

Fukai Shan

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110
papers

4,037
citations

36
h-index

61
g-index

115
ext. papers

4,583
ext. citations

4.9
avg, IF

5.48
L-index

#	Paper	IF	Citations
110	Blueshift of near band edge emission in Mg doped ZnO thin films and aging. <i>Journal of Applied Physics</i> , 2004 , 95, 4772-4776	2.5	258
109	The 2016 oxide electronic materials and oxide interfaces roadmap. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 433001	3	204
108	Band gap energy of pure and Al-doped ZnO thin films. <i>Journal of the European Ceramic Society</i> , 2004 , 24, 1869-1872	6	195
107	The role of oxygen vacancies in epitaxial-deposited ZnO thin films. <i>Journal of Applied Physics</i> , 2007 , 101, 053106	2.5	161
106	Aging effect and origin of deep-level emission in ZnO thin film deposited by pulsed laser deposition. <i>Applied Physics Letters</i> , 2005 , 86, 221910	3.4	152
105	Fully solution-processed low-voltage aqueous In ₂ O ₃ thin-film transistors using an ultrathin ZrO(x) dielectric. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 17364-9	9.5	144
104	Low-Temperature, Nontoxic Water-Induced Metal-Oxide Thin Films and Their Application in Thin-Film Transistors. <i>Advanced Functional Materials</i> , 2015 , 25, 2564-2572	15.6	133
103	Water-Induced Scandium Oxide Dielectric for Low-Operating Voltage n- and p-Type Metal-Oxide Thin-Film Transistors. <i>Advanced Functional Materials</i> , 2015 , 25, 7180-7188	15.6	121
102	Solution Combustion Synthesis: Low-Temperature Processing for p-Type Cu:NiO Thin Films for Transparent Electronics. <i>Advanced Materials</i> , 2017 , 29, 1701599	24	113
101	Hole mobility modulation of solution-processed nickel oxide thin-film transistor based on high-k dielectric. <i>Applied Physics Letters</i> , 2016 , 108, 233506	3.4	95
100	Transparent conductive ZnO thin films on glass substrates deposited by pulsed laser deposition. <i>Journal of Crystal Growth</i> , 2005 , 277, 284-292	1.6	94
99	Substrate effects of ZnO thin films prepared by PLD technique. <i>Journal of the European Ceramic Society</i> , 2004 , 24, 1015-1018	6	91
98	Structural, electrical, and optical properties of transparent gallium oxide thin films grown by plasma-enhanced atomic layer deposition. <i>Journal of Applied Physics</i> , 2005 , 98, 023504	2.5	91
97	High-performance fully amorphous bilayer metal-oxide thin film transistors using ultra-thin solution-processed ZrO _x dielectric. <i>Applied Physics Letters</i> , 2014 , 105, 113509	3.4	87
96	Stokes shift, blue shift and red shift of ZnO-based thin films deposited by pulsed-laser deposition. <i>Journal of Crystal Growth</i> , 2006 , 291, 328-333	1.6	79
95	Advances of 2D bismuth in energy sciences. <i>Chemical Society Reviews</i> , 2020 , 49, 263-285	58.5	78
94	Epitaxial growth and properties of Ga-doped ZnO films grown by pulsed laser deposition. <i>Journal of Crystal Growth</i> , 2003 , 259, 130-136	1.6	77

