Chao-Nan Xu

List of Publications by Year
in descending order

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259 papers	10,372 citations	41627 51 h-index	48101 92 g-index
266 all docs	266 docs citations	266 times ranked	6982 citing authors

#	Article	IF	Citations
1	New mode of stress sensing in multicolor (Ca1-Sr)8Mg3Al2Si7O28:Eu2+ solid-solution compounds. Nano Energy, 2022, 93, 106799.	8.2	14
2	Near-Infrared Mechanoluminescence Material from Organic Acid-Aided Process. Journal of the Electrochemical Society, 2021, 168, 047508.	1.3	3
3	Effective Repeatable Mechanoluminescence in Heterostructured Li_{1â^'}_xNa_xNbO₃: Pr³⁺. Small, 2021, 17, e2103441.	5.2	26
4	Ferroelectric Sr₃Sn₂O₇:Nd³⁺: A New Multipiezo Material with Ultrasensitive and Sustainable Nearâ€Infrared Piezoluminescence. Advanced Materials, 2020, 32, e1908083.	11.1	62
5	Photoluminescent Ferroelectric LiNbO₃ Crystals Grown from MXenes. Advanced Functional Materials, 2020, 30, 1909843.	7.8	11
6	Invisible crack visualization and depth analysis by mechanoluminescence film. Journal of Alloys and Compounds, 2020, 832, 154900.	2.8	25
7	Control of crystal structure and performance evaluation of multi-piezo material of Li_{1â^'}<i>_x</i>Na<i>_x</i>NbO<sub>3 Journal of the Ceramic Society of Japan, 2020, 128, 518-522.	0.5	4
8	Trap-controlled mechanoluminescent materials. Progress in Materials Science, 2019, 103, 678-742.	16.0	213
9	Scalable Elasticoluminescent Strain Sensor for Precise Dynamic Stress Imaging and Onsite Infrastructure Diagnosis. Advanced Materials Technologies, 2019, 4, 1800336.	3.0	70
10	Tailoring bandgap and trap distribution via Si or Ge substitution for Sn to improve mechanoluminescence in Sr3Sn2O7:Sm3+ layered perovskite oxide. Acta Materialia, 2018, 145, 462-469.	3.8	40
11	Piezophotonics: From fundamentals and materials to applications. MRS Bulletin, 2018, 43, 965-969.	1.7	47
12	Sustainable Mechanoluminescence by Designing a Novel Pinning Trap in Crystals. Journal of Physical Chemistry C, 2018, 122, 23307-23311.	1.5	11
13	Visualization of Relative Strain Distribution for Carbon Fiber Reinforced Plastic Plate by Mechanoluminescent Technique. ECS Transactions, 2017, 75, 23-28.	0.3	3
14	LiNbO₃:Pr³⁺: A Multipiezo Material with Simultaneous Piezoelectricity and Sensitive Piezoluminescence. Advanced Materials, 2017, 29, 1606914.	11.1	177
15	Near-infrared luminescence from double-perovskite Sr₃Sn₂O₇:Nd³⁺: A new class of probe for in vivo imaging in the second optical window of biological tissue. Journal of the Ceramic Society of Japan, 2017, 125, 591-595.	0.5	28
16	Mechanoluminescence enhancement of the layered-structure compound Sr₃Sn₂O₇:Sm³⁺ by H₃BO₃ addition. Journal of the Ceramic Society of Japan, 2017, 125, 811-813.	0.5	6
17	Influence of H₃BO₃ addition on mechanoluminescence property of SrAl₂O₄:Eu²⁺. Journal of the Ceramic Society of Japan, 2017, 125, 648-651.	0.5	9
18	Lifetime-based measurement of mechanical load using mechanical-quenching of CaZnOS:Cu. Journal of the Ceramic Society of Japan, 2017, 125, 438-440.	0.5	0

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19	Mechanoluminescent Testing as an Efficient Inspection Technique for the Management of Infrastructures. Journal of Disaster Research, 2017, 12, 506-514.	0.4	23
20	Large electrostrain and high optical temperature sensitivity in BaTiO₃-(Na_{0.5}Ho_{0.5})TiO₃ multifunctional ferroelectric ceramics. Dalton Transactions, 2016, 45, 11733-11741.	1.6	22
21	Mechanoluminescence properties of red-emitting piezoelectric semiconductor MZnOS:Mn²⁺ (M = Ca, Ba) with layered structure. Journal of the Ceramic Society of Japan, 2016, 124, 702-705.	0.5	30
22	Sheet sensor using SrAl2O4:Eu mechanoluminescent material for visualizing inner crack of high-pressure hydrogen vessel. International Journal of Hydrogen Energy, 2016, 41, 1333-1340.	3.8	72
23	Extraction of mechanoluminescent pattern based on afterglow images. , 2015, , .		0
24	Tuning the mechano-optical conversion in CaZnOS with Cu ion concentration. Journal Physics D: Applied Physics, 2015, 48, 475105.	1.3	9
25	Molecular orbital calculations of Eu-doped SrAl2O4 clusters. Solid State Communications, 2015, 206, 42-45.	0.9	5
26	First-principles energy band calculation of Ruddlesdenâ€“Popper compound Sr3Sn2O7 using modified Beckeâ€“Johnson exchange potential. Journal of Solid State Chemistry, 2015, 232, 163-168.	1.4	6
27	Mechanism of mechanical quenching and mechanoluminescence in phosphorescent CaZnOS:Cu. Light: Science and Applications, 2015, 4, e356-e356.	7.7	88
28	Novel elastico-mechanoluminescence materials CaZnOS:Mn²⁺ and CaZr(PO₄)₂:Eu²⁺. Journal of Advanced Dielectrics, 2014, 04, 1430003.	1.5	14
29	Intense red emitting mechanoluminescence from CaZnOS:Mn,Li with c-axis preferred orientation. Journal of Advanced Dielectrics, 2014, 04, 1450017.	1.5	21
30	Phosphorescence quenching by mechanical stimulus in CaZnOS:Cu. Applied Physics Letters, 2014, 105, .	1.5	27
31	Influence of organic solvent treatment on elasticoluminescent property of europium-doped strontium aluminates. Journal of Luminescence, 2014, 148, 89-93.	1.5	10
32	Electronic structure of Eu2+-doped SrAl2O4 using modified Beckeâ€“Johnson exchange potential. Solid State Communications, 2014, 186, 46-49.	0.9	11
33	Performance of single mechanoluminescent particle as ubiquitous light source. Journal of Colloid and Interface Science, 2014, 427, 62-66.	5.0	22
34	Development of highly sensitive mechanoluminescent sensor aiming at small strain measurement. Journal of Advanced Dielectrics, 2014, 04, 1450016.	1.5	16
35	Controlling elastico-mechanoluminescence in diphase (Ba,Ca)TiO₃:Pr³⁺ by co-doping different rare earth ions. RSC Advances, 2014, 4, 40665-40675.	1.7	38
36	Long-persistent luminescence in the near-infrared from Nd³⁺-doped Sr₂SnO₄for in vivo optical imaging. Japanese Journal of Applied Physics, 2014, 53, 092403.	0.8	47

