

# Chao-Nan Xu

## List of Publications by Year in descending order

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259  
papers

10,372  
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36303

51  
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42399

92  
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266  
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266  
docs citations

266  
times ranked

6283  
citing authors

#	ARTICLE	IF	CITATIONS
1	Grain size effects on gas sensitivity of porous SnO <sub>2</sub> -based elements. Sensors and Actuators B: Chemical, 1991, 3, 147-155.	7.8	1,299
2	Direct view of stress distribution in solid by mechanoluminescence. Applied Physics Letters, 1999, 74, 2414-2416.	3.3	480
3	Artificial skin to sense mechanical stress by visible light emission. Applied Physics Letters, 1999, 74, 1236-1238.	3.3	388
4	Electro-Mechano-Optical Conversions in Pr <sup>3+</sup> -Doped BaTiO <sub>3</sub> -CaTiO <sub>3</sub> Ceramics. Advanced Materials, 2005, 17, 1254-1258.	21.0	343
5	Trap-controlled mechanoluminescent materials. Progress in Materials Science, 2019, 103, 678-742.	32.8	213
6	Observation of Charge Stripes in Cupric Oxide. Physical Review Letters, 2000, 85, 5170-5173.	7.8	210
7	Dynamic visualization of stress distribution by mechanoluminescence image. Applied Physics Letters, 2000, 76, 179-181.	3.3	207
8	LiNbO <sub>3</sub> :Pr <sup>3+</sup> : A Multipiezo Material with Simultaneous Piezoelectricity and Sensitive Piezoluminescence. Advanced Materials, 2017, 29, 1606914.	21.0	177
9	Strong elasticoluminescence from monoclinic-structure SrAl <sub>2</sub> O <sub>4</sub> . Applied Physics Letters, 2004, 84, 3040-3042.	3.3	174
10	Giant negative thermal expansion in magnetic nanocrystals. Nature Nanotechnology, 2008, 3, 724-726.	31.5	140
11	Selective detection of NH <sub>3</sub> over NO in combustion exhausts by using Au and MoO <sub>3</sub> doubly promoted WO <sub>3</sub> element. Sensors and Actuators B: Chemical, 2000, 65, 163-165.	7.8	139
12	Large electrostriction near the solubility limit in BaTiO <sub>3</sub> -CaTiO <sub>3</sub> ceramics. Applied Physics Letters, 2005, 86, 022905.	3.3	138
13	An intense elastico-mechanoluminescence material CaZnOS:Mn <sup>2+</sup> for sensing and imaging multiple mechanical stresses. Optics Express, 2013, 21, 12976.	3.4	134
14	Enhancement of the light emissions from zinc oxide films by controlling the post-treatment ambient. Journal of Applied Physics, 2002, 91, 5640-5644.	2.5	127
15	Preparation and characteristics of highly triboluminescent ZnS film. Materials Research Bulletin, 1999, 34, 1491-1500.	5.2	114
16	Luminescence induced by elastic deformation of ZnS:Mn nanoparticles. Journal of Luminescence, 2010, 130, 442-450.	3.1	111
17	Coexistence of Long-Range Order and Spin Fluctuation in Geometrically Frustrated Clinoatacamite Cu <sub>2</sub> Cl(OH) <sub>3</sub> . Physical Review Letters, 2005, 95, 057201.	7.8	109
18	Influence of Calcining Temperature on Photoluminescence and Triboluminescence of Europium-Doped Strontium Aluminate Particles Prepared by Sol-Gel Process. Journal of Physical Chemistry B, 2003, 107, 3991-3995.	2.6	106

