

Jianhua Hao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5356616/publications.pdf>

Version: 2024-02-01

328
papers

21,121
citations

6592

79
h-index

12910

131
g-index

335
all docs

335
docs citations

335
times ranked

22105
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Ultraviolet Photoluminescence of Water-Soluble Self-Passivated Graphene Quantum Dots. ACS Nano, 2012, 6, 5102-5110.	7.3	1,526
2	Rational Molecular Design for Achieving Persistent and Efficient Pure Organic Room-Temperature Phosphorescence. Chem, 2016, 1, 592-602.	5.8	610
3	Exceptional Tunability of Band Energy in a Compressively Strained Trilayer MoS ₂ Sheet. ACS Nano, 2013, 7, 7126-7131.	7.3	550
4	Deep Ultraviolet to Near-Infrared Emission and Photoresponse in Layered N-Doped Graphene Quantum Dots. ACS Nano, 2014, 8, 6312-6320.	7.3	455
5	Universal Strategy for HF-Free Facile and Rapid Synthesis of Two-dimensional MXenes as Multifunctional Energy Materials. Journal of the American Chemical Society, 2019, 141, 9610-9616.	6.6	452
6	Stimuli responsive upconversion luminescence nanomaterials and films for various applications. Chemical Society Reviews, 2015, 44, 1585-1607.	18.7	328
7	Electrically Induced Enhancement and Modulation of Upconversion Photoluminescence in Epitaxial BaTiO ₃ :Yb/Er Thin Films. Angewandte Chemie - International Edition, 2011, 50, 6876-6880.	7.2	312
8	Room-temperature ferroelectricity in MoTe ₂ down to the atomic monolayer limit. Nature Communications, 2019, 10, 1775.	5.8	291
9	Wafer-Scale Synthesis of High-Quality Semiconducting Two-Dimensional Layered InSe with Broadband Photoresponse. ACS Nano, 2017, 11, 4225-4236.	7.3	277
10	Field-Effect Transistors Based on Amorphous Black Phosphorus Ultrathin Films by Pulsed Laser Deposition. Advanced Materials, 2015, 27, 3748-3754.	11.1	274
11	Soft-mode hardening in SrTiO ₃ thin films. Nature, 2000, 404, 373-376.	13.7	252
12	Multifunctional Bismuth-Doped Nanoporous Silica Glass: From Blue-Green, Orange, Red, and White Light Sources to Ultra-Broadband Infrared Amplifiers. Advanced Functional Materials, 2008, 18, 1407-1413.	7.8	252
13	Poly[(maleic anhydride)-(vinyl acetate)]: A Pure Oxygenic Nonconjugated Macromolecule with Strong Light Emission and Solvatochromic Effect. Macromolecules, 2015, 48, 64-71.	2.2	242
14	Stable and Efficient Organo-Metal Halide Hybrid Perovskite Solar Cells via Conjugated Lewis Base Polymer Induced Trap Passivation and Charge Extraction. Advanced Materials, 2018, 30, e1706126.	11.1	241
15	PEG modified BaGdF ₅ :Yb/Er nanoprobe for multi-modal upconversion fluorescent, in vivo X-ray computed tomography and biomagnetic imaging. Biomaterials, 2012, 33, 9232-9238.	5.7	240
16	Theranostic Carbon Dots with Innovative NIR-II Emission for in Vivo Renal-Excreted Optical Imaging and Photothermal Therapy. ACS Applied Materials & Interfaces, 2019, 11, 4737-4744.	4.0	218
17	Simultaneous Realization of Phase/Size Manipulation, Upconversion Luminescence Enhancement, and Blood Vessel Imaging in Multifunctional Nanoprobes Through Transition Metal Mn ²⁺ Doping. Advanced Functional Materials, 2014, 24, 4051-4059.	7.8	213
18	Environmentally Friendly Hydrogel-Based Triboelectric Nanogenerators for Versatile Energy Harvesting and Self-Powered Sensors. Advanced Energy Materials, 2017, 7, 1601529.	10.2	212

