

Jiwen Xu

List of Publications by Year in descending order

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87
papers

1,086
citations

430874

18
h-index

501196

28
g-index

87
all docs

87
docs citations

87
times ranked

892
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly enhanced discharged energy density and superior cyclic stability of Bi _{0.5} Na _{0.5} TiO ₃ -based ceramics by introducing Sr _{0.7} Ca _{0.3} TiO ₃ component. <i>Materials Chemistry and Physics</i> , 2022, 276, 125402.	4.0	10
2	Effect of Ho Addition on the Optical and Electrical Properties of 0.98KNN-0.02SYT Ceramics. <i>Journal of Electronic Materials</i> , 2022, 51, 831-837.	2.2	8
3	Enhanced energy storage density of antiferroelectric AgNbO ₃ -based ceramics by Bi/Ta modification at A/B sites. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 3081-3090.	2.2	4
4	Effects of Er ³⁺ doping on the structure and electro-optical properties of 0.94(K _{0.5} Na _{0.5})NbO ₃ â€“0.06Sr(Zn _{1/3} Nb _{2/3})O ₃ ceramics. <i>Bulletin of Materials Science</i> , 2022, 45, 1.	1.7	3
5	Enhanced Visible Photocatalytic Hydrogen Evolution of KN-Based Semiconducting Ferroelectrics via Band-Gap Engineering and High-Field Poling. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 8916-8930.	8.0	18
6	Visible-light photocatalytic hydrogen production in a narrow-bandgap semiconducting La/Ni-modified KNbO ₃ ferroelectric and further enhancement via high-field poling. <i>Journal of Materials Chemistry A</i> , 2022, 10, 7238-7250.	10.3	18
7	Giant electric field-induced strain with low hysteresis in Bi _{0.5} Na _{0.5} TiO ₃ -xSr _{0.7} Ca _{0.3} TiO ₃ lead-free piezoceramics. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	2.3	3
8	Achieving ultrahigh discharge energy and power density in niobate-based glass ceramics via A-site substitution modulation during crystallization. <i>Journal of Materials Chemistry A</i> , 2022, 10, 11535-11541.	10.3	13
9	Probing the in-time piezoelectric responses and depolarization behaviors related to ferroelectric-relaxor transition in BiFeO ₃ â€“BaTiO ₃ ceramics by in-situ process. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 1197-1203.	2.2	8
10	Regulating the Structural, Transmittance, Ferroelectric, and Energy Storage Properties of K _{0.5} Na _{0.5} NbO ₃ Ceramics Using Sr(Yb _{0.5} Nb _{0.5})O ₃ . <i>Journal of Electronic Materials</i> , 2021, 50, 968-977.	2.2	14
11	Crystal structures and electrical properties of Sr/Fe-modified KNbO ₃ ferroelectric semiconductors with narrow bandgap. <i>Journal of the American Ceramic Society</i> , 2021, 104, 2181-2190.	3.8	10
12	Significantly enhanced energy harvesting based on Ba(Ti,Sn)O ₃ and P(VDF-CTFE) composite by piezoelectric and triboelectric hybrid. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 2422-2431.	2.2	2
13	Giant Enhancement of External Quantum Efficiency in Near-UV Organic Light-Emitting Diodes via Device Aging and Impedance Spectroscopy Analysis. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2100041.	2.4	3
14	High piezoelectric properties of 0.82(Bi _{0.5} Na _{0.5})TiO ₃ â€“0.18(Bi _{0.5} K _{0.5})TiO ₃ lead-free ceramics modified by (Mn _{1/3} Nb _{2/3}) ₄₊ complex ions. <i>Bulletin of Materials Science</i> , 2021, 44, 1.	1.7	2
15	Enhancement of the up-conversion luminescence performance of Ho ³⁺ -doped 0.825K _{0.5} Na _{0.5} NbO ₃ -0.175Sr(Yb _{0.5} Nb _{0.5})O ₃ transparent ceramics by polarization. <i>Bulletin of Materials Science</i> , 2021, 44, 1.	1.7	11
16	The (1-x)BiFeO ₃ â€“xBaTiO ₃ â€“Bi(Zn _{0.5} Ti _{0.5})O ₃ high-temperature lead-free piezoelectric ceramics with strong piezoelectric properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 19713-19723.	2.2	4
17	Nonergodicâ€“ergodic relaxor transition and enhanced piezoelectric properties in B-site complex ions substitution 0.93Bi _{0.5} Na _{0.5} TiO ₃ â€“0.07BaTiO ₃ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 24308-24319.	2.2	4
18	High-field polarization boosting visible-light photocatalytic H ₂ evolution of narrow-bandgap semiconducting (1-x)KNbO ₃ â€“xBa(Ni _{1/2} Nb _{1/2})O ₃ ferroelectric ceramics. <i>New Journal of Chemistry</i> , 2021, 45, 20296-20308.	2.8	1