#	ARTICLE	IF	CITATIONS
19	Room temperature sensing of ozone by transparent p-type semiconductor CuAlO <sub>2</sub> . Applied Physics Letters, 2004, 85, 1728-1729.	3.3	103
20	Strong reddish-orange light emission from stress-activated Sr <sub>n+1</sub> Sn <sub>n</sub> O <sub>3n+1</sub> :Sm <sup>3+</sup> (n=1, 2, 3) with perovskite-related structures. Applied Physics Letters, 2012, 101, 091113.	3.3	102
21	Ultrasonic wave induced mechanoluminescence and its application for photocatalysis as ubiquitous light source. Catalysis Today, 2013, 201, 203-208.	4.4	102
22	Stabilization of SnO <sub>2</sub> ultrafine particles by additives. Journal of Materials Science, 1992, 27, 963-971.	3.7	101
23	Stress-stimulated luminescence from ZnAl <sub>2</sub> O <sub>4</sub> :Mn. Applied Physics Letters, 2001, 78, 1068-1070.	3.3	101
24	Finite-size effect on Néel temperature in antiferromagnetic nanoparticles. Physical Review B, 2005, 72, .	3.2	101
25	Intense visible light emission from Sr <sub>3</sub> Al <sub>2</sub> O <sub>6</sub> :Eu,Dy. Applied Physics Letters, 1998, 73, 3046-3048.	3.3	100
26	Unconventional magnetic transitions in the mineral clinoatacamite Cu <sub>2</sub> Cl(OH) <sub>3</sub> . Physical Review B, 2005, 71, .	3.2	97
27	Bright Upconversion Emission, Increased <i>T<sub>c</sub></i> , Enhanced Ferroelectric and Piezoelectric Properties in $\text{E}\text{-Doped CaBi}_4\text{Ti}_4\text{O}_{13}$ Multifunctional Ferroelectric Oxides. Journal of the American Ceramic Society, 2013, 96, 184-190.	3.8	93
28	Recovery phenomenon of mechanoluminescence from Ca <sub>2</sub> Al <sub>2</sub> SiO <sub>7</sub> :Ce by irradiation with ultraviolet light. Applied Physics Letters, 1999, 75, 2548-2550.	3.3	91
29	Mechanism of mechanical quenching and mechanoluminescence in phosphorescent CaZnOS:Cu. Light: Science and Applications, 2015, 4, e356-e356.	16.6	88
30	Correlation between Gas Sensitivity and Crystallite Size in Porous SnO <sub>2</sub> -Based Sensors. Chemistry Letters, 1990, 19, 441-444.	1.3	83
31	Influence of Eu, Dy co-doped strontium aluminate composition on mechanoluminescence intensity. Journal of Luminescence, 2002, 97, 13-18.	3.1	81
32	Enhancement of adhesion and triboluminescence of ZnS:Mn films by annealing technique. Thin Solid Films, 1999, 352, 273-277.	1.8	80
33	Origin of mechanoluminescence from Mn-activated ZnAl <sub>2</sub> O <sub>4</sub> : Triboelectricity-induced electroluminescence. Physical Review B, 2004, 69, .	3.2	80
34	Ultraviolet mechanoluminescence from SrAl <sub>2</sub> O <sub>4</sub> :Ce and SrAl <sub>2</sub> O <sub>4</sub> :Ce, Ho. Applied Physics Letters, 2007, 91, .	3.3	79
35	Electrical power generation characteristics of PZT piezoelectric ceramics. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1998, 45, 1065-1070.	3.0	77
36	Humidity sensors using manganese oxides. Sensors and Actuators B: Chemical, 1998, 46, 87-96.	7.8	76

