Gas Detection. <i>Nano Letters</i> , 2009, 9, 1626-1630.	4.5	223
3	Low-temperature Growth of SnO ₂ Nanorod Arrays and Tunable n-p-n Sensing Response of a ZnO/SnO ₂ Heterojunction for Exclusive Hydrogen Sensors. <i>Advanced Functional Materials</i> , 2011, 21, 2680-2686.	7.8	218
4	Semiconductor gas sensor based on Pd-doped SnO ₂ nanorod thin films. <i>Sensors and Actuators B: Chemical</i> , 2008, 132, 239-242.	4.0	145
5	Preparation and characterization of Pb(Zr _{0.52} Ti _{0.48})O ₃ ceramics from high-energy ball milling powders. <i>Materials Letters</i> , 2000, 42, 232-239.	1.3	131
6	Preparation, surface state and band structure studies of SrTi(1-x)Fe(x)O(3-δ) (x=0-1) perovskite-type nano structure by X-ray and ultraviolet photoelectron spectroscopy. <i>Surface Science</i> , 2012, 606, 670-677.	0.8	128
7	Facile fabrication and characterization of multi-type carbon-doped TiO ₂ for visible light-activated photocatalytic mineralization of gaseous toluene. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4497.	5.2	122
8	Ethanol sensors based on nano-sized λ-Fe ₂ O ₃ with SnO ₂ , ZrO ₂ , TiO ₂ solid solutions. <i>Sensors and Actuators B: Chemical</i> , 2003, 93, 396-401.	4.0	111
9	Size effect and gas sensing characteristics of nanocrystalline xSnO ₂ -(1-x)λ-Fe ₂ O ₃ ethanol sensors. <i>Sensors and Actuators B: Chemical</i> , 2000, 65, 361-365.	4.0	106
10	Preparation of Bi ₄ Ti ₃ O ₁₂ ceramics via a high-energy ball milling process. <i>Materials Letters</i> , 2001, 51, 108-114.	1.3	99
11	Semiconductor gas sensor based on tin oxide nanorods prepared by plasma-enhanced chemical vapor deposition with postplasma treatment. <i>Applied Physics Letters</i> , 2005, 87, 163123.	1.5	92
12	Frequency and temperature dependent impedance spectroscopy of cobalt ferrite composite thick films. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	92
13	A New Form of Nanosized SrTiO ₃ Material for Near-Human-Body Temperature Oxygen Sensing Applications. <i>Journal of Physical Chemistry B</i> , 2004, 108, 11214-11218.	1.2	88
14	A two-step hydrothermally grown ZnO microtube array for CO gas sensing. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 88, 611-615.	1.1	85
15	Microhotplates for Metal Oxide Semiconductor Gas Sensor Applications—Towards the CMOS-MEMS Monolithic Approach. <i>Micromachines</i> , 2018, 9, 557.	1.4	84
16	The effects of annealing temperature on the sensing properties of low temperature nano-sized SrTiO ₃ oxygen gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2005, 108, 244-249.	4.0	79
17	High sensitivity SnO ₂ single-nanorod sensors for the detection of H ₂ gas at low temperature. <i>Nanotechnology</i> , 2009, 20, 115501.	1.3	76
18	Hydrothermal Growth of TiO ₂ Nanorod Arrays and In Situ Conversion to Nanotube Arrays for Highly Efficient Quantum Dot-sensitized Solar Cells. <i>Small</i> , 2013, 9, 3153-3160.	5.2	76

#	ARTICLE	IF	CITATIONS
19	Nano-structured oxide semiconductor materials for gas-sensing applications. <i>Ceramics International</i> , 2004, 30, 1127-1133.	2.3	69
20	Effect of ball milling on the characteristics of nano structure SrFeO ₃ powder for photocatalytic degradation of methylene blue under visible light irradiation and its reaction kinetics. <i>Catalysis Today</i> , 2011, 161, 70-77.	2.2	64
21	Dark ambient degradation of Bisphenol A and Acid Orange 8 as organic pollutants by perovskite SrFeO ₃ metal oxide. <i>Journal of Hazardous Materials</i> , 2013, 260, 1-8.	6.5	60