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19	Fabrication, tunable fluorescence emission and energy transfer of Tm^{3+}/Dy^{3+} co-activated $P_{2}O_{5}$ - $B_{2}O_{3}$ - SrO - $K_{2}O$ glasses. <i>Journal of the American Ceramic Society</i> , 2020, 103, 1057-1066.	3.8	27
20	Strong piezoelectricity of $Li_{2}CO_{3}$ -doped $BiFeO_{3}$ - $BaTiO_{3}$ - $Bi(Zn_{0.5}Ti_{0.5})O_{3}$ lead-free piezoelectric ceramics with high Curie temperature and high temperature stability. <i>Journal of Alloys and Compounds</i> , 2020, 819, 153058.	5.5	28
21	Tailoring the Structure, Energy Storage, Strain, and Dielectric Properties of $Bi_{0.5}(Na_{0.82}K_{0.18})_{0.5}TiO_{3}$ Ceramics by $(Fe_{1/4}Sc_{1/4}Nb_{1/2})_{4+}$ Multiple Complex Ions. <i>Frontiers in Materials</i> , 2020, 7, .	2.4	3
22	Optical and electrical properties of ferroelectric $BaBi_{0.5-0.5}Ag_{0.05-0.5}Na_{0.45}Ti_{1-Ni_{0.5}Nb_{0.5}O_{3}}$ semiconductor ceramics. <i>Materials Letters</i> , 2020, 268, 127627.	2.6	5
23	Relaxor/antiferroelectric composites: a solution to achieve high energy storage performance in lead-free dielectric ceramics. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5681-5691.	5.5	75
24	Large electrostrain in low-temperature sintered NBT - BT - $0.025FN$ incipient piezoceramics. <i>Journal of the American Ceramic Society</i> , 2020, 103, 3739-3747.	3.8	36
25	High energy storage efficiency and high electrostrictive coefficients in BNT - BS - xBT ferroelectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 5546-5553.	2.2	22
26	Antiferroelectric behavior and giant strain in $BNKT$ ceramics complex $Cs_{2}Nb_{4}O_{11}$ tungsten bronze phase. <i>Ceramics International</i> , 2020, 46, 10067-10074.	4.8	7
27	Complex impedance spectroscopy of perovskite microwave dielectric ceramics with high dielectric constant. <i>Journal of the American Ceramic Society</i> , 2019, 102, 1852-1865.	3.8	23
28	Effects of Mg Doping Concentration on Resistive Switching Behavior and Properties of $SrTi_{1-y}Mg_{y}O_{3}$ Films. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2019, 34, 888-892.	1.0	1
29	Resistance Switching Behaviour and Properties of $Ag/La_{0.5}Mg_{0.5}MnO_{3}/p^{+}$ -Si with Different Thicknesses of Resistance Films Fabricated through Sol-Gel Method. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2019, 34, 568-571.	1.0	0
30	The effect of artificial stress on structure, electrical and mechanical properties of Sr^{2+} doped BNT - BT lead-free piezoceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 21398-21405.	2.2	6
31	Low electric field-induced strain and large improvement in energy density of $(Lu_{0.5}Nb_{0.5})_{4+}$ complex-ions doped BNT - BT ceramics. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	31
32	Facile synthesis of solution-processed MoS_{2} nanosheets and their application in high-performance ultraviolet organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2019, 7, 926-936.	5.5	38
33	Effect of Sintering Time on Structure and Properties in CuO -doping KNN - LS - BF Piezoelectric Ceramics. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2019, 34, 308-311.	1.0	17
34	Influence of Ni doping on the structural, ferroelectric, magnetic and optical properties of $\{Bi\}_{0.85}\{Nd\}_{0.15}\{Fe\}_{1-x}\{Ni\}_{x}\{O\}_{3}$ thin films. <i>Bulletin of Materials Science</i> , 2019, 42, 1.	1.7	3
35	The Modification of $(Nd_{0.5}Ta_{0.5})_{4+}$ Complex-Ions on Structure and Electrical Properties of $Bi_{0.5}Na_{0.5}TiO_{3}$ - $BaTiO_{3}$ Ceramics. <i>Materials Research</i> , 2019, 22, .	1.3	4
36	Wide-range thermometry and up-conversion luminescence of $Ca_{5}(PO_{4})_{3}F:Yb^{3+}/Er^{3+}$ transparent glass ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 5718-5725.	2.2	21