93	Low-temperature, nontoxic water-induced high-k zirconium oxide dielectrics for low-voltage, high-performance oxide thin-film transistors. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 10715-10721	7.1	61
92	Low-temperature fabrication of high performance indium oxide thin film transistors. <i>RSC Advances</i> , 2015 , 5, 37807-37813	3.7	60
91	High-mobility p-type NiOx thin-film transistors processed at low temperatures with Al ₂ O ₃ high-k dielectric. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 9438-9444	7.1	60
90	Photochemical Activation of Electrospun InO Nanofibers for High-Performance Electronic Devices. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 10805-10812	9.5	56
89	Redox Chloride Elimination Reaction: Facile Solution Route for Indium-Free, Low-Voltage, and High-Performance Transistors. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600513	6.4	55
88	In situ one-step synthesis of p-type copper oxide for low-temperature, solution-processed thin-film transistors. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 2524-2530	7.1	55
87	High-piezocatalytic performance of eco-friendly (Bi _{1/2} Na _{1/2})TiO ₃ -based nanofibers by electrospinning. <i>Nano Energy</i> , 2019 , 65, 104024	17.1	55
86	Eco-friendly water-induced aluminum oxide dielectrics and their application in a hybrid metal oxide/polymer TFT. <i>RSC Advances</i> , 2015 , 5, 86606-86613	3.7	49
85	Graphene nanodots-encaged porous gold electrode fabricated via ion beam sputtering deposition for electrochemical analysis of heavy metal ions. <i>Sensors and Actuators B: Chemical</i> , 2015 , 206, 592-600	8.5	49
84	Solution-processed p-type copper oxide thin-film transistors fabricated by using a one-step vacuum annealing technique. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 9509-9513	7.1	46
83	Solution-processed ytterbium oxide dielectrics for low-voltage thin-film transistors and inverters. <i>Ceramics International</i> , 2017 , 43, 15194-15200	5.1	45
82	Photoluminescence of ZnO:Ga Thin Films Fabricated by Pulsed Laser Deposition Technique. <i>Journal of Electroceramics</i> , 2004 , 13, 183-187	1.5	45
81	Solution-processed high-k magnesium oxide dielectrics for low-voltage oxide thin-film transistors. <i>Applied Physics Letters</i> , 2016 , 109, 183508	3.4	42
80	Synthesizing BaTiO Nanostructures to Explore Morphological Influence, Kinetics, and Mechanism of Piezocatalytic Dye Degradation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 17443-17451	9.5	41
79	Solution-processed ternary p-type CuCrO ₂ semiconductor thin films and their application in transistors. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 1393-1398	7.1	41
78	One-step synthesis of graphene quantum dots from defective CVD graphene and their application in IGZO UV thin film phototransistor. <i>Carbon</i> , 2016 , 100, 201-207	10.4	39
77	A water-induced high-k yttrium oxide dielectric for fully-solution-processed oxide thin-film transistors. <i>Current Applied Physics</i> , 2015 , 15, S75-S81	2.6	38
76	Solution-Processed Alkaline Lithium Oxide Dielectrics for Applications in n- and p-Type Thin-Film Transistors. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600140	6.4	38

75	Eco-friendly, solution-processed In-W-O thin films and their applications in low-voltage, high-performance transistors. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 4478-4484	7.1	38
74	Solution-Processed SrOx-Gated Oxide Thin-Film Transistors and Inverters. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 4137-4143	2.9	36
73	Electrospun p-Type Nickel Oxide Semiconducting Nanowires for Low-Voltage Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 25841-25849	9.5	35
72	Optical properties of As doped ZnO thin films prepared by pulsed laser deposition technique. <i>Journal of the European Ceramic Society</i> , 2004 , 24, 1861-1864	6	32
71	Solution-processed hafnium oxide dielectric thin films for thin-film transistors applications. <i>Ceramics International</i> , 2015 , 41, 13218-13223	5.1	31
70	Annealing Dependence of Solution-Processed Ultra-Thin ZrOx Films for Gate Dielectric Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 2185-91	1.3	31
69	Room-temperature fabrication of ultra-thin ZrOx dielectric for high-performance InTiZnO thin-film transistors. <i>Current Applied Physics</i> , 2014 , 14, S39-S43	2.6	29
68	Nature-Inspired Capillary-Driven Welding Process for Boosting Metal-Oxide Nanofiber Electronics. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 20703-20711	9.5	29
67	Electrospun p-type CuO nanofibers for low-voltage field-effect transistors. <i>Applied Physics Letters</i> , 2017 , 111, 143501	3.4	27
66	Electrospun ZnSnO Nanofibers for Neuromorphic Transistors With Ultralow Energy Consumption. <i>IEEE Electron Device Letters</i> , 2019 , 40, 1776-1779	4.4	27
65	Aging and Annealing Effects of ZnO Thin Films on GaAs Substrates Deposited by Pulsed Laser Deposition. <i>Journal of Electroceramics</i> , 2004 , 13, 195-200	1.5	27
64	Solution-Processed, Electrolyte-Gated InO Flexible Synaptic Transistors for Brain-Inspired Neuromorphic Applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 1061-1068	9.5	27
63	Solution-processed yttrium oxide dielectric for high-performance IZO thin-film transistors. <i>Ceramics International</i> , 2015 , 41, S337-S343	5.1	25
62	Electrical properties of Ga2O3-based dielectric thin films prepared by plasma enhanced atomic layer deposition (PEALD). <i>Journal of Electroceramics</i> , 2006 , 17, 145-149	1.5	25
61	ZnO Nanofiber Thin-Film Transistors with Low-Operating Voltages. <i>Advanced Electronic Materials</i> , 2018 , 4, 1700336	6.4	24
60	High-performance field-effect transistors based on gadolinium doped indium oxide nanofibers and their application in logic gate. <i>Applied Physics Letters</i> , 2018 , 112, 213501	3.4	24
59	Graphene quantum dots directly generated from graphite via magnetron sputtering and the application in thin-film transistors. <i>Carbon</i> , 2015 , 88, 225-232	10.4	23
58	Graphene nanodots encaged 3-D gold substrate as enzyme loading platform for the fabrication of high performance biosensors. <i>Sensors and Actuators B: Chemical</i> , 2015 , 220, 1186-1195	8.5	23