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37	Mechanoluminescent light source for a fluorescent probe molecule. <i>Chemical Communications</i> , 2011, 47, 8034.	4.1	75
38	Microstructure, mechanical properties and oxidation behavior of powder compacts of the Nb <sup>5+</sup> -Si <sup>4+</sup> -B system prepared by spark plasma sintering. <i>Intermetallics</i> , 1999, 7, 1043-1048.	3.9	73
39	Sheet sensor using SrAl <sub>2</sub> O <sub>4</sub> :Eu mechanoluminescent material for visualizing inner crack of high-pressure hydrogen vessel. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 1333-1340.	7.1	72
40	Antiferromagnetic transitions in polymorphous minerals of the natural cuprates atacamite and botallackite Cu <sub>2</sub> Cl(OH) <sub>3</sub> . <i>Physical Review B</i> , 2005, 71, .	3.2	70
41	Scalable Elasticoluminescent Strain Sensor for Precise Dynamic Stress Imaging and Onsite Infrastructure Diagnosis. <i>Advanced Materials Technologies</i> , 2019, 4, 1800336.	5.8	70
42	Dynamic visualization of stress distribution on metal by mechanoluminescence images. <i>Journal of Visualization</i> , 2008, 11, 329-335.	1.8	68
43	Blue Light Emission from Stress-Activated CaYAl <sub>3</sub> O <sub>7</sub> :Eu. <i>Journal of the Electrochemical Society</i> , 2008, 155, J128.	2.9	68
44	Historical-Log Recording System for Crack Opening and Growth Based on Mechanoluminescent Flexible Sensor. <i>IEEE Sensors Journal</i> , 2013, 13, 3999-4004.	4.7	67
45	Ferroelectric Sr <sub>3</sub> Sn <sub>2</sub> O <sub>7</sub> :Nd <sup>3+</sup> : A New Multipiezo Material with Ultrasensitive and Sustainable Near-Infrared Piezoluminescence. <i>Advanced Materials</i> , 2020, 32, e1908083.	21.0	62
46	Er doped BaBi <sub>4</sub> Ti <sub>4</sub> O <sub>15</sub> multifunctional ferroelectrics: Up-conversion photoluminescence, dielectric and ferroelectric properties. <i>Journal of Alloys and Compounds</i> , 2013, 552, 463-468.	5.5	61
47	Statistical approach for optimizing sputtering conditions of highly oriented aluminum nitride thin films. <i>Thin Solid Films</i> , 1998, 315, 62-65.	1.8	53
48	Development of mechanoluminescent micro-particles Ca <sub>2</sub> MgSi <sub>2</sub> O <sub>7</sub> :Eu,Dy and their application in sensors. <i>Thin Solid Films</i> , 2009, 518, 610-613.	1.8	53
49	Intense visible light emission from stress-activated ZrO <sub>2</sub> :Ti. <i>Applied Physics Letters</i> , 2002, 81, 457-459.	3.3	52
50	Elastico-mechanoluminescence in CaZr(PO <sub>4</sub> ) <sub>2</sub> :Eu <sup>2+</sup> with multiple trap levels. <i>Optics Express</i> , 2013, 21, 13699.	3.4	52
51	Development of new elasticoluminescent material SrMg <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> :Eu. <i>Journal of Luminescence</i> , 2012, 132, 526-530.	3.1	51
52	Coexisting Ferromagnetic Order and Disorder in a Uniform System of Hydroxyhalide Co <sub>2</sub> (OH) <sub>3</sub> Cl. <i>Physical Review Letters</i> , 2006, 97, 247204.	7.8	50
53	Light emission and excitonic effect of boron nitride nanotubes observed by photoluminescent spectra. <i>Optical Materials</i> , 2007, 29, 1295-1298.	3.6	50
54	Stress-Induced Mechanoluminescence in SrCaMgSi <sub>2</sub> O <sub>7</sub> :Eu. <i>Electrochemical and Solid-State Letters</i> , 2007, 10, J129.	2.2	49