22	Microstructure, dielectric properties and hydrogen gas sensitivity of sputtered amorphous Ba _{0.67} Sr _{0.33} TiO ₃ thin films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2000, 77, 177-184.	1.7	59
23	Preparation of Fe ₂ O ₃ (0.9)SnO ₂ (0.1) by hydrazine method: application as an alcohol sensor. <i>Sensors and Actuators B: Chemical</i> , 2002, 81, 170-175.	4.0	59
24	Synthesis of mono-dispersed m-BiVO ₄ octahedral nano-crystals with enhanced visible light photocatalytic properties. <i>CrystEngComm</i> , 2011, 13, 6674.	1.3	57
25	Pt surface modification of SnO ₂ nanorod arrays for CO and H ₂ sensors. <i>Nanoscale</i> , 2010, 2, 1203.	2.8	56
26	Effect of the TiO ₂ shell thickness on the dye-sensitized solar cells with ZnO@TiO ₂ core-shell nanorod electrodes. <i>Electrochimica Acta</i> , 2011, 58, 19-24.	2.6	56
27	Investigation of local structure effect and X-ray absorption characteristics (EXAFS) of Fe (Ti) K-edge on photocatalyst properties of SrTi(1-x)FexO ₃ . <i>Materials Chemistry and Physics</i> , 2012, 136, 347-357.	2.0	54
28	Semiconductor gas sensors. , 2013, , .		54
29	A low temperature nano-structured SrTiO ₃ thick film oxygen gas sensor. <i>Ceramics International</i> , 2004, 30, 1819-1822.	2.3	52
30	Dense PZT thick films derived from sol-gel based nanocomposite process. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2003, 99, 56-62.	1.7	51
31	Preparation and characterization of PLZT ceramics using high-energy ball milling. <i>Journal of Alloys and Compounds</i> , 2001, 322, 290-297.	2.8	50
32	Preparation of PMN-PT ceramics via a high-energy ball milling process. <i>Journal of Alloys and Compounds</i> , 2002, 336, 242-246.	2.8	50
33	SnO ₂ nanorod arrays: low temperature growth, surface modification and field emission properties. <i>Nanoscale</i> , 2012, 4, 1491-1496.	2.8	50
34	XPS characterization of xFe ₂ O ₃ (1-x)ZrO ₂ for oxygen gas sensing application. <i>Materials Chemistry and Physics</i> , 2002, 75, 67-70.	2.0	49
35	Micromachined thick film piezoelectric ultrasonic transducer array. <i>Sensors and Actuators A: Physical</i> , 2006, 130-131, 485-490.	2.0	49
36	A label-free immunosensor for diagnosis of dengue infection with simple electrical measurements. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1137-1142.	5.3	49

#	ARTICLE	IF	CITATIONS
37	m-BiVO ₄ @ ¹³ -Bi ₂ O ₃ core-shell heterogeneous nanostructure for enhanced visible-light photocatalytic performance. RSC Advances, 2013, 3, 24964.	1.7	48
38	TiO ₂ rutile-anatase core-shell nanorod and nanotube arrays for photocatalytic applications. RSC Advances, 2013, 3, 3566.	1.7	48
39	Structural and gas sensing properties of ultrafine Fe ₂ O ₃ prepared by plasma enhanced chemical vapor deposition. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1997, 47, 171-176.	1.7	45
40	Low Temperature Processing of Nanocrystalline Lead Zirconate Titanate (PZT) Thick Films and Ceramics by a Modified Sol-Gel Route. Japanese Journal of Applied Physics, 2002, 41, 6969-6975.	0.8	45
41	Visualizing charge transport in silicon nanocrystals embedded in SiO ₂ films with electrostatic force microscopy. Applied Physics Letters, 2004, 85, 2941-2943.	1.5	45
42	Nanostructured oxides by high-energy ball milling technique: application as gas sensing materials. Solid State Ionics, 2004, 172, 309-316.	1.3	44
43	Fabrication and characterization of piezoelectric micromachined ultrasonic transducers with thick composite PZT films. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 2289-2297.	1.7	44
44	Gate modulation in carbon nanotube field effect transistors-based NH ₃ gas sensors. Sensors and Actuators B: Chemical, 2008, 132, 191-195.	4.0	43