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37	Dielectric behaviors and relaxor characteristics in Bi _{0.5} Na _{0.5} TiO ₃ -BaTiO ₃ ceramics. Journal of Advanced Dielectrics, 2019, 09, 1950038.	2.4	4
38	Microwave Dielectric Properties of Na ₅ RE(MoO ₄) ₄ (RE=La, Gd, Dy, Er) Ceramics with a Low Sintering Temperature. Journal of Electronic Materials, 2019, 48, 656-661.	2.2	5
39	Yb ³⁺ /Tb ³⁺ /Ho ³⁺ : phosphate nanophase embedded glass ceramics: enhanced upconversion emission and temperature sensing behavior. Journal of Materials Science: Materials in Electronics, 2019, 30, 778-785.	2.2	10
40	The evolution of phase structure, dielectric, strain, and energy storage density of complex-ions (Sr _{1/3} Nb _{2/3}) ₄₊ doped 0.82Bi _{0.5} Na _{0.5} TiO ₃ -0.18Bi _{0.5} K _{0.5} TiO ₃ ceramics. Journal of Physics and Chemistry of Solids, 2019, 126, 287-293.	4.0	21
41	Tunable hole injection of solution-processed polymeric carbon nitride towards efficient organic light-emitting diode. Applied Physics Letters, 2018, 112, .	3.3	18
42	Fabrication and electro-optical properties of CuAl _{0.8} O ₂ /Zn _{0.95} Al _{0.05} O heterojunction films. Journal of Materials Science: Materials in Electronics, 2018, 29, 7586-7591.	2.2	1
43	Structure, dielectric, ferroelectric, and field-induced strain response properties of (Mg _{1/3} Nb _{2/3}) ₄₊ complex-ion modified Bi _{0.5} (Na _{0.82} K _{0.18}) _{0.5} TiO ₃ lead-free ceramics. Journal of Alloys and Compounds, 2018, 743, 73-82.	5.5	26
44	Solution-Processed Composite Interfacial Layer of MoO _x -Doped Graphene Oxide for Robust Hole Injection in Organic Light-Emitting Diode. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1700434.	2.4	14
45	Comparative studies on structure, dielectric, strain and energy storage properties of (Bi _{0.5} Na _{0.5}) _{0.94} Ba _{0.06} Ti _{0.965} (Mg _{1/3} Nb _{2/3}) _{0.035} O ₃ lead-free ceramics prepared by traditional and two-step sintering method. Journal of Materials Science: Materials in Electronics, 2018, 29, 5349-5355.	2.2	7
46	Remarkable improvement of ferroelectric properties and leakage current in BiFeO ₃ thin films by nd modification. Journal Wuhan University of Technology, Materials Science Edition, 2018, 33, 64-67.	1.0	6
47	Aqueous Solution-Processed Vanadium Oxide for Efficient Hole Injection Interfacial Layer in Organic Light-Emitting Diode. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800047.	1.8	6
48	Ferroelectric-quasiferroelectric-ergodic relaxor transition and multifunctional electrical properties in Bi _{0.5} Na _{0.5} TiO ₃ -based ceramics. Journal of the American Ceramic Society, 2018, 101, 1554-1565.	3.8	51
49	Microwave dielectric properties of Sr _{0.7} Ce _{0.2} TiO ₃ “Sr(Mg _{1/3} Nb _{2/3})O ₃ ceramics. Journal of Materials Science: Materials in Electronics, 2018, 29, 2668-2675.	2.2	3
50	Coexistence of Bipolar and Unipolar Resistive Switching Behavior in Ag/ZnMn ₂ O ₄ /p+-Si Device. Journal Wuhan University of Technology, Materials Science Edition, 2018, 33, 1433-1436.	1.0	1
51	Resistance-switching properties of Bi-doped SrTiO ₃ films for non-volatile memory applications with different device structures. Bulletin of Materials Science, 2018, 41, 1.	1.7	3
52	Excellent optical, dielectric, and ferroelectric properties of Sr(In _{0.5} Nb _{0.5})O ₃ modified K _{0.5} Na _{0.5} NbO ₃ lead-free transparent ceramics. Journal of Materials Science: Materials in Electronics, 2018, 29, 19123-19129.	2.2	15
53	Rectifying resistance-switching behaviour of Ag/SBTO/STMO/ p + -Si heterostructure films. Bulletin of Materials Science, 2018, 41, 1.	1.7	0
54	High-energy storage and temperature stable dielectrics properties of lead-free BiScO ₃ -BaTiO ₃ (Bi _{0.5} Na _{0.5})TiO ₃ ceramics. IET Nanodielectrics, 2018, 1, 143-148.	4.1	2