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55	Strong Mechanoluminescence from UV-Irradiated Spinel of ZnGa <sub>2</sub> O <sub>4</sub> :Mn and MgGa <sub>2</sub> O <sub>4</sub> :Mn. Japanese Journal of Applied Physics, 2000, 39, 6582-6586.	1.5	48
56	Observation of Elasticoluminescence from CaAl <sub>2</sub> Si <sub>2</sub> O <sub>8</sub> :Eu <sup>2+</sup> and Its Water Resistance Behavior. Journal of the Electrochemical Society, 2008, 155, J63.	2.9	47
57	Long-persistent luminescence in the near-infrared from Nd <sup>3+</sup> -doped Sr <sub>2</sub> SnO <sub>4</sub> for in vivo optical imaging. Japanese Journal of Applied Physics, 2014, 53, 092403.	1.5	47
58	Piezophotonics: From fundamentals and materials to applications. MRS Bulletin, 2018, 43, 965-969.	3.5	47
59	Strong Elastico-Mechanoluminescence in Diphase (Ba,Ca)TiO <sub>3</sub> :Pr <sup>3+</sup> with Self-Assembled Sandwich Architectures. Journal of the Electrochemical Society, 2010, 157, G269.	2.9	46
60	Visualization of stress distribution using mechanoluminescence from Sr <sub>3</sub> Al <sub>2</sub> O <sub>6</sub> :Eu and the nature of the luminescence mechanism. Philosophical Magazine Letters, 1999, 79, 735-740.	1.2	45
61	Purple photochromism in Sr <sub>2</sub> SnO <sub>4</sub> :Eu <sup>3+</sup> with layered perovskite-related structure. Applied Physics Letters, 2013, 102, .	3.3	43
62	Electroluminescent ceramics excited by low electrical field. Applied Physics Letters, 2004, 84, 5016-5018.	3.3	42
63	BLUE LIGHT EMISSION FROM STRESS-ACTIVATED SR <sub>2</sub> MgSi <sub>2</sub> O <sub>7</sub> :EU <sup>2.0</sup> International Journal of Modern Physics B, 2009, 23, 1028-1033.		42
64	Green Mechanoluminescence of Ca <sub>2</sub> MgSi <sub>2</sub> O <sub>7</sub> :Eu and Ca <sub>2</sub> MgSi <sub>2</sub> O <sub>7</sub> :Eu,Dy. Journal of the Electrochemical Society, 2008, 155, J55.	2.9	41
65	Detection of stress distribution using Ca <sub>2</sub> MgSi <sub>2</sub> O <sub>7</sub> :Eu,Dy microparticles. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 2872-2875.	2.7	41
66	Tailoring bandgap and trap distribution via Si or Ge substitution for Sn to improve mechanoluminescence in Sr <sub>3</sub> Sn <sub>2</sub> O <sub>7</sub> :Sm <sup>3+</sup> layered perovskite oxide. Acta Materialia, 2018, 145, 462-469.	7.9	40
67	Enhancement of Mechanoluminescence in CaAl <sub>2</sub> Si <sub>2</sub> O <sub>8</sub> :Eu <sup>2+</sup> by Partial Sr <sup>2+</sup> Substitution for Ca <sup>2+</sup> . Journal of the Electrochemical Society, 2010, 157, J50.	2.9	39
68	Dielectric measurement to probe electron ordering and electron-spin interaction. Journal of Applied Physics, 2002, 92, 2703-2708.	2.5	38
69	Controlling elastico-mechanoluminescence in diphase (Ba,Ca)TiO <sub>3</sub> :Pr <sup>3+</sup> by co-doping different rare earth ions. RSC Advances, 2014, 4, 40665-40675.	3.6	38
70	Preparation of highly oriented AlN thin films on glass substrates by helicon plasma sputtering and design of experiments. Thin Solid Films, 1999, 350, 85-90.	1.8	37
71	Upconversion luminescence, ferroelectrics and piezoelectrics of Er Doped SrBi <sub>4</sub> Ti <sub>4</sub> O <sub>15</sub> . AIP Advances, 2012, 2, .	1.3	37
72	Enhancement of Adhesion and Triboluminescent Properties of SrAl <sub>2</sub> O <sub>4</sub> :Eu <sup>2+</sup> Films Fabricated by RF Magnetron Sputtering and Postannealing Techniques. Journal of the Electrochemical Society, 2007, 154, J348.	2.9	36