#	ARTICLE	IF	CITATIONS
19	Luminescent Ions in Advanced Composite Materials for Multifunctional Applications. <i>Advanced Functional Materials</i> , 2016, 26, 6330-6350.	7.8	198
20	Solution-Processable Ultrathin Black Phosphorus as an Effective Electron Transport Layer in Organic Photovoltaics. <i>Advanced Functional Materials</i> , 2016, 26, 864-871.	7.8	187
21	Non-Invasive Optical Guided Tumor Metastasis/Vessel Imaging by Using Lanthanide Nanoprobe with Enhanced Down-Shifting Emission beyond 1500 nm. <i>ACS Nano</i> , 2019, 13, 248-259.	7.3	183
22	Blue, green and red cathodoluminescence of Y ₂ O ₃ phosphor films prepared by spray pyrolysis. <i>Journal of Luminescence</i> , 2001, 93, 313-319.	1.5	182
23	2D Layered Materials of Rare-Earth Er-Doped MoS ₂ with NIR-to-NIR Down- and Up-Conversion Photoluminescence. <i>Advanced Materials</i> , 2016, 28, 7472-7477.	11.1	180
24	Down- and up-conversion photoluminescence, cathodoluminescence and paramagnetic properties of NaGdF ₄ :Yb ³⁺ ,Er ³⁺ submicron disks assembled from primary nanocrystals. <i>Journal of Materials Chemistry</i> , 2010, 20, 3178.	6.7	177
25	Ultrasensitive Detection of Ebola Virus Oligonucleotide Based on Upconversion Nanoprobe/Nanoporous Membrane System. <i>ACS Nano</i> , 2016, 10, 598-605.	7.3	168
26	Water dispersible ultra-small multifunctional KGdF ₄ :Tm ³⁺ , Yb ³⁺ nanoparticles with near-infrared to near-infrared upconversion. <i>Journal of Materials Chemistry</i> , 2011, 21, 16589.	6.7	161
27	Ferroelectric and Piezoelectric Effects on the Optical Process in Advanced Materials and Devices. <i>Advanced Materials</i> , 2018, 30, e1707007.	11.1	159
28	Layer-Dependent Nonlinear Optical Properties and Stability of Non-Centrosymmetric Modification in Few-Layer GaSe Sheets. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1185-1189.	7.2	156
29	Plasmonic enhancement and polarization dependence of nonlinear upconversion emissions from single gold nanorod@SiO ₂ @CaF ₂ :Yb ³⁺ ,Er ³⁺ hybrid core-shell-satellite nanostructures. <i>Light: Science and Applications</i> , 2017, 6, e16217-e16217.	7.7	155
30	Bi-functional NaLuF ₄ :Gd ³⁺ /Yb ³⁺ /Tm ³⁺ nanocrystals: structure controlled synthesis, near-infrared upconversion emission and tunable magnetic properties. <i>Journal of Materials Chemistry</i> , 2012, 22, 9870.	6.7	150
31	Effects of site substitutions and concentration on upconversion luminescence of Er ³⁺ -doped perovskite titanate. <i>Optics Express</i> , 2011, 19, 1824.	1.7	149
32	Piezo-Phototronic Effect-Induced Dual-Mode Light and Ultrasound Emissions from ZnS:Mn/PMN-PT Thin-Film Structures. <i>Advanced Materials</i> , 2012, 24, 1729-1735.	11.1	142
33	Water-Soluble Mitochondria-Specific Ytterbium Complex with Impressive NIR Emission. <i>Journal of the American Chemical Society</i> , 2011, 133, 20120-20122.	6.6	141
34	Upconversion Luminescence Resonance Energy Transfer (LRET)-Based Biosensor for Rapid and Ultrasensitive Detection of Avian Influenza Virus H7 Subtype. <i>Small</i> , 2014, 10, 2390-2397.	5.2	139
35	Magnetic-Assisted Noncontact Triboelectric Nanogenerator Converting Mechanical Energy into Electricity and Light Emissions. <i>Advanced Materials</i> , 2016, 28, 2744-2751.	11.1	138
36	Zwitterionic-Surfactant-Assisted Room-Temperature Coating of Efficient Perovskite Solar Cells. <i>Joule</i> , 2020, 4, 2404-2425.	11.7	137