57	The annealing effects on the properties of solution-processed alumina thin film and its application in TFTs. <i>Ceramics International</i> , 2015 , 41, S349-S355	5.1	22
56	Low-voltage and high-performance field-effect transistors based on ZnSnO nanofibers with a ZrO dielectric. <i>Nanoscale</i> , 2018 , 10, 14712-14718	7.7	21
55	Growth Temperature Dependence of TiO ₂ Thin Films Prepared by Using Plasma-Enhanced Atomic Layer Deposition Method. <i>Journal of the Korean Physical Society</i> , 2007 , 50, 1827	0.6	20
54	Welded silver nanowire networks as high-performance transparent conductive electrodes: Welding techniques and device applications. <i>Applied Materials Today</i> , 2020 , 20, 100634	6.6	19
53	Improved performance of InGaZnO thin-film transistors with Ta ₂ O ₅ /Al ₂ O ₃ stack deposited using pulsed laser deposition. <i>Current Applied Physics</i> , 2014 , 14, S2-S6	2.6	19
52	GROWTH TEMPERATURE DEPENDENCE OF Ga ₂ O ₃ THIN FILMS DEPOSITED BY PLASMA ENHANCED ATOMIC LAYER DEPOSITION. <i>Integrated Ferroelectrics</i> , 2007 , 94, 11-20	0.8	18
51	Ga ₂ O ₃ THIN FILM DEPOSITED BY ATOMIC LAYER DEPOSITION WITH HIGH PLASMA POWER. <i>Integrated Ferroelectrics</i> , 2006 , 80, 197-206	0.8	18
50	High-Performance Indium Oxide Thin-Film Transistors With Aluminum Oxide Passivation. <i>IEEE Electron Device Letters</i> , 2019 , 40, 1949-1952	4.4	16
49	Sol-Gel Processed p-Type CuAlO ₂ Semiconductor Thin Films and the Integration in Transistors. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 1458-1463	2.9	16
48	The photovoltaic and photoconductive photodetector based on GeSe/2D semiconductor van der Waals heterostructure. <i>Applied Physics Letters</i> , 2020 , 116, 141101	3.4	16
47	Inhibition of minority transport for elevating the thermoelectric figure of merit of CuO/BiSbTe nanocomposites at high temperatures. <i>RSC Advances</i> , 2016 , 6, 112050-112056	3.7	16
46	Annealing Effects of ZnO Thin Films Deposited on Si (100) by Using Pulsed Laser Deposition. <i>Journal of the Korean Physical Society</i> , 2009 , 54, 916-920	0.6	16
45	Self-Welding and Low-Temperature Formation of Metal Oxide Nanofiber Networks and its Application to Electronic Devices. <i>IEEE Electron Device Letters</i> , 2020 , 41, 62-65	4.4	15
44	Optical properties of antimony-implanted ZnO epilayers. <i>Surface and Coatings Technology</i> , 2007 , 201, 6797-6799	4.4	14
43	Boron and nitrogen co-doped ZnO thin films for opto-electronic applications. <i>Ceramics International</i> , 2008 , 34, 1011-1015	5.1	14
42	High thermoelectric efficiency of p-type BiSbTe-based composites with CuGaTe ₂ nanoinclusions. <i>Scripta Materialia</i> , 2019 , 172, 88-92	5.6	13
41	High performance electronic devices based on nanofibers via a crosslinking welding process. <i>Nanoscale</i> , 2018 , 10, 19427-19434	7.7	13
40	Studies of ZnO Thin Films On Sapphire (0001) Substrates Deposited by Pulsed Laser Deposition. <i>Journal of Electroceramics</i> , 2004 , 13, 189-194	1.5	12