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73	One-Step Synthesis of Luminescent Nanoparticles of Complex Oxide, Strontium Aluminate. Journal of the American Ceramic Society, 2007, 90, 2273-2275.	3.8	36
74	Mechanoluminescence of Europium-Doped SrAMgSi <sub>2</sub> O <sub>7</sub> (A=Ca, Sr, Ba). Japanese Journal of Applied Physics, 2009, 48, 04C109.	1.5	35
75	Property of Highly Oriented SrAl <sub>2</sub> O <sub>4</sub> :Eu Film on Quartz Glass Substrates and Its Potential Application in Stress Sensor. Journal of the Electrochemical Society, 2009, 156, J249.	2.9	35
76	Bright upconversion luminescence and increased Tc in CaBi <sub>2</sub> Ta <sub>2</sub> O <sub>9</sub> :Er high temperature piezoelectric ceramics. Journal of Applied Physics, 2012, 111, .	2.5	35
77	Dramatic suppression of antiferromagnetic coupling in nanoparticle CuO. Solid State Communications, 2004, 132, 493-496.	1.9	34
78	Real-Time Visualisation of the Portevin-Le Chatelier Effect With Mechanoluminescent Sensing Film. Strain, 2011, 47, 483-488.	2.4	34
79	Highly water resistant surface coating by fluoride on long persistent Sr <sub>4</sub> Al <sub>14</sub> O <sub>25</sub> :Eu <sup>2+</sup> /Dy <sup>3+</sup> phosphor. Applied Surface Science, 2010, 256, 2347-2352.	6.1	33
80	Direct visualization of ultrasonic power distribution using mechanoluminescent film. Ultrasonics Sonochemistry, 2011, 18, 436-439.	8.2	33
81	Preparation and luminescence of rare-earth-activated Y <sub>2</sub> SiO <sub>5</sub> thin films by metallorganic decomposition. Journal of Luminescence, 2000, 87-89, 1297-1299.	3.1	32
82	Elasticoluminescence of europium-doped strontium aluminate spherical particles dispersed in polymeric matrices. Materials Letters, 2007, 61, 4124-4127.	2.6	32
83	Promoting effects of additives on thermal stability of tin oxide (IV) fine particles. Journal of Materials Science Letters, 1989, 8, 1092-1094.	0.5	31
84	Development of Strongly Adherent Triboluminescent Zinc Sulfide Films on Glass Substrates by Ion Plating and Annealing. Journal of the American Ceramic Society, 1999, 82, 2342-2344.	3.8	31
85	Evidence of Charge Stripes, Charge-Spin-Orbital Coupling and Phase Transition in a Simple Copper Oxide CuO. Journal of the Physical Society of Japan, 2001, 70, 1054-1063.	1.6	31
86	Enhancement of afterglow in SrAl <sub>2</sub> O <sub>4</sub> :Eu <sup>2+</sup> long-lasting phosphor with swift heavy ion irradiation. RSC Advances, 2012, 2, 328-332.	3.6	31
87	Strong Ultraviolet and Green Emissions at Room Temperature from Annealed ZnO Thin Films. Japanese Journal of Applied Physics, 2002, 41, 666-669.	1.5	30
88	Electro-Mechano-Optical Luminescence from CaYAl <sub>3</sub> O <sub>7</sub> :Ce. Electrochemical and Solid-State Letters, 2011, 14, J76.	2.2	30
89	Mechanoluminescence properties of red-emitting piezoelectric semiconductor MZnOS:Mn <sup>2+</sup> (M = Ca, Ba) with layered structure. Journal of the Ceramic Society of Japan, 2016, 124, 702-705.	1.1	30
90	A combined diffraction (XRD, electron and neutron) and electrical study of Na <sub>3</sub> MoO <sub>3</sub> F <sub>3</sub> . Journal of Solid State Chemistry, 2003, 174, 450-458.	2.9	29