#	ARTICLE	IF	CITATIONS
37	Large-scale growth of few-layer two-dimensional black phosphorus. <i>Nature Materials</i> , 2021, 20, 1203-1209.	13.3	133
38	Cathodoluminescence of rare-earth-doped zinc aluminate films. <i>Thin Solid Films</i> , 2004, 450, 334-340.	0.8	132
39	Ligand-Driven Wavelength-Tunable and Ultra-Broadband Infrared Luminescence in Single-Ion-Doped Transparent Hybrid Materials. <i>Advanced Functional Materials</i> , 2009, 19, 2081-2088.	7.8	131
40	Site Occupancy and Near-Infrared Luminescence in $\text{Ca}_3\text{Ga}_2\text{Ge}_3\text{O}_{12}$: Cr^{3+} Persistent Phosphor. <i>Advanced Optical Materials</i> , 2017, 5, 1700227.	3.6	131
41	Tuning the Luminescence of Phosphors: Beyond Conventional Chemical Method. <i>Advanced Optical Materials</i> , 2015, 3, 431-462.	3.6	129
42	Dual-modal upconversion fluorescent/X-ray imaging using ligand-free hexagonal phase NaLuF_4 :Gd/Yb/Er nanorods for blood vessel visualization. <i>Biomaterials</i> , 2014, 35, 2934-2941.	5.7	128
43	2D transition metal dichalcogenides, carbides, nitrides, and their applications in supercapacitors and electrocatalytic hydrogen evolution reaction. <i>Applied Physics Reviews</i> , 2020, 7, 021304.	5.5	126
44	Magnetic-Induced Luminescence from Flexible Composite Laminates by Coupling Magnetic Field to Piezophotonic Effect. <i>Advanced Materials</i> , 2015, 27, 4488-4495.	11.1	125
45	Colossal Permittivity Materials as Superior Dielectrics for Diverse Applications. <i>Advanced Functional Materials</i> , 2019, 29, 1808118.	7.8	125
46	Tunable Multicolor Upconversion Emissions and Paramagnetic Property of Monodispersed Bifunctional Lanthanide-Doped NaGdF_4 Nanorods. <i>Journal of Physical Chemistry C</i> , 2011, 115, 20141-20147.	1.5	124
47	Progress in pulsed laser deposited two-dimensional layered materials for device applications. <i>Journal of Materials Chemistry C</i> , 2016, 4, 8859-8878.	2.7	124
48	Magnetic and luminescent properties of multifunctional GdF_3 : Eu^{3+} nanoparticles. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	123
49	Optical and luminescent properties of undoped and rare-earth-doped Ga_2O_3 thin films deposited by spray pyrolysis. <i>Journal Physics D: Applied Physics</i> , 2002, 35, 433-438.	1.3	121
50	Colossal permittivity of (Mg + Nb) co-doped TiO_2 ceramics with low dielectric loss. <i>Journal of Materials Chemistry C</i> , 2017, 5, 5170-5175.	2.7	121
51	Remarkable NIR Enhancement of Multifunctional Nanoprobes for In Vivo Trimodal Bioimaging and Upconversion Optical/T ₂ -Weighted MRI-Guided Small Tumor Diagnosis. <i>Advanced Functional Materials</i> , 2015, 25, 7119-7129.	7.8	115
52	Fully self-healing and shape-tailorable triboelectric nanogenerators based on healable polymer and magnetic-assisted electrode. <i>Nano Energy</i> , 2017, 40, 399-407.	8.2	113
53	Oxide Thin Films for Tunable Microwave Devices. , 2000, 4, 393-405.		112
54	Wind energy and blue energy harvesting based on magnetic-assisted noncontact triboelectric nanogenerator. <i>Nano Energy</i> , 2016, 30, 36-42.	8.2	111