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55	Luminescent properties and energy transfer of Tm ³⁺ /Dy ³⁺ co-doped oxyfluoride borate glasses for white LEDs. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 16041-16049.	2.2	18
56	Microstructures and microwave dielectric properties of (Ba ^{1-x} Sr ^x) ₄ (Sm _{0.4} Nd _{0.6}) _{28/3} Ti ₁₈ O ₅₄ solid solutions. <i>Journal of Advanced Ceramics</i> , 2017, 6, 50-58.	17.4	16
57	Resistive switching behavior of Ag/Mg _{0.2} Zn _{0.8} O/ZnMn ₂ O ₄ /p+-Si heterostructure devices for nonvolatile memory applications. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2017, 32, 29-32.	1.0	6
58	Effect of domains configuration on crystal structure in ferroelectric ceramics as revealed by XRD and dielectric spectrum. <i>Bulletin of Materials Science</i> , 2017, 40, 1159-1163.	1.7	0
59	Fabrication and properties of Ag/Mg _{0.2} Zn _{0.8} O/La _{0.67} Ca _{0.33} MnO/p+-Si resistive switching heterostructure devices. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2017, 32, 547-551.	1.0	0
60	A new insight into structural complexity in ferroelectric ceramics. <i>Journal of Advanced Ceramics</i> , 2017, 6, 262-268.	17.4	6
61	Bipolar resistive switching behaviour in $\text{Mn}_{0.03}\text{Zn}_{0.97}\text{O}/\text{amorphous Mn}_{0.03}\text{Zn}_{0.97}\text{O}/\text{amorphous La}_{0.7}\text{Zn}_{0.3}\text{MnO}_3$ heterostructure films. <i>Bulletin of Materials Science</i> , 2017, 40, 1285-1289.	1.7	1
62	Effects of electrode on resistance switching properties of ZnMn ₂ O ₄ films deposited by magnetron sputtering. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016, 31, 1230-1234.	1.0	2
63	High piezoelectricity associated with crossover from nonergodicity to ergodicity in modified Bi _{0.5} Na _{0.5} TiO ₃ relaxor ferroelectrics. <i>Journal of Electroceramics</i> , 2016, 37, 23-28.	2.0	2
64	Improved ferroelectric and leakage properties of Bi _{3.15} Nd _{0.85} Ti ₃ O ₁₂ /BiFeO ₃ heterojunction thin films formed through sol-gel method. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 7501-7504.	2.2	1
65	Effect of poling on polarization alignment, dielectric behavior, and piezoelectricity development in polycrystalline BiFeO ₃ /BaTiO ₃ ceramics. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 52-59.	1.8	15
66	Low temperature synthesis of amorphous La _{0.7} Zn _{0.3} MnO ₃ films grown on p+-Si substrates and its resistive switching properties. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016, 31, 727-730.	1.0	2
67	Effects of Zn doping concentration on resistive switching characteristics in Ag/La ^{1-x} Zn ^x MnO ₃ /p+-Si devices. <i>Bulletin of Materials Science</i> , 2016, 39, 1665-1670.	1.7	2
68	Structure and properties of (1-x)[(K _{0.5} Na _{0.5})NbO ₃ -LiSbO ₃]-xBiFe _{0.8} Co _{0.2} O ₃ lead-free piezoelectric ceramics. <i>Bulletin of Materials Science</i> , 2016, 39, 743-747.	1.7	10
69	Effects of sintering temperature on structure and properties of 0.98[K _{0.5} Na _{0.5} NbO ₃ -LiSbO ₃ -BiFeO ₃]-0.02ZnO piezoelectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 2036-2041.	2.2	4
70	Influence of sintering temperature on structure and properties of V ₂ O ₅ -doping KNN-LS-BF piezoelectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 8217-8220.	2.2	9
71	Tailoring antiferroelectricity with high energy-storage properties in Bi _{0.5} Na _{0.5} TiO ₃ -BaTiO ₃ ceramics by modulating Bi/Na ratio. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 10810-10815.	2.2	34
72	Influence on structure and properties of CuO addition to KNN-LS-BF piezoelectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 5016-5019.	2.2	5