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37	Purple photochromism in Sr2SnO4:Eu3+ with layered perovskite-related structure. Applied Physics Letters, 2013, 102, .	1.5	43
38	Photoluminescent and Dielectric Characterizations of Pr Doped CaBi₂Nb₂O₉Multifunctional Ferroelectrics. Ferroelectrics, 2013, 450, 113-120.	0.3	8
39	Ultrasonic wave induced mechanoluminescence and its application for photocatalysis as ubiquitous light source. Catalysis Today, 2013, 201, 203-208.	2.2	102
40	Bright Upconversion Emission, Increased T_c, Enhanced Ferroelectric and Piezoelectric Properties in <scp><scp>E</scp></scp>râ€Doped <scp><scp>Ca</scp><scp>Bi</scp></scp>₄<scp><scp>Ti</scp></scp>₄<scp><scp>O</scp></scp><sub>15 Multifunctional Ferroelectric Oxides. Journal of the American Ceramic Society, 2013, 96, 184-190.	1.9	93
41	Er doped BaBi4Ti4O15 multifunctional ferroelectrics: Up-conversion photoluminescence, dielectric and ferroelectric properties. Journal of Alloys and Compounds, 2013, 552, 463-468.	2.8	61
42	Phase transformation behavior and pseudoelastic deformation in SrAl2O4. Journal of Alloys and Compounds, 2013, 577, S507-S516.	2.8	22
43	Strong magnetic-dielectric-lattice coupling in transition metal hydroxyhalides and ferroelectric response in rhombohedral Co2(OD)3X(X=Cl, Br). Physical Review B, 2013, 87, .	1.1	10
44	Fatigue crack detection of CFRP composite pressure vessel using mechanoluminescent sensor. , 2013, , .		0
45	Historical-Log Recording System for Crack Opening and Growth Based on Mechanoluminescent Flexible Sensor. IEEE Sensors Journal, 2013, 13, 3999-4004.	2.4	67
46	An intense elastico-mechanoluminescence material CaZnOS:Mn^2+ for sensing and imaging multiple mechanical stresses. Optics Express, 2013, 21, 12976.	1.7	134
47	Elastico-mechanoluminescence in CaZr(PO_4)_2:Eu^2+ with multiple trap levels. Optics Express, 2013, 21, 13699.	1.7	52
48	Photochromic properties in Eu3+ doped Sr2SnO4. Materials Research Society Symposia Proceedings, 2013, 1492, 111-115.	0.1	0
49	Strong light emission from stress-activated perovskite-related oxides. Materials Research Society Symposia Proceedings, 2013, 1492, 117-122.	0.1	1
50	Evaluation and Prediction of Photoluminescence Performance on the Blue Phosphor CaMgSi2O6:Eu by Analysis of the Trap. Electrochemistry, 2013, 81, 77-81.	0.6	0
51	Enhancement of impact-induced mechanoluminescence for structure health monitoring using swift heavy ion irradiation. , 2012, , .		1
52	Bright upconversion luminescence and increased Tc in CaBi2Ta2O9:Er high temperature piezoelectric ceramics. Journal of Applied Physics, 2012, 111, .	1.1	35
53	Upconversion luminescence, ferroelectrics and piezoelectrics of Er Doped SrBi4Ti4O15. AIP Advances, 2012, 2, .	0.6	37
54	Evaluation of Thermal Stress Distribution With Elasticoluminescent Materials. , 2012, , .		0