45	Fabrication at wafer level of miniaturized gas sensors based on SnO ₂ nanorods deposited by PECVD and gas sensing characteristics. Sensors and Actuators B: Chemical, 2011, 154, 283-287.	4.0	43
46	Ferromagnetic, ferroelectric and dielectric properties of Pb(Zr _{0.53} Ti _{0.47})O ₃ /CoFe ₂ O ₄ multiferroic composite thick films. Journal Physics D: Applied Physics, 2009, 42, 075421.	1.3	42
47	Microstructure and hydrogen gas sensitivity of amorphous (Ba,Sr)TiO ₃ thin film sensors. Sensors and Actuators B: Chemical, 2000, 65, 366-370.	4.0	40
48	In situ growth of SnO ₂ nanorods by plasma treatment of SnO ₂ thin films. Nanotechnology, 2006, 17, 3668-3672.	1.3	39
49	Preparation of TiO ₂ -Coated Polyester Fiber Filter by Spray-Coating and Its Photocatalytic Degradation of Gaseous Formaldehyde. Aerosol and Air Quality Research, 2012, 12, 1327-1335.	0.9	39
50	Band gap measurement of SrFeO ₃ by ultraviolet photoelectron spectroscopy and photovoltage method. CrystEngComm, 2012, 14, 7487.	1.3	39
51	Ultrasound radiating performances of piezoelectric micromachined ultrasonic transmitter. Applied Physics Letters, 2005, 86, 033508.	1.5	35
52	Plasma treatment of SnO ₂ nanocolumn arrays deposited by liquid injection plasma-enhanced chemical vapor deposition for gas sensors. Sensors and Actuators B: Chemical, 2009, 138, 201-206.	4.0	35
53	Controlled one-pot synthesis of pH-sensitive self-assembled diblock copolymers and their aggregation behavior. Polymer, 2005, 46, 10045-10055.	1.8	34
54	Antibacterial activities of mechanochemically synthesized perovskite strontium titanate ferrite metal oxide. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 456, 169-175.	2.3	33

#	ARTICLE	IF	CITATIONS
55	Lead zirconate titanate ceramics derived from oxide mixture treated by a high-energy ball milling process. <i>Materials Letters</i> , 2001, 50, 129-133.	1.3	32
56	An amorphous-like $x\text{Fe}_2\text{O}_3(1-x)\text{ZrO}_2$ solid solution system for low temperature resistive-type oxygen sensing. <i>Sensors and Actuators B: Chemical</i> , 2001, 77, 421-426.	4.0	32
57	Title is missing!. <i>Journal of Materials Science: Materials in Electronics</i> , 1998, 9, 275-278.	1.1	31
58	Amorphous ferroelectric $(\text{Ba}_{0.67}\text{Sr}_{0.33})\text{Ti}_{1.02}\text{O}_3$ thin films with enhanced H_2 induced interfacial polarization potential. <i>Journal of Applied Physics</i> , 1998, 84, 5134-5139.	1.1	31
59	Preparation, Property, and Mechanism Studies of Amorphous Ferroelectric $(\text{Ba}, \text{Sr})\text{TiO}_3$ Thin Films for Novel Metal-ferroelectric-metal Type Hydrogen Gas Sensors. <i>Journal of Materials Research</i> , 2000, 15, 1291-1302.	1.2	31
60	Hierarchical porous/hollow tin oxide nanostructures mediated by polypeptide: surface modification, characterization, formation mechanism and gas-sensing properties. <i>Nanotechnology</i> , 2006, 17, 5960-5969.	1.3	31
61	Amorphous $\text{Pb}(\text{Zr}, \text{Ti})\text{O}_3$ thin film hydrogen gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2001, 77, 416-420.	4.0	30
62	Effects of plasma treatment on the growth of SnO_2 nanorods from SnO_2 thin films. <i>Nanotechnology</i> , 2006, 17, 743-746.	1.3	29
63	Mechanical Alloying and Thermal Decomposition of $(\text{ZrO}_2)_{0.8}(\text{Fe}_2\text{O}_3)_{0.2}$ Powder for Gas Sensing Applications. <i>Journal of Solid State Chemistry</i> , 2000, 155, 320-325.	1.4	27
64	Reaction sintering of partially reacted system for PZT ceramics via a high-energy ball milling. <i>Scripta Materialia</i> , 2001, 44, 345-350.	2.6	27