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91	Development of Elastico-Luminescent Nanoparticles and their Applications. <i>Advances in Science and Technology</i> , 2006, 45, 939.	0.2	29
92	Photocell System Driven by Mechanoluminescence. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 2385-2388.	1.5	29
93	Near-infrared luminescence from double-perovskite $\text{Sr}_{0.3}\text{Sn}_{0.2}\text{O}_{7.3}\text{Nd}_{0.3}$ : A new class of probe for in vivo imaging in the second optical window of biological tissue. <i>Journal of the Ceramic Society of Japan</i> , 2017, 125, 591-595.	1.1	28
94	Conductivity Change of $\text{SnO}_2$ with $\text{CO}_2$ Adsorption. <i>Chemistry Letters</i> , 1990, 19, 1243-1246.	1.3	27
95	A novel approach to electrochromism in $\text{WO}_3$ thin film using piezoelectric ceramics for power supply. <i>Applied Physics Letters</i> , 1997, 70, 1639-1640.	3.3	27
96	Enhancement of Photoluminescence in $\text{CaTiO}_3:\text{Pr}^{3+}$ by Ba and Sr Substitution for Ca. <i>Japanese Journal of Applied Physics</i> , 2005, 44, L912-L914.	1.5	27
97	Mechanoluminescence Recording Device Integrated with Photosensitive Material and Europium-Doped $\text{SrAl}_2\text{O}_4$ . <i>Japanese Journal of Applied Physics</i> , 2009, 48, 04C150.	1.5	27
98	Phosphorescence quenching by mechanical stimulus in $\text{CaZnOS}:\text{Cu}$ . <i>Applied Physics Letters</i> , 2014, 105, .	3.3	27
99	Novel Structural Behavior of Strontium Aluminate Doped with Europium. <i>Journal of the Electrochemical Society</i> , 2004, 151, H97.	2.9	26
100	Observation of mechanically induced luminescence from microparticles. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 2819.	2.8	26
101	Effective Repeatable Mechanoluminescence in Heterostructured $\text{Li}_x\text{Na}_x\text{NbO}_3:\text{Pr}^{3+}$ . <i>Small</i> , 2021, 17, e2103441.	10.0	26
102	Invisible crack visualization and depth analysis by mechanoluminescence film. <i>Journal of Alloys and Compounds</i> , 2020, 832, 154900.	5.5	25
103	A New Approach to Single Crystal Growth of $\text{CuO}$ . <i>Materials Research Bulletin</i> , 1998, 33, 605-610.	5.2	24
104	A New Smart Damage Sensor Using Mechanoluminescence Material. <i>Materials Science Forum</i> , 2011, 675-677, 1081-1084.	0.3	24
105	Nature of Sensitivity Promotion in Pd-Loaded $\text{SnO}_2$ Gas Sensor. <i>Journal of the Electrochemical Society</i> , 1996, 143, L148-L150.	2.9	23
106	Water-Resistant Surface-Coating on Europium-Doped Strontium Aluminate Nanoparticles. <i>Journal of the Electrochemical Society</i> , 2007, 154, J77.	2.9	23
107	Mechanoluminescent Testing as an Efficient Inspection Technique for the Management of Infrastructures. <i>Journal of Disaster Research</i> , 2017, 12, 506-514.	0.7	23
108	Intense red mechanoluminescence from $(\text{ZnS})_{1-x}(\text{MnTe})_x$ . <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 4122-4126.	2.1	22

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109	Real-Time Monitoring of Dynamic Stress Concentration by Mechanoluminescent Sensing Film. Applied Mechanics and Materials, 0, 13-14, 247-250.	0.2	22
110	Visualization of active crack on bridge in use by mechanoluminescent sensor. Proceedings of SPIE, 2012, , .	0.8	22
111	Phase transformation behavior and pseudoelastic deformation in SrAl <sub>2</sub> O <sub>4</sub> . Journal of Alloys and Compounds, 2013, 577, S507-S516.	5.5	22
112	Performance of single mechanoluminescent particle as ubiquitous light source. Journal of Colloid and Interface Science, 2014, 427, 62-66.	9.4	22
113	Large electrostrain and high optical temperature sensitivity in BaTiO <sub>3</sub> -(Na <sub>0.5</sub> Ho <sub>0.5</sub> )TiO <sub>3</sub> multifunctional ferroelectric ceramics. Dalton Transactions, 2016, 45, 11733-11741.	3.3	22
114	Promotion of tin oxide gas sensor by aluminum doping. Talanta, 1991, 38, 1169-1175.	5.5	21
115	Long Lasting Phosphorescence from Eu <sup>2+</sup> Doped Sr <sup>2+</sup> -Alumina. Journal of the Electrochemical Society, 2000, 147, 4692.	2.9	21
116	Influence of calcining temperature on photoluminescence and thermal quenching in europium-doped Y <sub>2</sub> SiO <sub>5</sub> using the MOD process. Journal of Luminescence, 2002, 97, 135-140.	3.1	21
117	Controlled Oxygen Partial Pressure Sintering of (Pb,La)(Zr,Ti)O <sub>3</sub> Ceramics. Journal of the American Ceramic Society, 1999, 82, 1447-1450.	3.8	21
118	Anisotropic lattice behavior in elasticoluminescent material SrAl <sub>2</sub> O <sub>4</sub> :Eu <sup>2+</sup> . Applied Physics Letters, 2008, 92, .	3.3	21
119	Intense red emitting mechanoluminescence from CaZnOS:Mn, Li with c-axis preferred orientation. Journal of Advanced Dielectrics, 2014, 04, 1450017.	2.4	21
120	Effect of hole doping in Li <sub>x</sub> Cu <sub>1-x</sub> O. Physical Review B, 2003, 67, .	3.2	20
121	Enhancement of impact-induced mechanoluminescence by swift heavy ion irradiation. Applied Physics Letters, 2012, 100, .	3.3	20
122	Photoluminescence and triboluminescence of PZT materials at room temperature. Ferroelectrics, 2001, 264, 331-336.	0.6	19
123	Antiferromagnetic transition in botallackite Cu <sub>2</sub> Cl(OH) <sub>3</sub> . Solid State Communications, 2004, 131, 509-511.	1.9	19
124	A Novel Technique for Viewing Stress Distribution with Mechanoluminescence Materials. Key Engineering Materials, 0, 368-372, 1401-1404.	0.4	19
125	Defect-induced short-range-order from a spin-ice related state in deformed pyrochlore Co <sub>2</sub> (OH) <sub>3</sub> Cl. Physical Review B, 2008, 77, .	3.2	19
126	Visualization of Stress Distribution Using Smart Mechanoluminescence Sensor. Materials Science Forum, 0, 614, 169-174.	0.3	19