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55	Visualization of active crack on bridge in use by mechanoluminescent sensor. Proceedings of SPIE, 2012, , .	0.8	22
56	Enhancement of afterglow in SrAl₂O₄:Eu²⁺long-lasting phosphor with swift heavy ion irradiation. RSC Advances, 2012, 2, 328-332.	1.7	31
57	Enhancement of impact-induced mechanoluminescence by swift heavy ion irradiation. Applied Physics Letters, 2012, 100, .	1.5	20
58	Active crack indicator with mechanoluminescent sensing technique: Detection of crack propagation on building. , 2012, , .		13
59	Strong reddish-orange light emission from stress-activated Sr_{n+1}Sn_nO_{3n+1}:Sm³⁺ (nâ€‰=â€‰1, 2, âˆž) with perovskite-related structures. Applied Physics Letters, 2012, 101, 091113.	1.5	102
60	Detection of Mechanoluminescence Patterns due to Stress Distribution of Structures. Transactions of the Society of Instrument and Control Engineers, 2012, 48, 67-72.	0.1	2
61	Beam profile indicator for swift heavy ions using phosphor afterglow. AIP Advances, 2012, 2, .	0.6	7
62	Development of new elasticoluminescent material SrMg2(PO4)2:Eu. Journal of Luminescence, 2012, 132, 526-530.	1.5	51
63	Electro-Mechano-Optical Luminescence from CaYAl3O7:Ce. Electrochemical and Solid-State Letters, 2011, 14, J76.	2.2	30
64	Mechanoluminescent light source for a fluorescent probe molecule. Chemical Communications, 2011, 47, 8034.	2.2	75
65	Near Infra-Red Mechanoluminescence from Strontium Aluminate Doped with Rare-Earth Ions. IOP Conference Series: Materials Science and Engineering, 2011, 18, 212013.	0.3	16
66	Direct visualization of ultrasonic power distribution using mechanoluminescent film. Ultrasonics Sonochemistry, 2011, 18, 436-439.	3.8	33
67	FUNDAMENTAL STUDY ON CRACK D ETECTION OF CONCRETE WITH MECHANOLUMINESCENT SENSOR UNDER DARK-FIELD. Journal of Japan Society of Civil Engineers Ser E2 (Materials and Concrete Structures), 2011, 67, 430-435.	0.1	1
68	Mechanoluminescent Film Sensor for Visualizing Ultrasonic Power Distribution. IOP Conference Series: Materials Science and Engineering, 2011, 18, 212011.	0.3	4
69	Strong Mechanoluminescence from Oxynitridosilicate Phosphors. IOP Conference Series: Materials Science and Engineering, 2011, 18, 212001.	0.3	13
70	Realâ€Time Visualisation of the Portevinâ€“Le Chatelier Effect With Mechanoluminescentâ€Sensing Film. Strain, 2011, 47, 483-488.	1.4	34
71	A New Smart Damage Sensor Using Mechanoluminescence Material. Materials Science Forum, 2011, 675-677, 1081-1084.	0.3	24
72	Highly water resistant surface coating by fluoride on long persistent Sr4Al14O25:Eu2+/Dy3+ phosphor. Applied Surface Science, 2010, 256, 2347-2352.	3.1	33

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73	Luminescence induced by elastic deformation of ZnS:Mn nanoparticles. Journal of Luminescence, 2010, 130, 442-450.	1.5	111
74	Detection of stress distribution using Ca2MgSi2O7:Eu,Dy microparticles. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 2872-2875.	1.3	41
75	Enhancement of Mechanoluminescence in CaAl[sub 2]Si[sub 2]O[sub 8]:Eu[sup 2+] by Partial Sr[sup 2+] Substitution for Ca[sup 2+]. Journal of the Electrochemical Society, 2010, 157, J50.	1.3	39
76	Studies on AC Electroluminescence Device Made of BaTiO₃â€“CaTiO₃:Pr³⁺Diphase Ceramics. Applied Physics Express, 2010, 3, 022601.	1.1	17
77	Strong Elastico-Mechanoluminescence in Diphase (Ba,Ca)TiO[sub 3]:Pr[sup 3+] with Self-Assembled Sandwich Architectures. Journal of the Electrochemical Society, 2010, 157, G269.	1.3	46
78	Phosphor sensors using mechanoluminescence. , 2010, , .		0
79	Sensing Technology with Elasticoluminescence -Visualizing 'Invisible' Defects in Structures. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2009, 56, 627-634.	0.1	1
80	BLUE LIGHT EMISSION FROM STRESS-ACTIVATED SR₂MGSI₂O₇:EU. International Journal of Modern Physics B, 2009, 23, 1028-1033.	1.0	42
81	Measurement of weak light emitted from mechanoluminescence materials using Si photodiode and light concentrator. , 2009, , .		1
82	Mechanoluminescence Recording Device Integrated with Photosensitive Material and Europium-Doped SrAl₂O₄. Japanese Journal of Applied Physics, 2009, 48, 04C150.	0.8	27
83	Mechanoluminescence of Europium-Doped SrAMgSi₂O₇ (A=Ca, Sr, Ba). Japanese Journal of Applied Physics, 2009, 48, 04C109.	0.8	35
84	Upgrade Mechanoluminescence by Sr²⁺ Substitution in CaAl₂Si₂O₈: Eu²⁺. Key Engineering Materials, 2009, 421-422, 315-318.	0.4	0
85	Real-time detection of axial force for reliable tightening control. , 2009, , .		5
86	Hybrid material consisting of mechanoluminescent material and TiO2 photocatalyst. Thin Solid Films, 2009, 518, 473-476.	0.8	19
87	Development of mechanoluminescent micro-particles Ca2MgSi2O7:Eu,Dy and their application in sensors. Thin Solid Films, 2009, 518, 610-613.	0.8	53
88	Property of Highly Oriented SrAl[sub 2]O[sub 4]:Eu Film on Quartz Glass Substrates and Its Potential Application in Stress Sensor. Journal of the Electrochemical Society, 2009, 156, J249.	1.3	35
89	Structural, optical and electrical properties of luminescent (ZnS)1â^'x(MnTe)x powders. Journal of Alloys and Compounds, 2009, 468, 360-364.	2.8	6
90	Full-field measurement of dynamic stress by mechanoluminescence sensing film. , 2009, , .		2