65	Preparation and characterization of $\text{Pb}(\text{Zr}_{0.53}\text{Ti}_{0.47})\text{O}_3/\text{CoFe}_2\text{O}_4$ composite thick films by hybrid sol-gel processing. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009, 162, 47-52.	1.7	27
66	Impedance spectroscopy and conductivity mechanism of $\text{CoFe}_2\text{O}_4/\text{Pb}(\text{Zr}_{0.53}\text{Ti}_{0.47})\text{O}_3$ composite thick films. <i>Journal of Alloys and Compounds</i> , 2010, 508, 141-146.	2.8	27
67	Preparation and characterization of nanocrystalline SnO_2 thin films by PECVD. <i>Journal of Crystal Growth</i> , 2006, 288, 70-74.	0.7	26
68	Alcohol sensor based on a non-equilibrium nanostructured $x\text{ZrO}_2(1-x)\text{Fe}_2\text{O}_3$ solid solution system. <i>Sensors and Actuators B: Chemical</i> , 2000, 63, 129-134.	4.0	25
69	PbTiO_3 ceramics derived from high-energy ball milled nano-sized powders. <i>Journal of Materials Science Letters</i> , 2000, 19, 1963-1966.	0.5	25
70	Highly enhanced sinterability of commercial PZT powders by high-energy ball milling. <i>Materials Letters</i> , 2000, 46, 274-280.	1.3	25
71	Selective detection of ethanol vapor using $x\text{TiO}_2(1-x)\text{WO}_3$ based sensor. <i>Sensors and Actuators B: Chemical</i> , 2003, 94, 99-102.	4.0	25
72	Mechanochemically synthesized m-BiVO_4 nanoparticles for visible light photocatalysis. <i>RSC Advances</i> , 2016, 6, 15796-15802.	1.7	25

#	ARTICLE	IF	CITATIONS
73	Direct formation of nano-sized PbTiO ₃ powders by high energy ball milling. <i>Ferroelectrics</i> , 1999, 230, 281-286.	0.3	24
74	Translucent PMN and PMN-PT ceramics from high-energy ball milling derived powders. <i>Materials Research Bulletin</i> , 2002, 37, 23-32.	2.7	24
75	Poling of multilayer Pb(Zr _{0.3} Ti _{0.7})O ₃ /PbTiO ₃ thin film for pyroelectric infrared sensor application. <i>Infrared Physics and Technology</i> , 2003, 44, 177-182.	1.3	24
76	Synthesis and characterization of yttrium aluminum garnet by high-energy ball milling. <i>Optical Materials</i> , 2009, 31, 716-719.	1.7	24
77	Facile fabrication of Ag/C-TiO ₂ nanoparticles with enhanced visible light photocatalytic activity for disinfection of <i>Escherichia coli</i> and <i>Enterococcus faecalis</i> . <i>Journal of Materials Chemistry B</i> , 2013, 1, 564-570.	2.9	24
78	Rapid formation of lead magnesium niobate-based ferroelectric ceramics via a high-energy ball milling process. <i>Materials Research Bulletin</i> , 2002, 37, 459-465.	2.7	23
79	Aging-induced giant recoverable electrostrain in Fe-doped 0.62Pb(Mg ₁₋₃ Nb ₂₋₃)O ₃ ~0.38PbTiO ₃ single crystals. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	23
80	Phase formation and thermal stability of (Zr _{1-x} Ti _x)O ₂ solid solution via a high-energy ball milling process. <i>Journal of Alloys and Compounds</i> , 2002, 335, 290-296.	2.8	22
81	Lead zirconate titanate ceramics achieved by reaction sintering of PbO and high-energy ball milled (ZrTi)O ₂ nanosized powders. <i>Materials Letters</i> , 2002, 55, 370-377.	1.3	22
82	Enhanced field emission of silicon tips coated with sol-gel-derived (Ba _{0.65} Sr _{0.35})TiO ₃ thin film. <i>Surface and Coatings Technology</i> , 2005, 198, 266-269.	2.2	22
83	Dielectric film for biosensor application. <i>Sensors and Actuators B: Chemical</i> , 2006, 119, 78-83.	4.0	22
84	Pb(Zr _{0.3} Ti _{0.7})O ₃ ~PbTiO ₃ multilayer thin films for pyroelectric infrared sensor application. <i>Journal of Applied Physics</i> , 2006, 99, 094108.	1.1	22
