

Dengfeng Peng

List of Publications by Year in descending order

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88
papers

3,964
citations

81839

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128225

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92
all docs

92
docs citations

92
times ranked

3369
citing authors

#	ARTICLE	IF	CITATIONS
1	Bimodal Tactile Sensor without Signal Fusion for User-Interactive Applications. ACS Nano, 2022, 16, 2789-2797.	7.3	54
2	Fast self-bleaching Nb ₂ O ₅ -based photochromics for high security dynamic anti-counterfeiting and optical storage applications. Chemical Engineering Journal, 2022, 435, 134801.	6.6	14
3	Molten Salt Shielded Synthesis of Monodisperse Layered CaZnOS-Based Semiconductors for Piezophotonic and X-Ray Detection Applications. Small, 2022, 18, e2107437.	5.2	20
4	Interface synergistic effects induced multi-mode luminescence. Nano Research, 2022, 15, 4457-4465.	5.8	21
5	High-Brightness Perovskite Microcrystalline Light-Emitting Diodes. Journal of Physical Chemistry Letters, 2022, 13, 2963-2968.	2.1	5
6	MgF ₂ :Mn ²⁺ : novel material with mechanically-induced luminescence. Science Bulletin, 2022, 67, 707-715.	4.3	34
7	Broadband multimodal emission in Sb-doped CaZnOS-layered semiconductors. Science China Materials, 2022, 65, 1329-1336.	3.5	8
8	Modeling Polyhedron Distortion for Mechanoluminescence in Mixed-Anion Compounds RE ₂ O ₃ :S:Ln ³⁺ . Chemistry of Materials, 2022, 34, 5311-5319.	3.2	21
9	Halogen-doped phosphorescent carbon dots for grayscale patterning. Light: Science and Applications, 2022, 11, .	7.7	27
10	5d → 4f transition of a lanthanide-activated MCa ₂ S ₄ (M = Ca, Sr) semiconductor for mechanical-to-light energy conversion mediated by structural distortion. Dalton Transactions, 2022, 51, 10457-10465.	1.6	4
11	Epitaxial lift-off for controllable single-crystalline perovskites. Science Bulletin, 2021, 66, 6-8.	4.3	18
12	Continuous-wave lasing from quasi-2D perovskites. Science Bulletin, 2021, 66, 521-523.	4.3	1
13	Reproducible mechanical-to-optical energy conversion in Mn (II) doped sphalerite ZnS. Journal of Luminescence, 2021, 232, 117838.	1.5	15
14	Mechanoluminescent materials for athletic analytics in sports science. Science Bulletin, 2021, 66, 206-209.	4.3	27
15	Rare earth orthoniobate photochromics with self-activated upconversion emissions for high-performance optical storage applications. Journal of Materials Chemistry C, 2021, 9, 13841-13850.	2.7	14
16	Mechanoluminescent materials for tactile sensors. , 2021, , 91-112.		6
17	Site-Selective Occupancy of Eu ²⁺ toward High Luminescence Switching Contrast in BaMgSiO ₄ -Based Photochromic Materials. Advanced Optical Materials, 2021, 9, 2001626.	3.6	35
18	Multiresponsive Emissions in Luminescent Ions Doped Quaternary Piezophotonic Materials for Mechanical-Optical Energy Conversion and Sensing Applications. Advanced Functional Materials, 2021, 31, 2010265.	7.8	48