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91	Intense red mechanoluminescence from (ZnS)1â^'x(MnTe)x. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 4122-4126.	0.9	22
92	Dynamic visualization of stress distribution on metal by mechanoluminescence images. Journal of Visualization, 2008, 11, 329-335.	1.1	68
93	Preparation and characterization of fiber-textured SrAl2O4:Eu films grown using a homo-buffer layer. Journal of Crystal Growth, 2008, 310, 2885-2889.	0.7	7
94	Giant negative thermal expansion in magnetic nanocrystals. Nature Nanotechnology, 2008, 3, 724-726.	15.6	140
95	Determination of Eu Sites in Highly Europium-Doped Strontium Aluminate Phosphor Using Synchrotron X-Ray Powder Diffraction Analysis. Journal of the Electrochemical Society, 2008, 155, F139.	1.3	8
96	Observation of Elasticoluminescence from CaAl[sub 2]Si[sub 2]O[sub 8]:Eu[sup 2+] and Its Water Resistance Behavior. Journal of the Electrochemical Society, 2008, 155, J63.	1.3	47
97	Fabrication of Triboluminescent Film on Inconel 600 Substrate by RF Magnetron Sputtering Method. Key Engineering Materials, 2008, 388, 153-156.	0.4	2
98	Triboluminescence of SrAl₂O₄:Eu Film with Strong Adhesion Fabricated by a Combination of RF Magnetron Sputtering and Post-Annealing Treatment. Key Engineering Materials, 2008, 368-372, 1362-1365.	0.4	10
99	Triboluminescence Properties of Highly Oriented SrAl[sub 2]O[sub 4]:Eu Films on Inconel 600 Substrate. Electrochemical and Solid-State Letters, 2008, 11, J27.	2.2	13
100	Blue Light Emission from Stress-Activated CaYAl[sub 3]O[sub 7]:Eu. Journal of the Electrochemical Society, 2008, 155, J128.	1.3	68
101	Blue-Greenish Light Emission from Stress-Activated SrCaMgSi₂O₇:Eu. Key Engineering Materials, 2008, 368-372, 359-362.	0.4	4
102	Green Mechanoluminescence of Ca[sub 2]MgSi[sub 2]O[sub 7]:Eu and Ca[sub 2]MgSi[sub 2]O[sub 7]:Eu,Dy. Journal of the Electrochemical Society, 2008, 155, J55.	1.3	41
103	Anisotropic lattice behavior in elasticoluminescent material SrAl2O4:Eu2+. Applied Physics Letters, 2008, 92, .	1.5	21
104	Defect-induced short-range-order from a spin-ice related state in deformed pyrochloreCo2(OH)3Cl. Physical Review B, 2008, 77, .	1.1	19
105	A Force Sensor with a Diameter of 20 nm-Characterization of a Single Elasticoluminescence Nanoparticle Using AFM-Photon Measurement System-. Hyomen Kagaku, 2008, 29, 229-234.	0.0	2
106	Ab initiocalculations of the mechanical properties of SrAl2O4 stuffed tridymite. Journal of Applied Physics, 2007, 102, .	1.1	14
107	Stress-Induced Mechanoluminescence in SrCaMgSi[sub 2]O[sub 7]:Eu. Electrochemical and Solid-State Letters, 2007, 10, J129.	2.2	49
108	Photocell System Driven by Mechanoluminescence. Japanese Journal of Applied Physics, 2007, 46, 2385-2388.	0.8	29

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109	Development of a Novel Mechanoluminescent Material with Water-Resistance. Journal of the Society of Powder Technology, Japan, 2007, 44, 673-679.	0.0	2
110	Quality Improvement of SrAl[sub 2]O[sub 4]:Eu[sup 2+] Film on Quartz Glass Through a Two-Step Sputtering Process. Journal of the Electrochemical Society, 2007, 154, J341.	1.3	5
111	Processing and Properties of SrAl[sub 2]O[sub 4]:Eu Nanoparticles Prepared via Polymer-Coated Precursor. Journal of the Electrochemical Society, 2007, 154, J362.	1.3	18
112	Ultraviolet mechanoluminescence from SrAl2O4:Ce and SrAl2O4:Ce,Ho. Applied Physics Letters, 2007, 91, .	1.5	79
113	Enhancement of Adhesion and Triboluminescent Properties of SrAl[sub 2]O[sub 4]:Eu[sup 2+] Films Fabricated by RF Magnetron Sputtering and Postannealing Techniques. Journal of the Electrochemical Society, 2007, 154, J348.	1.3	36
114	Water-Resistant Surface-Coating on Europium-Doped Strontium Aluminate Nanoparticles. Journal of the Electrochemical Society, 2007, 154, J77.	1.3	23
115	Light emission and excitonic effect of boron nitride nanotubes observed by photoluminescent spectra. Optical Materials, 2007, 29, 1295-1298.	1.7	50
116	One-Step Synthesis of Luminescent Nanoparticles of Complex Oxide, Strontium Aluminate. Journal of the American Ceramic Society, 2007, 90, 2273-2275.	1.9	36
117	Elasticoluminescence of europium-doped strontium aluminate spherical particles dispersed in polymeric matrices. Materials Letters, 2007, 61, 4124-4127.	1.3	32
118	Optical properties of BN nanotubes. , 2006, , .		1
119	Electrostrictive Properties of Pr-Doped BaTiO3â€“CaTiO3Ceramics. Japanese Journal of Applied Physics, 2006, 45, 813-816.	0.8	17
120	Observation of mechanically induced luminescence from microparticles. Physical Chemistry Chemical Physics, 2006, 8, 2819.	1.3	26
121	Measurement of mechanically induced luminescence from microparticles. , 2006, , .		1
122	Mechanoluminescence Studies upon Single Nanoparticles by AFM-photomeasurement System. Materials Research Society Symposia Proceedings, 2006, 951, 33.	0.1	1
123	Coexisting Ferromagnetic Order and Disorder in a Uniform System of HydroxyhalideCo2(OH)3Cl. Physical Review Letters, 2006, 97, 247204.	2.9	50
124	Development of Elastico-Luminescent Nanoparticles and their Applications. Advances in Science and Technology, 2006, 45, 939.	0.2	29
125	Electrostrictive and photoluminescent properties in Pr-doped (Ba,Sr)(Ti,Al)O/sub 3/ ceramics. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 1969-1973.	1.7	4
126	Photocell system driven by Mechanoluminescence. , 2006, , .		0