85	Preparation and characterization of translucent PLZT8/65/35 ceramics from nano-sized powders produced by a high-energy ball-milling process. <i>Materials Research Bulletin</i> , 2001, 36, 1675-1685.	2.7	21
86	Fabrication and characterization of nano-sized SrTiO ₃ -based oxygen sensor for near room-temperature operation. <i>IEEE Sensors Journal</i> , 2005, 5, 825-832.	2.4	21
87	Growth and structure properties of La _{1-x} Sr _x MnO ₃ (x=0.2, 0.3, 0.45) thin film grown on SrTiO ₃ (001) single-crystal substrate by laser molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2009, 311, 3289-3294.	0.7	21
88	Synthesis and visible light photocatalytic properties of SrTi(1-x)FexO(3) powder for indoor decontamination. <i>Powder Technology</i> , 2012, 225, 221-226.	2.1	21
89	Scanning homodyne interferometer for characterization of piezoelectric films and microelectromechanical systems devices. <i>Review of Scientific Instruments</i> , 2005, 76, 063906.	0.6	20
90	Influence of annealing temperature on the band structure of sol-gel Ba _{0.65} Sr _{0.35} TiO ₃ thin films on n-type Si(100). <i>Applied Physics Letters</i> , 2006, 88, 132907.	1.5	20

#	ARTICLE	IF	CITATIONS
91	Mechanochemically synthesized CuO/m-BiVO ₄ composite with enhanced photoelectrochemical and photocatalytic properties. RSC Advances, 2016, 6, 65038-65046.	1.7	20
92	Hydrogen-sensitive V characteristics of metal-ferroelectric gas sensor device fabricated by sol-gel technique. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1999, 58, 221-228.	1.7	19
93	Preparation and characterization of PLZT (8/65/35) ceramics via reaction sintering from ball milled powders. Materials Letters, 2002, 52, 378-387.	1.3	19
94	Microstructure and properties of PZT53/47 thick films derived from sols with submicron-sized PZT particle. Ceramics International, 2004, 30, 1925-1927.	2.3	18
95	Charge injection and tunneling mechanism of solid state reaction silicon nanocrystal film. Applied Physics Letters, 2006, 89, 113119.	1.5	18
96	Processing and characterization of Pb(Zr,Ti)O ₃ thick films on platinum-coated silicon substrate derived from sol-gel deposition. Materials Chemistry and Physics, 2002, 75, 71-75.	2.0	17
97	Multiferroic behavior and magnetoelectric effect in CoFe ₂ O ₄ thin films. Solid State Communications, 2010, 150, 271-274.	0.9	17
98	Oxygen-sensing property of sol-gel-derived SrTi _{1-x} Fe _x O ₃ thin films with different iron concentrations (x=0.2-0.8). Thin Solid Films, 2013, 542, 393-398.	0.8	17
99	Pb(Zr _x Ti _{1-x})O ₃ ceramics via reactive sintering of partially reacted mixture produced by a high-energy ball milling process. Journal of Materials Research, 2001, 16, 1636-1643.	1.2	16
100	Comparison study on sol-gel Pb(Zr _{0.3} Ti _{0.7})O ₃ and Pb(Zr _{0.3} Ti _{0.7})O ₃ /PbTiO ₃ multilayer thin films for pyroelectric infrared detectors. Microelectronic Engineering, 2003, 66, 738-744.	1.1	16
101	Deposition of nanostructured thin films using an inductively coupled plasma chemical vapor deposition technique. Ceramics International, 2004, 30, 1869-1872.	2.3	15
102	Defect-induced photoluminescence from tetraethylorthosilicate thin films containing mechanically milled silicon nanocrystals. Journal of Applied Physics, 2005, 97, 104307.	1.1	15
103	Microstructures, ferromagnetic, and ferroelectric properties in polyvinylpyrrolidone-assisted CoFe ₂ O ₄ /Pb(Zr _{0.53} Ti _{0.47})O ₃ multiferroic composite thick films. Journal of Materials Science, 2009, 44, 4939-4943.	1.7	15
104	Facile in situ synthesis of visible light-active Pt/CaTiO ₂ nanoparticles for environmental remediation. Journal of Environmental Chemical Engineering, 2014, 2, 1214-1220.	3.3	15