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19	Site-Selective Occupancy of Eu ²⁺ toward High Luminescence Switching Contrast in BaMgSiO ₄ -Based Photochromic Materials (Advanced Optical Materials 6/2021). Advanced Optical Materials, 2021, 9, 2170021.	3.6	0
20	Self-Recoverable Mechanically Induced Instant Luminescence from Cr ³⁺ -Doped LiGa ₅ O ₈ . Advanced Functional Materials, 2021, 31, 2010685.	7.8	84
21	Achieving Remote Stress and Temperature Dual-Modal Imaging by Double-Lanthanide-Activated Mechanoluminescent Materials. Advanced Functional Materials, 2021, 31, 2101567.	7.8	61
22	Piezophotonics: Multiresponsive Emissions in Luminescent Ions Doped Quaternary Piezophotonic Materials for Mechanical-to-Optical Energy Conversion and Sensing Applications (Adv. Funct. Mater.) Tj ETQq0 0.0 rgBT /@verlock 10		
23	Stimuli responsive lanthanide ions doped layered piezophotonic microcrystals for optical multifunctional sensing applications. Nano Energy, 2021, 87, 106177.	8.2	44
24	Mechanoluminescent hybrids from a natural resource for energy-related applications. Informa-ri-ly, 2021, 3, 1272-1284.	8.5	53
25	Metal Halide Perovskite Arrays: From Construction to Optoelectronic Applications. Advanced Functional Materials, 2021, 31, 2005230.	7.8	40
26	Effective Repeatable Mechanoluminescence in Heterostructured Li _{1-x} Na _x NbO ₃ : Pr ³⁺ . Small, 2021, 17, e2103441.	5.2	26
27	Single-band near-infrared upconversion emission and visible-light absorption in highly doped pseudo-perovskite oxides. Solar Energy Materials and Solar Cells, 2020, 205, 110253.	3.0	6
28	Luminescence in Manganese (II)-Doped SrZn ₂ S ₂ O Crystals From Multiple Energy Conversion. Frontiers in Chemistry, 2020, 8, 752.	1.8	15
29	A ZnS/CaZnOS Heterojunction for Efficient Mechanical-to-Optical Energy Conversion by Conduction Band Offset. Advanced Materials, 2020, 32, e1907747.	11.1	114
30	Visually aided tactile enhancement system based on ultrathin highly sensitive crack-based strain sensors. Applied Physics Reviews, 2020, 7, .	5.5	30
31	Piezoelectricity in Multilayer Black Phosphorus for Piezotronics and Nanogenerators. Advanced Materials, 2020, 32, e1905795.	11.1	84
32	Tuning Multimode Luminescence in Lanthanide(III) and Manganese(II) Co-Doped CaZnOS Crystals. Advanced Optical Materials, 2020, 8, 2000274.	3.6	42
33	Mechanoluminescence materials for advanced artificial skin. Science Bulletin, 2020, 65, 1147-1149.	4.3	62
34	Dynamically Modulated GaN Whispering Gallery Lasing Mode for Strain Sensor. Advanced Functional Materials, 2019, 29, 1905051.	7.8	56
35	WS ₂ /CsPbBr ₃ van der Waals heterostructure planar photodetectors with ultrahigh on/off ratio and piezo-phototronic effect-induced strain-gated characteristics. Nano Energy, 2019, 65, 104001.	8.2	48
36	Tactile Sensors for Advanced Intelligent Systems. Advanced Intelligent Systems, 2019, 1, 1900090.	3.3	80

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37	Crystal-Orientation-Related Dynamic Tuning of the Lasing Spectra of CdS Nanobelts by Piezoelectric Polarization. <i>ACS Nano</i> , 2019, 13, 5049-5057.	7.3	21
38	Controllable Growth of Aligned Monocrystalline CsPbBr ₃ Microwire Arrays for Piezoelectric-Induced Dynamic Modulation of Single-Mode Lasing. <i>Advanced Materials</i> , 2019, 31, e1900647.	11.1	76
39	Controlled fabrication, lasing behavior and excitonic recombination dynamics in single crystal CH ₃ NH ₃ PbBr ₃ perovskite cuboids. <i>Science Bulletin</i> , 2019, 64, 698-704.	4.3	33
40	Mechanoluminescence: Mechanically Excited Multicolor Luminescence in Lanthanide Ions (<i>Adv. Mater.</i>) Tj ETQq0 0,0 rgBT /Overlock 10	11.1	4
41	Mechanically Excited Multicolor Luminescence in Lanthanide Ions. <i>Advanced Materials</i> , 2019, 31, e1807062.	11.1	120
42	Piezophotonic effect based on mechanoluminescent materials for advanced flexible optoelectronic applications. <i>Nano Energy</i> , 2019, 55, 389-400.	8.2	126
43	Nanophotonic energy storage in upconversion nanoparticles. <i>Nano Energy</i> , 2019, 56, 473-481.	8.2	43
44	Intrinsic energy conversions for photon-generation in piezo-phototronic materials: A case study on alkaline niobates. <i>Nano Energy</i> , 2018, 47, 150-171.	8.2	29
45	Reversible luminescence modulation of Ho-doped K _{0.5} Na _{0.5} NbO ₃ piezoelectrics with high luminescence contrast. <i>Journal of the American Ceramic Society</i> , 2018, 101, 2305-2312.	1.9	41
46	One-scan fluorescence emission difference nanoscopy developed with excitation orthogonalized upconversion nanoparticles. <i>Nanoscale</i> , 2018, 10, 21025-21030.	2.8	35
47	Reversible upconversion switching for Ho/Yb codoped (K,Na)NbO ₃ ceramics with excellent luminescence readout capability. <i>Journal of the American Ceramic Society</i> , 2018, 101, 5659-5674.	1.9	36
48	Mechanically induced strong red emission in samarium ions doped piezoelectric semiconductor CaZnOS for dynamic pressure sensing and imaging. <i>Optics Communications</i> , 2017, 395, 24-28.	1.0	40
49	Energy Relay Center for doped mechanoluminescence materials: a case study on Cu-doped and Mn-doped CaZnOS. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 1190-1208.	1.3	35
50	Room-Temperature Large and Reversible Modulation of Photoluminescence by in Situ Electric Field in Ergodic Relaxor Ferroelectrics. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34042-34049.	4.0	52
51	Upconversion photoluminescence properties of Er ³⁺ doped CaBi ₂ Nb ₂ O ₉ phosphors for temperature sensing. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 11921-11925.	1.1	10
52	A Stretchable Nanogenerator with Electric/Light Dual-Mode Energy Conversion. <i>Advanced Energy Materials</i> , 2016, 6, 1600829.	10.2	74
53	Rational design of an ITO/CuS nanosheet network composite film as a counter electrode for flexible dye sensitized solar cells. <i>Journal of Materials Chemistry C</i> , 2016, 4, 8130-8134.	2.7	17
54	CdS@SiO ₂ Core-Shell Electroluminescent Nanorod Arrays Based on a Metal-Insulator-Semiconductor Structure. <i>Small</i> , 2016, 12, 5734-5740.	5.2	14