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127	Electro-Mechano-Optical Conversions in Pr3+-Doped BaTiO3-CaTiO3 Ceramics. Advanced Materials, 2005, 17, 1254-1258.	11.1	343
128	Enhancement of Photoluminescence in CaTiO3:Pr3+by Ba and Sr Substitution for Ca. Japanese Journal of Applied Physics, 2005, 44, L912-L914.	0.8	27
129	Coexistence of Long-Range Order and Spin Fluctuation in Geometrically Frustrated ClinoatacamiteCu2Cl(OH)3. Physical Review Letters, 2005, 95, 057201.	2.9	109
130	Unconventional magnetic transitions in the mineral clinoatacamiteCu2Cl(OH)3. Physical Review B, 2005, 71, .	1.1	97
131	Large electrostriction near the solubility limit in BaTiO3â€“CaTiO3 ceramics. Applied Physics Letters, 2005, 86, 022905.	1.5	138
132	Finite-size effect on NÃ©el temperature in antiferromagnetic nanoparticles. Physical Review B, 2005, 72, .	1.1	101
133	Synthesis and Electric Property of CeAlO3Ceramics. Japanese Journal of Applied Physics, 2005, 44, 961-963.	0.8	13
134	Antiferromagnetic transitions in polymorphous minerals of the natural cuprates atacamite and botallackiteCu2Cl(OH)3. Physical Review B, 2005, 71, .	1.1	70
135	Electron paramagnetic resonance and luminescent properties of Mn2+:MgGa2O4 phosphor. Journal of Applied Physics, 2005, 98, 053910.	1.1	17
136	Room temperature sensing of ozone by transparent p-type semiconductor CuAlO2. Applied Physics Letters, 2004, 85, 1728-1729.	1.5	103
137	Lattice Deformation in Thermally Degraded Barium Magnesium Aluminate Phosphor. Journal of the Electrochemical Society, 2004, 151, E349.	1.3	15
138	Antiferromagnetic transition in botallackite Cu2Cl(OH)3. Solid State Communications, 2004, 131, 509-511.	0.9	19
139	Investigation of temperature dependence of photoluminescence in RexY2â^'xSiO5. Optical Materials, 2004, 25, 243-250.	1.7	10
140	Observation of orientational disorder in the hexagonal stuffed tridymite Sr0.864Eu0.136Al2O4by the maximum-entropy method. Journal of Applied Crystallography, 2004, 37, 698-702.	1.9	14
141	Novel Structural Behavior of Strontium Aluminate Doped with Europium.. ChemInform, 2004, 35, no.	0.1	0
142	Dramatic suppression of antiferromagnetic coupling in nanoparticle CuO. Solid State Communications, 2004, 132, 493-496.	0.9	34
143	Fast suppression of antiferromagnetism inCu1â^'xLixO. Physical Review B, 2004, 69, .	1.1	17
144	Electroluminescent ceramics excited by low electrical field. Applied Physics Letters, 2004, 84, 5016-5018.	1.5	42

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145	Strong elasticoluminescence from monoclinic-structure SrAl2O4. Applied Physics Letters, 2004, 84, 3040-3042.	1.5	174
146	Novel Structural Behavior of Strontium Aluminate Doped with Europium. Journal of the Electrochemical Society, 2004, 151, H97.	1.3	26
147	Origin of mechanoluminescence from Mn-activatedZnAl2O4: Triboelectricity-induced electroluminescence. Physical Review B, 2004, 69, .	1.1	80
148	Determination of the Crystal Structure of Spherical Particles of SrAl2O4:Eu Prepared by the Spray Method.. ChemInform, 2003, 34, no.	0.1	0
149	A combined diffraction (XRD, electron and neutron) and electrical study of Na3MoO3F3. Journal of Solid State Chemistry, 2003, 174, 450-458.	1.4	29
150	Determination of the Crystal Structure of Spherical Particles of SrAl[sub 2]O[sub 4]:Eu Prepared by the Spray Method. Journal of the Electrochemical Society, 2003, 150, E251.	1.3	12
151	Influence of Calcining Temperature on Photoluminescence and Triboluminescence of Europium-Doped Strontium Aluminate Particles Prepared by Solâ”Gel Process. Journal of Physical Chemistry B, 2003, 107, 3991-3995.	1.2	106
152	Effect of hole doping inLixCu1â”xO. Physical Review B, 2003, 67, .	1.1	20
153	Improvement in Mechanoluminescence Intensity of Ca[sub 2]Al[sub 2]SiO[sub 7]:Ce by the Statistical Approach. Journal of the Electrochemical Society, 2003, 150, H115.	1.3	12
154	Preparation and Characteristics of ZnO Thin Films Deposited on Glass Substrates. Key Engineering Materials, 2002, 214-215, 193-198.	0.4	2
155	Preparation and Mechanism of Mechanoluminescence Materials with Spinel Structure. Key Engineering Materials, 2002, 214-215, 253-258.	0.4	3
156	Development of Strong Mechanoluminescence with Piezoelectric Materials. Key Engineering Materials, 2002, 216, 15-18.	0.4	7
157	Upgrading the Triboluminescence of ZnS:Mn Film by Optimization of Sputtering and Thermal Annealing Conditions. Journal of Materials Research, 2002, 17, 959-963.	1.2	18
158	Strong Ultraviolet and Green Emissions at Room Temperature from Annealed ZnO Thin Films. Japanese Journal of Applied Physics, 2002, 41, 666-669.	0.8	30
159	Triboluminescence of ZnS:Mn Films Deposited on Quartz Substrates with ZnO Buffer Layers. Japanese Journal of Applied Physics, 2002, 41, 5259-5261.	0.8	12
160	Relationship between the Photoluminescence Property and the Crystallinity of ZnO Thin Films. Key Engineering Materials, 2002, 228-229, 107-112.	0.4	0
161	Electronic Structure of M-Doped ZnGa₂O₄ (M = Mn, Fe,) Tj ETQq1 1 0.784314 rgBT /Ove	0.4	0
162	Intense Deformation Luminescence from Sintered Sr3Al2O6:Eu.. Journal of the Ceramic Society of Japan, 2002, 110, 1029-1031.	1.3	8