105	Ferroelectric (Ba, Sr)TiO ₃ thin films for H ₂ gas detection by sol-gel and RF sputtering. Ferroelectrics, 1999, 225, 295-302.	0.3	14
106	Preparation and characterization of lead zirconate ceramics from high-energy ball milled powder. Materials Letters, 2001, 49, 96-101.	1.3	14
107	Effect of annealing temperature on the electron emission characteristics of silicon tips coated with Ba _{0.67} Sr _{0.33} TiO ₃ thin film. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2003, 21, 453.	1.6	14
108	Effects of intermediate dielectric films on multilayer surface plasmon resonance behavior. Acta Biomaterialia, 2008, 4, 2016-2027.	4.1	14

#	ARTICLE	IF	CITATIONS
109	High dielectric tunability of Ba _{0.6} Sr _{0.4} TiO ₃ thin film deposited by radio-frequency magnetron sputtering. <i>Materials Research Bulletin</i> , 2009, 44, 1709-1711.	2.7	14
110	Effect of annealing temperature on the crystallization and oxygen sensing property of strontium titanate ferrite sol-gel thin films. <i>Sensors and Actuators B: Chemical</i> , 2013, 187, 20-26.	4.0	14
111	Effect of Annealing Temperature on Microstructure and UV Light Photocatalytic Activity of TiO ₂ Films Grown by Atmospheric Pressure CVD. <i>Chemical Vapor Deposition</i> , 2014, 20, 44-50.	1.4	13
112	Title is missing!. <i>Journal of Materials Science: Materials in Electronics</i> , 2002, 13, 89-94.	1.1	12
113	Nanosized Metal-Oxide Semiconducting $\text{SrTi}_{1-x}\text{O}_{3-\delta}$ Oxygen Gas Sensors for Low-Temperature Application. <i>IEEE Sensors Journal</i> , 2006, 6, 1389-1394.	2.4	12
114	Self-Organization of a Hybrid Nanostructure consisting of a Nanoneedle and Nanodot. <i>Small</i> , 2012, 8, 2807-2811.	5.2	12
115	Effect of annealing temperature on the sol-gel derived Pb(Zr _{0.3} Ti _{0.7})O ₃ thin films for pyroelectric application. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2003, 99, 173-178.	1.7	11
116	Study of $\text{Fe}_{2-x}\text{O}_3 - (1-x)\text{ZrO}_2$ solid solution for low-temperature resistive oxygen gas sensors. <i>IEEE Sensors Journal</i> , 2003, 3, 421-434.	2.4	11
117	Enhanced Charge Transport Properties of Dye-Sensitized Solar Cells Using TiN _x O _y Nanostructure Composite Photoanode. <i>Journal of Physical Chemistry C</i> , 2012, 116, 19659-19664.	1.5	11
118	Photocatalytic activity of tin-doped TiO ₂ film deposited via aerosol assisted chemical vapor deposition. <i>Thin Solid Films</i> , 2013, 544, 571-575.	0.8	11
119	N ₂ -TiO ₂ -coated polyester filters for visible light Photocatalytic removal of gaseous toluene under static and dynamic flow conditions. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 357-364.	3.3	11
120	Phase formation lead zirconate titanate via a high-energy ball milling process. <i>Journal of Materials Science Letters</i> , 2002, 21, 25-27.	0.5	10
121	Measurement of longitudinal piezoelectric coefficient of film with scanning-modulated interferometer. <i>Sensors and Actuators A: Physical</i> , 2006, 128, 327-332.	2.0	10
122	Electron emission of silicon field emitter arrays coated with N-doped SrTiO ₃ film. <i>Journal of Electroceramics</i> , 2006, 16, 419-423.	0.8	10
123	Novel immunosensor platform based on inorganic barium strontium titanate film for human IgG detection. <i>Sensors and Actuators B: Chemical</i> , 2010, 149, 381-388.	4.0	10
124	Preparation of PMN powders and ceramics via a high-energy ball milling process. <i>Journal of Materials Science Letters</i> , 2001, 20, 1241-1243.	0.5	9