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55	Mechanoluminescence properties of red-emitting piezoelectric semiconductor MZnOS:Mn^{2+} ($\text{M} = \text{Ca}, \text{Ba}$) with layered structure. <i>Journal of the Ceramic Society of Japan</i> , 2016, 124, 702-705.	0.5	30
56	Bioinspired Electronic Whisker Arrays by Pencil-Drawn Paper for Adaptive Tactile Sensing. <i>Advanced Electronic Materials</i> , 2016, 2, 1600093.	2.6	59
57	Frontispiece: Recent Advances in Doped Mechanoluminescent Phosphors. <i>ChemPlusChem</i> , 2015, 80, .	1.3	0
58	Recent Advances in Doped Mechanoluminescent Phosphors. <i>ChemPlusChem</i> , 2015, 80, 1209-1215.	1.3	107
59	Establishing the Structural Integrity of Core-Shell Nanoparticles against Elemental Migration using Luminescent Lanthanide Probes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12788-12790.	7.2	61
60	Dynamic Pressure Mapping of Personalized Handwriting by a Flexible Sensor Matrix Based on the Mechanoluminescence Process. <i>Advanced Materials</i> , 2015, 27, 2324-2331.	11.1	468
61	Mechanically Induced Light Emission and Infrared-Laser-Induced Upconversion in the Er-Doped CaZnOS Multifunctional Piezoelectric Semiconductor for Optical Pressure and Temperature Sensing. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28136-28142.	1.5	123
62	Bright Green Emission in Ho^{3+} - Yb^{3+} - Co -Doped $\text{Bi}_2\text{NaTi}_2\text{O}_9$ Ferroelectric Ceramics and the Optical Thermometry Behavior. <i>Ferroelectrics</i> , 2015, 487, 133-141.	1.1	14
63	An upconversion nanoprobe operating in the first biological window. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3548-3555.	2.9	49
64	Lanthanide-Doped Energy Cascade Nanoparticles: Full Spectrum Emission by Single Wavelength Excitation. <i>Chemistry of Materials</i> , 2015, 27, 3115-3120.	3.2	92
65	Up-conversion luminescence of Er^{3+} and Yb^{3+} co-doped $\text{CaBi}_2\text{Ta}_2\text{O}_9$ multifunctional ferroelectrics. <i>Journal of Advanced Dielectrics</i> , 2014, 04, 1450018.	1.5	13
66	Color-tunable upconversion emission and optical temperature sensing behaviour in Er-Yb-Mo codoped $\text{Bi}_7\text{Ti}_4\text{NbO}_{21}$ multifunctional ferroelectric oxide. <i>Optical Materials Express</i> , 2014, 4, 1545.	1.6	56
67	Enhanced Luminescence of $\text{NaY}_{0.6}\text{Ce}_{0.1}\text{Gd}_{0.3}\text{Eu}_x\text{F}_4$ Nanorods by Energy Transfers between Ce^{3+} , Gd^{3+} , and Eu^{3+} . <i>Journal of Physical Chemistry C</i> , 2014, 118, 30197-30201.	1.5	21
68	Largely enhanced electromechanical properties of BaTiO_3 - $(\text{Na}_{0.5}\text{Er}_{0.5})\text{TiO}_3$ lead-free piezoelectric ceramics. <i>Applied Physics Letters</i> , 2014, 105, 082901.	1.5	12
69	A new multifunctional Aurivillius oxide $\text{Na}_{0.5}\text{Er}_{0.5}\text{Bi}_4\text{Ti}_4\text{O}_{15}$: Up-conversion luminescent, dielectric, and piezoelectric properties. <i>Ceramics International</i> , 2014, 40, 12477-12483.	2.3	37
70	A highly thermal stable and waterproof red phosphor: Pr^{3+} -doped $\text{Sr}_2\text{Al}_2\text{SiO}_7$. <i>Journal of Materials Science</i> , 2013, 48, 7981-7985.	1.7	11
71	Polarization-induced enhancement of photoluminescence in Pr^{3+} doped ferroelectric diphase BaTiO_3 - CaTiO_3 ceramics. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	57
72	Luminescent, dielectric, and ferroelectric properties of Pr doped $\text{Bi}_7\text{Ti}_4\text{NbO}_{21}$ multifunctional ceramics. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	26