39	Electronic Devices Based on Oxide Thin Films Fabricated by Fiber-to-Film Process. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 18057-18065	9.5	11
38	Low-Temperature Fabrication of Nontoxic Indium Oxide Nanofibers and Their Application in Field-Effect Transistors. <i>IEEE Electron Device Letters</i> , 2020 , 41, 413-416	4.4	11
37	Direct transfer of graphene and application in low-voltage hybrid transistors. <i>RSC Advances</i> , 2017 , 7, 2172-2179	3.7	10
36	Draw Spinning of Wafer-Scale Oxide Fibers for Electronic Devices. <i>Advanced Electronic Materials</i> , 2018 , 4, 1700644	6.4	10
35	Oxygen pressure dependence of Ti-doped In-Zn-O thin film transistors. <i>Journal of Electroceramics</i> , 2014 , 33, 31-36	1.5	10
34	Fast electrochromic switching of electrospun Cu-doped NiO nanofibers. <i>Scripta Materialia</i> , 2020 , 178, 472-476	5.6	10
33	Advanced tape-exfoliated method for preparing large-area 2D monolayers: a review. <i>2D Materials</i> , 2021 , 8, 032002	5.9	9
32	Synthesis, surface properties and optical characteristics of CuV ₂ O ₆ nanofibers. <i>Journal of Alloys and Compounds</i> , 2016 , 672, 229-237	5.7	8
31	Improved flexible ZnO/CsPbBr ₃ /Graphene UV photodetectors with interface optimization by solution process. <i>Materials Research Bulletin</i> , 2020 , 130, 110956	5.1	7
30	AgV ₇ O ₁₈ : A new silver vanadate semiconductor with photodegradation ability on dyes under visible-light irradiation. <i>Materials Letters</i> , 2016 , 169, 82-85	3.3	7
29	Fabrication of ultrathin In ₂ O ₃ hollow fibers for UV light sensing. <i>Physica Scripta</i> , 2014 , 89, 115808	2.6	7
28	Structural, electrical, and optical properties of Na-doped ZnO thin films deposited by pulsed laser deposition. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 5203-7	1.3	7
27	A high performance UWB MIMO antenna with defected ground structure and U-shape branches. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2021 , 31, e22270	1.5	7
26	Nanometer-film analysis by the laser-induced breakdown spectroscopy method: the effects of laser focus to sample distance. <i>Applied Optics</i> , 2015 , 54, 4812-9	0.2	6
25	Achieving high power factor of p-type BiSbTe thermoelectric materials via adjusting hot-pressing temperature. <i>Intermetallics</i> , 2018 , 93, 338-342	3.5	6
24	Three types of dissociated misfit dislocations in epitaxial Ba _{0.3} Sr _{0.7} TiO ₃ thin films grown on (001) LaAlO ₃ . <i>Journal of Applied Physics</i> , 2009 , 106, 113532	2.5	5
23	NANOMIXED TiO ₂ -Ga ₂ O ₃ THIN FILMS GROWN BY PLASMA ENHANCED ATOMIC LAYER DEPOSITION (PEALD) METHOD. <i>Integrated Ferroelectrics</i> , 2006 , 85, 155-164	0.8	5
22	The role of oxygen in determining the electrical performance of ZnSnO nanofiber field-effect transistors. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 015109	3	5