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163	Stabilization of beta-SrAl2O4 with Eu Prepared by Spray Pyrolysis. Materials Research Society Symposia Proceedings, 2002, 755, 1.	0.1	0
164	Influence of Sputtering Target Material on Crystallinity and Orientation of AlN Thin Films.. Journal of the Ceramic Society of Japan, 2002, 110, 115-117.	1.3	5
165	First-Principles Energy Band Calculation for SrAl2O4with Monoclinic Structure. Chemistry Letters, 2002, 31, 700-701.	0.7	11
166	<title>Determination of optical properties of PLZT thin films using transmittance spectra processing</title>. , 2002, , .		1
167	Intense visible light emission from stress-activated ZrO2:Ti. Applied Physics Letters, 2002, 81, 457-459.	1.5	52
168	Enhancement of the light emissions from zinc oxide films by controlling the post-treatment ambient. Journal of Applied Physics, 2002, 91, 5640-5644.	1.1	127
169	Dielectric measurement to probe electron ordering and electron-spin interaction. Journal of Applied Physics, 2002, 92, 2703-2708.	1.1	38
170	<title>Enhancement in ZnS:Mn triboluminescent film intensity using ZnO films as buffer layers</title>. , 2002, 4576, 181.		1
171	The effects of carbon addition on the mechanical properties of MoSi2â€“TiC composites. Ceramics International, 2002, 28, 387-392.	2.3	9
172	Influence of calcining temperature on photoluminescence and thermal quenching in europium-doped Y2SiO5 using the MOD process. Journal of Luminescence, 2002, 97, 135-140.	1.5	21
173	Influence of Eu, Dy co-doped strontium aluminate composition on mechanoluminescence intensity. Journal of Luminescence, 2002, 97, 13-18.	1.5	81
174	Composition, structure and luminescent properties of EuxY2â^'xSiO5 thin films. Thin Solid Films, 2002, 415, 10-14.	0.8	2
175	Effects of Heat Treatment on the Surface Microstructure and Mechanical Properties of MoSi₂â€TiC_{0.7}N_{0.3} Composites. Journal of the American Ceramic Society, 2002, 85, 1312-1314.	1.9	2
176	Firstâ€Principles Energy Band Calculation for SrAl₂O₄ with Monoclinic Structure.. ChemInform, 2002, 33, 1-1.	0.1	0
177	Development of porous silica thick films by a new base-catalyzed solâ€“gel route. Materials Letters, 2001, 49, 102-107.	1.3	16
178	Photoluminescence and triboluminescence of PZT materials at room temperature. Ferroelectrics, 2001, 264, 331-336.	0.3	19
179	Stress-stimulated luminescence from ZnAl2O4:Mn. Applied Physics Letters, 2001, 78, 1068-1070.	1.5	101
180	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.	0.7	31