125	Sol-Gel (Ba _{0.67} Sr _{0.33})Ti _x O _y Thin Films for Flat Panel Display Application. <i>Integrated Ferroelectrics</i> , 2002, 49, 221-229.	0.3	9
126	Hydrogen-Sensitive Amorphous Ferroelectric Thin Film Capacitive Devices. <i>Integrated Ferroelectrics</i> , 2002, 44, 25-75.	0.3	9

#	ARTICLE	IF	CITATIONS
127	Metal-oxide-SiO ₂ / composite ZnO lasers. IEEE Photonics Technology Letters, 2005, 17, 1815-1817.	1.3	9
128	Wafer-Level Fabrication and Gas Sensing Properties of miniaturized gas sensors based on Inductively Coupled Plasma Deposited Tin Oxide Nanorods. Procedia Chemistry, 2009, 1, 196-199.	0.7	9
129	Scanning probe microscopy observation of nanoscale domain switching in sol-gel PbTiO ₃ thin films. Materials Chemistry and Physics, 2002, 75, 90-94.	2.0	8
130	The ferroelectric-antiferroelectric transition in Pb[Zr _{0.9} (Ce _x Ti _{1-x}) _{0.1}]O ₃ due to Ce ⁴⁺ doping. Solid State Communications, 2003, 125, 297-300.	0.9	8
131	Noise and specific detectivity of pyroelectric detectors using lead titanate zirconate (PZT) thin films. Microelectronic Engineering, 2003, 66, 785-791.	1.1	8
132	SnO ₂ Nanorods Prepared by Inductively Coupled Plasma-Enhanced Chemical Vapor Deposition. IEEE Nanotechnology Magazine, 2007, 6, 465-468.	1.1	8
133	Colour sensor for (bio)chemical/biological discrimination and detection. Materials Science in Semiconductor Processing, 2002, 5, 17-22.	1.9	7
134	Title is missing!. Journal of Materials Science Letters, 2002, 21, 197-199.	0.5	7
135	Amorphous ferroelectric thin film capacitive device for hydrogen detection. Journal of Materials Science, 2003, 38, 4353-4363.	1.7	7
136	Characteristics of mechanically milled silicon nanocrystals embedded in TEOS thin films. Journal of Crystal Growth, 2006, 288, 92-95.	0.7	7
137	Study of gaseous interactions in carbon nanotube field-effect transistors through selective Si ₃ N ₄ passivation. Nanotechnology, 2008, 19, 465201.	1.3	7
138	Characterization of sol-gel derived Pb(Zr _{0.3} Ti _{0.7})O ₃ /PbTiO ₃ multilayer thin films. Ceramics International, 2004, 30, 1835-1841.	2.3	6
139	Dielectric properties of Ba _{0.6} Sr _{0.4} TiO ₃ thin films deposited by mist plasma evaporation using aqueous solution precursor. Journal of Applied Physics, 2006, 99, 114105.	1.1	6
140	(Ba,Sr)TiO ₃ thin films by RF multitarget co-sputtering and hydrogen gas sensing properties. Ferroelectrics, 1999, 232, 71-76.	0.3	5
141	Deposition and gas sensing properties of tin oxide thin films by inductively coupled plasma chemical vapor deposition. Journal of Electroceramics, 2006, 16, 507-509.	0.8	5
142	Mechanochemical synthesis of nanostructured Sr(Ti _{1-x} Fe _x)O ₃ solid-solution powders and their surface photovoltage responses. Journal of Solid State Chemistry, 2012, 189, 80-84.	1.4	5
143	Modulating and tuning relative permittivity of dielectric composites at metamaterial unit cell level for microwave applications. Materials Research Bulletin, 2017, 96, 164-170.	2.7	5
144	Rotary Multilayer Split Morphing Piezoelectric Microactuator for Dual-Stage Actuation Systems in High Track Density Hard Disk Drives. Japanese Journal of Applied Physics, 2001, 40, 5761-5765.	0.8	4

#	ARTICLE	IF	CITATIONS
145	Micromachined thick film piezoelectric ultrasonic transducer array. , 0, , .		4
146	Annealing Temperature Effect on Field Emission of Silicon Emitter Arrays with Sol-Gel (Ba _{0.65} Sr _{0.35})TiO ₃ Coatings. Ferroelectrics, 2006, 334, 253-261.	0.3	4
147	Effect of excess TiO ₂ on the phase evolution and densification of sol-gel derived (Ba,Sr)TiO ₃ powders. Journal of Electroceramics, 2006, 16, 337-341.	0.8	4