21	Performance Enhancement of Field-Effect Transistors Based on In ₂ O ₃ Nanofiber Networks by Plasma Treatment. <i>IEEE Electron Device Letters</i> , 2021 , 42, 176-179	4.4	5
20	Enhancement-mode field-effect transistors based on Ti-doped In ₂ O ₃ nanowires fabricated by electrospinning. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 225102	3	4
19	Low operating voltage InGaZnO thin-film transistors based on Al ₂ O ₃ high-k dielectrics fabricated using pulsed laser deposition. <i>Journal of the Korean Physical Society</i> , 2014 , 64, 1437-1440	0.6	3
18	TRANSPARENT TITANIUM DIOXIDE THIN FILM DEPOSITED BY PLASMA-ENHANCED ATOMIC LAYER DEPOSITION. <i>Integrated Ferroelectrics</i> , 2006 , 81, 239-248	0.8	3
17	HEXAGONAL ZINC OXIDE THIN FILMS ON CUBIC MGO (100) SUBSTRATES DEPOSITED BY PULSED LASER DEPOSITION. <i>Integrated Ferroelectrics</i> , 2006 , 78, 181-190	0.8	3
16	Beam Splitter and Deflector in Two-Dimensional Photonic Crystals. <i>Guangxue Xuebao/Acta Optica Sinica</i> , 2009 , 29, 818-821	0.8	3
15	Field-Effect Transistors Based on Welded SnGaO Nanowire Networks. <i>IEEE Electron Device Letters</i> , 2021 , 42, 58-61	4.4	3
14	Solution-Processed High-Performance p-Type Perovskite NdAlO ₃ Thin Films for Transparent Electronics. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901110	6.4	2
13	STRUCTURAL, ELECTRICAL, AND OPTICAL PROPERTIES OF GERMANIUM-DOPED ZnO THIN FILMS DEPOSITED BY PULSED LASER DEPOSITION TECHNIQUE. <i>Integrated Ferroelectrics</i> , 2008 , 98, 199-207	0.8	2
12	Nanoscale phenomena of gallium-doped ZnO thin films on sapphire substrates. <i>Journal of Electroceramics</i> , 2006 , 17, 287-292	1.5	2
11	Cladded Surface-Plasmon-Enhanced BP Photodetector Based on the Damage-Free Metal/Semiconductor Interface. <i>IEEE Transactions on Electron Devices</i> , 2020 , 1-4	2.9	2
10	UV-Treated ZrO ₂ Passivation for Transparent and High-Stability In ₂ O ₃ Thin Film Transistor. <i>IEEE Transactions on Electron Devices</i> , 2022 , 1-5	2.9	2
9	Channel layer thickness dependence of In-Ti-Zn-O thin-film transistors fabricated using pulsed laser deposition. <i>Journal of the Korean Physical Society</i> , 2014 , 64, 1514-1518	0.6	1
8	Thin-Film Transistors: ZnO Nanofiber Thin-Film Transistors with Low-Operating Voltages (Adv. Electron. Mater. 1/2018). <i>Advanced Electronic Materials</i> , 2018 , 4, 1870007	6.4	
7	P-5.7: Low-temperature, nontoxic indium oxide nanofibers and their application in field-effect transistors. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 738-738	0.5	
6	P-5.6: High performance solution-processed p-type NdAlO ₃ semiconductor thin films and their application in transistors. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 737-737	0.5	
5	CHARACTERIZATIONS OF GALLIUM AND ARSENIC CO-DOPED ZnO THIN FILMS DEPOSITED BY PULSED LASER DEPOSITION TECHNIQUE. <i>Integrated Ferroelectrics</i> , 2007 , 90, 30-41	0.8	
4	P-5.5: High performance indium oxide thin-film transistors with aluminum oxide passivation. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 736-736	0.5	

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| 3 | P-5.8: High-performance field effect transistor based on welded In ₂ O ₃ nanobelts with low temperature process. <i>Digest of Technical Papers SID International Symposium, 2019, 50, 739-739</i> | 0.5 |
| 2 | P-5.9: Low temperature, solution-processed In ₂ O ₃ synaptic transistors for brain-inspired neuromorphic applications. <i>Digest of Technical Papers SID International Symposium, 2019, 50, 740-740</i> | 0.5 |
| 1 | P-1.5: High-performance indium oxide thin-film transistors with UV-treated zirconium oxide passivation layer. <i>Digest of Technical Papers SID International Symposium, 2021, 52, 694-694</i> | 0.5 |