#	Article	IF	Citations
181	Self-Formed Aluminum Nitride Microtubes that Exhibit a Large Bending Stress. Materials Research Society Symposia Proceedings, 2001, 695, 1.	0.1	0
182	Effect of Mn Doping on the Electronic Structure of ZnGa2O4with Spinel-Type Structure. Chemistry Letters, 2001, 30, 664-665.	0.7	2
183	Multilayer pyroelectric thin film with a gradient thermal insulating layer. Ferroelectrics, 2001, 263, 137-142.	0.3	1
184	Multifunction study of PZT thin films on amorphous and polycrystalline substrates. Ferroelectrics, 2001, 263, 155-160.	0.3	4
185	Visualization of stress distribution in solid by mechanoluminescence. , 2001, , .		4
186	Novel approach to dynamic imaging of stress distribution with piezoluminescence. Ferroelectrics, 2001, 263, 3-8.	0.3	6
187	Chargeâ€“spinâ€“orbital coupling in CuO. Physica C: Superconductivity and Its Applications, 2001, 357-360, 181-185.	0.6	7
188	Title is missing!. Journal of Materials Science, 2001, 36, 4361-4364.	1.7	13
189	Phase analysis of PZT 52/48 thin films by synchrotron XRD. Journal of Materials Science Letters, 2001, 20, 933-935.	0.5	1
190	Microstructures and Electrical Characteristics of PZT Thin Films Deposited on Stainless Steel Using a LaNiO₃ Buffer Layer. Key Engineering Materials, 2001, 214-215, 117-122.	0.4	0
191	Preparation of Highly Oriented Aluminum Nitride Thin Films on Polycrystalline Substrates by Helicon Plasma Sputtering and Annealing. Journal of the American Ceramic Society, 2001, 84, 1917-1920.	1.9	9
192	Optical Spectroscopy of Ce3+-Activated X2-Y2SiO5.. Journal of the Ceramic Society of Japan, 2000, 108, 1003-1006.	1.3	8
193	Preparation and luminescence of rare-earth-activated Y2SiO5 thin films by metallorganic decomposition. Journal of Luminescence, 2000, 87-89, 1297-1299.	1.5	32
194	Selective detection of NH3 over NO in combustion exhausts by using Au and MoO3 doubly promoted WO3 element. Sensors and Actuators B: Chemical, 2000, 65, 163-165.	4.0	139
195	Title is missing!. Journal of Materials Science, 2000, 35, 937-941.	1.7	13
196	Photostimulated luminescence phenomenon of Sr4Al14O25 : Eu, Dy using only visible lights. Journal of Materials Science Letters, 2000, 19, 1163-1165.	0.5	9
197	Sol-gel-derived PLZT (7/60/40) thin films on ITO/glass and LNO/glass substrates. , 2000, , .		0
198	Enhanced Photovoltaic Response in Lead Lanthanum Zirconate-Titanate Ceramics with A-Site Deficient Composition for Photostrictor Application. Japanese Journal of Applied Physics, 2000, 39, 5144-5145.	0.8	17

#	Article	IF	Citations
199	Ceramic microtubes self-formed at room temperature that exhibit a large bending stress. Journal of Applied Physics, 2000, 88, 4434.	1.1	7
200	Stress imaging with mechanoluminescence. Proceedings of SPIE, 2000, , .	0.8	8
201	Long Lasting Phosphorescence from Eu[sup 2+] Doped SrÎ²-Alumina. Journal of the Electrochemical Society, 2000, 147, 4692.	1.3	21
202	Thermal annealing effects on the triboluminescence intensity of sputtered ZnS:Mn thin films. Proceedings of SPIE, 2000, , .	0.8	1
203	Observation of Charge Stripes in Cupric Oxide. Physical Review Letters, 2000, 85, 5170-5173.	2.9	210
204	Temperature dependence of photoluminescence of rare-earth-ion-activated Y 2 SiO 5. , 2000, , .		0
205	Dynamic visualization of stress distribution by mechanoluminescence image. Applied Physics Letters, 2000, 76, 179-181.	1.5	207
206	Strong Mechanoluminescence from UV-Irradiated Spinels of ZnGa2O4:Mn and MgGa2O4:Mn. Japanese Journal of Applied Physics, 2000, 39, 6582-6586.	0.8	48
207	Visualization of stress distribution using mechanoluminescence from Sr3Al2O6: Eu and the nature of the luminescence mechanism. Philosophical Magazine Letters, 1999, 79, 735-740.	0.5	45
208	Recovery phenomenon of mechanoluminescence from Ca2Al2SiO7:Ce by irradiation with ultraviolet light. Applied Physics Letters, 1999, 75, 2548-2550.	1.5	91
209	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.	0.8	37
210	Enhancement of adhesion and triboluminescence of ZnS:Mn films by annealing technique. Thin Solid Films, 1999, 352, 273-277.	0.8	80
211	Electric and magnetic anomaly in single crystalline CuO. Physica C: Superconductivity and Its Applications, 1999, 321, 67-73.	0.6	18
212	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.	1.9	31
213	Preparation and characterization of preferred oriented PZT films on amorphous substrates. Journal of Materials Science, 1999, 34, 4129-4132.	1.7	14
214	Evidence of Multiple Phase Transitions in Single-crystalline CuO by DSC Heat Capacity Measurement. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 1999, 57, 853-858.	1.4	5
215	Preparation and characteristics of highly triboluminescent ZnS film. Materials Research Bulletin, 1999, 34, 1491-1500.	2.7	114
216	Multiple phase transitions in CuO. Philosophical Magazine Letters, 1999, 79, 819-825.	0.5	6