148	Si field emitter arrays coated with thin ferroelectric films. Ceramics International, 2008, 34, 971-977.	2.3	4
149	Growth and structure investigation of multiferroic superlattices: $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si22.gif" display="inline"} \rangle$		

#	ARTICLE	IF	CITATIONS
163	Domain imaging and local piezoelectric response of sol-gel PbTiO ₃ thin films using SPM. <i>Ferroelectrics</i> , 2001, 264, 207-212.	0.3	1
164	Thermal Analysis of Pyroelectric Infrared Sensors Fabricated by a Flip-Chip Transfer Method. <i>Integrated Ferroelectrics</i> , 2002, 49, 245-254.	0.3	1
165	Characterization of Nano-Sized SrTi _{1-x} O _{3-4x} /Metal Oxide Semiconducting Oxygen Gas Sensors for Near Human-Body Temperature Application. , 0, , .		1
166	Influence of oxidizing ambient to tetraethylorthosilicate thin films containing solid-state reaction silicon nanocrystals. <i>Applied Physics Letters</i> , 2006, 88, 103101.	1.5	1
167	A label-free immunosensor for diagnosis of dengue infection with simple electrical measurements. , 2009, , .		1
168	Effect of deposition temperature on the microstructure and dielectric properties of Ba _{0.6} Sr _{0.4} TiO ₃ thin film deposited by radio-frequency magnetron sputtering. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 1510-1514.	0.8	1
169	HfO ₂ -TiO ₂ Ultra-Thin Gate Dielectric by RF Sputtering. <i>Ferroelectrics</i> , 2010, 410, 129-136.	0.3	1
170	Fabrication at wafer level of micromachined gas sensors based on SnO ₂ nanorods deposited by PECVD and gas sensing characteristics. , 2011, , .		1
171	The Investigation of Functionalized BST Thin Film Surface for Immunosensor Application. <i>Sensor Letters</i> , 2011, 9, 321-327.	0.4	1
172	A Novel H ₂ Gas Sensor Using Amorphous (Ba,Sr)TiO ₃ and Pb(Zr,Ti)O ₃ Thin Films and its Mechanism Study. <i>Key Engineering Materials</i> , 2002, 214-215, 183-188.	0.4	0
173	Plasma Surface Modification and Gas Sensing Properties of SnO ₂ Thin Films Prepared by Plasma Enhanced Chemical Vapor Deposition. , 0, , .		0
174	DISSIPATION OF CHARGES IN SILICON NANOCRYSTALS EMBEDDED IN SiO ₂ DIELECTRIC FILMS: AN ELECTROSTATIC FORCE MICROSCOPY STUDY. <i>International Journal of Nanoscience</i> , 2005, 04, 709-715.	0.4	0
175	Immobilization of bovine serum albumin on self-assembled monolayer modified dielectric film for biosensor application. , 2005, , .		0
176	A novel impedimetric immunosensor based on sol-gel derived Barium Strontium Titanate composite film. , 2006, , .		0
177	An electrical study of behaviors of Si nanocrystals distributed in the gate oxide near the oxide/substrate interface of a MOS structure. <i>Thin Solid Films</i> , 2006, 504, 32-35.	0.8	0
178	Structure and electrical properties of Ba _{0.67} Sr _{0.33} TiO ₃ thin film fabricated by sol-gel based composite technique. <i>Journal of Electroceramics</i> , 2006, 16, 483-488.	0.8	0
179	Editorial Introduction for the Special Issue on Sensors for Microfluidic Analysis Systems. <i>IEEE Sensors Journal</i> , 2008, 8, 427-429.	2.4	0
180	Highly selective H ₂ gas sensors based on ZnO-modified SnO ₂ nanorod arrays. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
181	A novel immunosensor platform based on inorganic BST film for point-of-care application. , 2010, , .		0
182	Enhanced photovoltaic performance of dye-sensitized solar cell using composite photoanode on 3D electrode. , 2013, , .		0
183	<l>A Special Issue on</l> 7th East Asian Conference on Chemical Sensors (EACCS 2007). Sensor Letters, 2008, 6, 785-786.	0.4	0