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127	Hybrid material consisting of mechanoluminescent material and TiO <sub>2</sub> photocatalyst. <i>Thin Solid Films</i> , 2009, 518, 473-476.	1.8	19
128	Electric and magnetic anomaly in single crystalline CuO. <i>Physica C: Superconductivity and Its Applications</i> , 1999, 321, 67-73.	1.2	18
129	Upgrading the Triboluminescence of ZnS:Mn Film by Optimization of Sputtering and Thermal Annealing Conditions. <i>Journal of Materials Research</i> , 2002, 17, 959-963.	2.6	18
130	Processing and Properties of SrAl <sub>2</sub> O <sub>4</sub> :Eu Nanoparticles Prepared via Polymer-Coated Precursor. <i>Journal of the Electrochemical Society</i> , 2007, 154, J362.	2.9	18
131	Synthesis of Ca-substituted pressure using CuI. <i>Physica C: Superconductivity and Its Applications</i> , 1996, 271, 272-276.	1.2	17
132	Enhanced Photovoltaic Response in Lead Lanthanum Zirconate-Titanate Ceramics with A-Site Deficient Composition for Photostrictor Application. <i>Japanese Journal of Applied Physics</i> , 2000, 39, 5144-5145.	1.5	17
133	Fast suppression of antiferromagnetism in Cu <sub>1-x</sub> Li <sub>x</sub> O. <i>Physical Review B</i> , 2004, 69, .	3.2	17
134	Electron paramagnetic resonance and luminescent properties of Mn <sup>2+</sup> :MgGa <sub>2</sub> O <sub>4</sub> phosphor. <i>Journal of Applied Physics</i> , 2005, 98, 053910.	2.5	17
135	Electrostrictive Properties of Pr-Doped BaTiO <sub>3</sub> CaTiO <sub>3</sub> Ceramics. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 813-816.	1.5	17
136	Studies on AC Electroluminescence Device Made of BaTiO <sub>3</sub> CaTiO <sub>3</sub> :Pr <sup>3+</sup> Diphase Ceramics. <i>Applied Physics Express</i> , 2010, 3, 022601.	2.4	17
137	Development of porous silica thick films by a new base-catalyzed sol-gel route. <i>Materials Letters</i> , 2001, 49, 102-107.	2.6	16
138	Near Infra-Red Mechanoluminescence from Strontium Aluminate Doped with Rare-Earth Ions. <i>IOP Conference Series: Materials Science and Engineering</i> , 2011, 18, 212013.	0.6	16
139	Development of highly sensitive mechanoluminescent sensor aiming at small strain measurement. <i>Journal of Advanced Dielectrics</i> , 2014, 04, 1450016.	2.4	16
140	A New Potential-type Humidity Sensor Using EMD-based Manganese Oxides as a Solid Electrolyte. <i>Journal of the Electrochemical Society</i> , 1994, 141, L35-L37.	2.9	15
141	Lattice Deformation in Thermally Degraded Barium Magnesium Aluminate Phosphor. <i>Journal of the Electrochemical Society</i> , 2004, 151, E349.	2.9	15
142	Preparation and characterization of preferred oriented PZT films on amorphous substrates. <i>Journal of Materials Science</i> , 1999, 34, 4129-4132.	3.7	14
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