#	Article	IF	Citations
217	Artificial skin to sense mechanical stress by visible light emission. Applied Physics Letters, 1999, 74, 1236-1238.	1.5	388
218	Direct view of stress distribution in solid by mechanoluminescence. Applied Physics Letters, 1999, 74, 2414-2416.	1.5	480
219	Microstructure, mechanical properties and oxidation behavior of powder compacts of the Nbâ€“Siâ€“B system prepared by spark plasma sintering. Intermetallics, 1999, 7, 1043-1048.	1.8	73
220	Controlled Oxygen Partial Pressure Sintering of (Pb,La)(Zr,Ti)O₃ Ceramics. Journal of the American Ceramic Society, 1999, 82, 1447-1450.	1.9	21
221	Measurement of Stress Distribution in Si3N4 Using AlN Thin Films. Journal of Materials Science Letters, 1998, 17, 2093-2095.	0.5	2
222	Influence of sputtering atmosphere on crystallinity and crystal orientation of AlN thin films deposited on polycrystalline MoSi2 substrates. Journal of Materials Science, 1998, 33, 2463-2467.	1.7	7
223	Effect of starting material on normal-pressure synthesis of 124 superconductor Y1-xCaxBa2Cu4O8. Journal of Materials Science, 1998, 33, 1057-1061.	1.7	4
224	Humidity sensors using manganese oxides. Sensors and Actuators B: Chemical, 1998, 46, 87-96.	4.0	76
225	A New Approach to Single Crystal Growth of CuO. Materials Research Bulletin, 1998, 33, 605-610.	2.7	24
226	Superconducting properties of silver-doped YBa2Cu4O8 and Y0.9Ca0.1Ba2Cu4O8. Materials Research Bulletin, 1998, 33, 1213-1219.	2.7	3
227	Statistical approach for optimizing sputtering conditions of highly oriented aluminum nitride thin films. Thin Solid Films, 1998, 315, 62-65.	0.8	53
228	Electrical power generation characteristics of PZT piezoelectric ceramics. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1998, 45, 1065-1070.	1.7	77
229	Structure transition induced by electric field in piezoelectric PLZT (7/60/40) ceramics. Ferroelectrics, 1998, 215, 131-138.	0.3	2
230	Growing a periodic microstructure on the superconductor crystal surface by electrocrystallization. Applied Physics Letters, 1998, 72, 1155-1157.	1.5	2
231	Intense visible light emission from Sr3Al2O6:Eu,Dy. Applied Physics Letters, 1998, 73, 3046-3048.	1.5	100
232	A novel approach to electrochromism in WO3 thin film using piezoelectric ceramics for power supply. Applied Physics Letters, 1997, 70, 1639-1640.	1.5	27
233	Investigation on the surface morphology of single crystal Ba1âˆ’xKxBiO3. Physica C: Superconductivity and Its Applications, 1997, 282-287, 1095-1096.	0.6	0
234	A remarkable Jc enhancement in Y124 ceramics due to Ag-addition. Physica C: Superconductivity and Its Applications, 1997, 282-287, 2581-2582.	0.6	1

#	Article	IF	Citations
235	Nature of Sensitivity Promotion in Pdâ€Loaded SnO2 Gas Sensor. Journal of the Electrochemical Society, 1996, 143, L148-L150.	1.3	23
236	Synthesis of Ca-substituted pressure using CuI. Physica C: Superconductivity and Its Applications, 1996, 271, 272-276.	0.6	17
237	A New Potentialâ€Type Humidity Sensor Using EMDâ€Based Manganese Oxides as a Solid Electrolyte. Journal of the Electrochemical Society, 1994, 141, L35-L37.	1.3	15
238	Humidity sensor with manganese oxide for room temperature use. Sensors and Actuators B: Chemical, 1993, 14, 523-524.	4.0	7
239	Humidity Sensing Characteristic of the EMD Derivatives. Journal of the Electrochemical Society, 1992, 139, L111-L113.	1.3	8
240	Stabilization of SnO2 ultrafine particles by additives. Journal of Materials Science, 1992, 27, 963-971.	1.7	101
241	Promotion of tin oxide gas sensor by aluminum doping. Talanta, 1991, 38, 1169-1175.	2.9	21
242	Grain size effects on gas sensitivity of porous SnO2-based elements. Sensors and Actuators B: Chemical, 1991, 3, 147-155.	4.0	1,299
243	Conductivity Change of SnO2with CO2Adsorption. Chemistry Letters, 1990, 19, 1243-1246.	0.7	27
244	Correlation between Gas Sensitivity and Crystallite Size in Porous SnO2-Based Sensors. Chemistry Letters, 1990, 19, 441-444.	0.7	83
245	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
246	Development of strong elasticoluminescence from ferroelectric phase. , 0, , .		0
247	A Novel Technique for Viewing Stress Distribution with Mechanoluminescence Materials. Key Engineering Materials, 0, 368-372, 1401-1404.	0.4	19
248	Development of A Novel Elasticoluminescent Material with Calcium Aluminosilicate. Key Engineering Materials, 0, 368-372, 352-354.	0.4	1
249	Real-Time Monitoring of Dynamic Stress Concentration by Mechanoluminescent Sensing Film. Applied Mechanics and Materials, 0, 13-14, 247-250.	0.2	22
250	New Mechanoluminescent Materials with Various Colors. Key Engineering Materials, 0, 388, 305-308.	0.4	6
251	Enhancement of Mechanoluminescence from ZnS:Mn,Te by Wet Process. Key Engineering Materials, 0, 388, 301-304.	0.4	6
252	Elastico-Luminescent Nanoparticles Prepared via Polymer-Coated Precursor Formed in Reverse Micelles. Key Engineering Materials, 0, 368-372, 355-358.	0.4	2

#	Article	IF	Citations
253	Multifunctional Performance of Europium-Doped Feldspar Ceramics. Advanced Materials Research, 0, 47-50, 209-211.	0.3	5
254	Effects of SrAl₂O₄ Homo-Buffer Layer on SrAl₂O₄:Eu Phosphors Film Grown on Glass by RF Sputtering. Key Engineering Materials, 0, 368-372, 1358-1361.	0.4	1
255	A Novel Blue-Violet Emitting Mechanoluminescent Material with Calcium Aluminosilicate. Key Engineering Materials, 0, 388, 277-280.	0.4	3
256	Dynamic Visualization of Stress Distribution by Mechanoluminescence Image. Key Engineering Materials, 0, 388, 265-268.	0.4	11
257	Triboluminescence of Highly Oriented SrAl₂O₄:Eu Film and its Potential Role as a Stress Indicator. Key Engineering Materials, 0, 421-422, 319-322.	0.4	1
258	Visualization of Stress Distribution Using Smart Mechanoluminescence Sensor. Materials Science Forum, 0, 614, 169-174.	0.3	19
259	Fabrication and Characterization of Calcium Silicate Phosphors - Ca₂SiO₄ and Ca₂MgSi₂O₇ -. Materials Science Forum, 0, 761, 59-64.	0.3	0