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73	Photoluminescent and Dielectric Characterizations of Pr Doped CaBi ₂ Nb ₂ O ₉ Multifunctional Ferroelectrics. Ferroelectrics, 2013, 450, 113-120.	0.3	8
74	Bright Upconversion Emission, Increased T_c , Enhanced Ferroelectric and Piezoelectric Properties in Er Doped CaBi ₄ Ti ₄ O ₁₅ Multifunctional Ferroelectric Oxides. Journal of the American Ceramic Society, 2013, 96, 184-190.	1.9	93
75	Er doped BaBi ₄ Ti ₄ O ₁₅ multifunctional ferroelectrics: Up-conversion photoluminescence, dielectric and ferroelectric properties. Journal of Alloys and Compounds, 2013, 552, 463-468.	2.8	61
76	Photoluminescence and thermal stability of yellow-emitting Pr ³⁺ doped CaAl ₂ O ₄ phosphors. Journal of Advanced Dielectrics, 2013, 03, 1350022.	1.5	5
77	Tuning NaYF ₄ Nanoparticles through Alkaline Earth Doping. Nanomaterials, 2013, 3, 583-591.	1.9	23
78	Bright upconversion luminescence and increased T_c in CaBi ₂ Ta ₂ O ₉ :Er high temperature piezoelectric ceramics. Journal of Applied Physics, 2012, 111, .	1.1	35
79	Upconversion luminescence, ferroelectrics and piezoelectrics of Er Doped SrBi ₄ Ti ₄ O ₁₅ . AIP Advances, 2012, 2, .	0.6	37
80	Green and red emission for (K _{0.5} Na _{0.5})NbO ₃ :Pr ceramics. Journal of Applied Physics, 2012, 111, 046102.	1.1	56
81	Mixed-solvent thermal synthesis and magnetic properties of flower-like microstructured nickel. Particuology, 2012, 10, 392-396.	2.0	6
82	Blue excited photoluminescence of Pr doped CaBi ₂ Ta ₂ O ₉ based ferroelectrics. Journal of Alloys and Compounds, 2012, 511, 159-162.	2.8	72
83	Strong green and red up-conversion emission in Ho ³⁺ , Yb ³⁺ and Li ⁺ co- or tri-doped SrAl ₂ O ₄ ceramics. Journal of Alloys and Compounds, 2012, 529, 49-51.	2.8	33
84	Strong red emission in Pr doped (Bi _{0.5} Na _{0.5})TiO ₃ ferroelectric ceramics. Journal of Applied Physics, 2011, 110, .	1.1	111
85	Red emission in Pr doped CaBi ₄ Ti ₄ O ₁₅ ferroelectric ceramics. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2011, 176, 1513-1516.	1.7	40
86	One-step synthesis of CdTe branched nanowires and nanorod arrays. Applied Surface Science, 2011, 257, 7684-7688.	3.1	16
87	Hydrothermal synthesis of monodisperse γ -Fe ₂ O ₃ hexagonal platelets. Particuology, 2010, 8, 386-389.	2.0	59
88	Hydrothermal growth of octahedral Fe ₃ O ₄ crystals. Particuology, 2009, 7, 35-38.	2.0	45