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73	High Piezoelectric Response in $(\text{Li}_{0.5}\text{Sm}_{0.5})_{2+}$ -Modified $0.93\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3$ - 0.07BaTiO_3 Near the Nonergodic \rightarrow Ergodic Relaxor \rightarrow Transition. <i>Journal of Electronic Materials</i> , 2016, 45, 2967-2973.	2.2	6
74	High energy storage property and breakdown strength of $\text{Bi}_{0.5}(\text{Na}_{0.82}\text{K}_{0.18})_{0.5}\text{TiO}_3$ ceramics modified by $(\text{Al}_{0.5}\text{Nb}_{0.5})_{4+}$ complex-ion. <i>Journal of Alloys and Compounds</i> , 2016, 666, 209-216.	5.5	75
75	High energy storage properties and dielectric behavior of $(\text{Bi}_{0.5}\text{Na}_{0.5})_{0.94}\text{Ba}_{0.06}\text{Ti}_{1-x}(\text{Al}_{0.5}\text{Nb}_{0.5})_x\text{O}_3$ lead-free ferroelectric ceramics. <i>Ceramics International</i> , 2016, 42, 2221-2226.	4.8	79
76	Resistance switching properties of $\text{Ag}/\text{ZnMn}_2\text{O}_4/\text{p-Si}$ fabricated by magnetron sputtering for resistance random access memory. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2015, 30, 1159-1162.	1.0	6
77	Effects of tin content on structure, properties, electrical repeatability, uniformity and stability of high sheet resistance ITO thin films for touch panels. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 6954-6960.	2.2	5
78	Effects of sintering temperature on structure and properties of $0.998[0.95(\text{K}_{0.5}\text{Na}_{0.5})\text{NbO}_3\rightarrow 0.05\text{LiSbO}_3]\rightarrow 0.002\text{BiFe}_{0.8}\text{Co}_{0.2}\text{O}_3$ piezoelectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 6129-6133.	2.2	6
79	Temperature stability of sodium-doped $\text{BiFeO}_3\rightarrow\text{BaTiO}_3$ piezoelectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 9336-9341.	2.2	15
80	Microstructure and Electrical Properties of $\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$ - LiSbO_3 - BiFeO_3 - $x\%$ molZnO Lead-Free Piezoelectric Ceramics. <i>Journal of Electronic Materials</i> , 2014, 43, 506-511.	2.2	6
81	Effects of CuO doping on the structure and properties lead-free KNN-LS piezoelectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 2469-2472.	2.2	16
82	Effects of Co doping on microstructure and properties of $(\text{K}_{0.5}\text{Na}_{0.5})\text{NbO}_3\rightarrow\text{LiSbO}_3\rightarrow\text{BiFe}(1\rightarrow x)\text{Co}_x\text{O}_3$ lead-free piezoelectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 1480-1484.	2.2	8
83	Effects of sintering temperature on dielectric and piezoelectric properties of KNN-LS-BF-0.4mol%CuO lead-free piezoelectric ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 1519-1522.	2.2	2
84	Effects of Sintering Temperature on Structure and Properties of $0.997(\text{KNN-LS-BF})$ - $0.003\text{V}_2\text{O}_5$ Lead-Free Piezoelectric Ceramics. <i>Journal of Electronic Materials</i> , 2013, 42, 458-462.	2.2	3
85	Microstructure and properties of Al-doped ZnO thin films by nonreactive DC magnetron sputtering at room temperature following rapid thermal annealing. <i>Journal of Materials Science: Materials in Electronics</i> , 2010, 21, 33-37.	2.2	12
86	Effects of annealing temperature and thickness on microstructure and properties of sol \rightarrow gel derived multilayer Al-doped ZnO films. <i>Journal of Materials Science: Materials in Electronics</i> , 2010, 21, 145-148.	2.2	19
87	Room temperature deposition and properties of ZnO:Al thin films by nonreactive DC magnetron sputtering. <i>Journal of Materials Science: Materials in Electronics</i> , 2008, 19, 1135-1139.	2.2	19