#	ARTICLE	IF	CITATIONS
55	Self-Healing, Flexible, and Tailorable Triboelectric Nanogenerators for Self-Powered Sensors based on Thermal Effect of Infrared Radiation. <i>Advanced Functional Materials</i> , 2020, 30, 1910723.	7.8	110
56	Metal-ion doped luminescent thin films for optoelectronic applications. <i>Journal of Materials Chemistry C</i> , 2013, 1, 5607.	2.7	108
57	Non-invasive through-skull brain vascular imaging and small tumor diagnosis based on NIR-II emissive lanthanide nanoprobe beyond 1500 nm. <i>Biomaterials</i> , 2018, 171, 153-163.	5.7	108
58	Simultaneous synthesis and functionalization of water-soluble up-conversion nanoparticles for in-vitro cell and nude mouse imaging. <i>Nanoscale</i> , 2011, 3, 2175.	2.8	107
59	Multifunctional Crosslinking-Enabled Strain-Regulating Crystallization for Stable, Efficient FAPbI_3 -Based Perovskite Solar Cells. <i>Advanced Materials</i> , 2021, 33, e2008487.	11.1	106
60	Fluoride-Free 2D Niobium Carbide MXenes as Stable and Biocompatible Nanoplatfoms for Electrochemical Biosensors with Ultrahigh Sensitivity. <i>Advanced Science</i> , 2020, 7, 2001546.	5.6	105
61	Towards pure near-infrared to near-infrared upconversion of multifunctional $\text{GdF}_3:\text{Yb}^{3+}, \text{Tm}^{3+}$ nanoparticles. <i>Optics Express</i> , 2010, 18, 6123.	1.7	104
62	Recent Progress in 2D Layered III-VI Semiconductors and their Heterostructures for Optoelectronic Device Applications. <i>Advanced Materials Technologies</i> , 2019, 4, 1900108.	3.0	104
63	Thermal Assisted Oxygen Annealing for High Efficiency Planar $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskite Solar Cells. <i>Scientific Reports</i> , 2014, 4, 6752.	1.6	100
64	Three-terminal memtransistors based on two-dimensional layered gallium selenide nanosheets for potential low-power electronics applications. <i>Nano Energy</i> , 2019, 57, 566-573.	8.2	100
65	White and green light emissions of flexible polymer composites under electric field and multiple strains. <i>Nano Energy</i> , 2015, 14, 372-381.	8.2	98
66	Colossal permittivity properties of Zn,Nb co-doped TiO_2 with different phase structures. <i>Journal of Materials Chemistry C</i> , 2015, 3, 11005-11010.	2.7	98
67	X-ray-Activated Near-Infrared Persistent Luminescent Probe for Deep-Tissue and Renewable in Vivo Bioimaging. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 22132-22142.	4.0	97
68	Dual-modal fluorescent/magnetic bioprobes based on small sized upconversion nanoparticles of amine-functionalized $\text{BaGdF}_5:\text{Yb}/\text{Er}$. <i>Nanoscale</i> , 2012, 4, 5118.	2.8	96
69	In vitro cell imaging using multifunctional small sized $\text{KGdF}_4:\text{Yb}^{3+}, \text{Er}^{3+}$ upconverting nanoparticles synthesized by a one-pot solvothermal process. <i>Nanoscale</i> , 2013, 5, 3465.	2.8	96
70	Environment-resisted flexible high performance triboelectric nanogenerators based on ultrafast self-healing non-drying conductive organohydrogel. <i>Nano Energy</i> , 2021, 82, 105724.	8.2	96
71	Highly efficient low-voltage cathodoluminescence of $\text{LaF}_3:\text{Ln}^{3+}$ ($\text{Ln}=\text{Eu}^{3+}, \text{Ce}^{3+}, \text{Tb}^{3+}$) spherical particles. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	95
72	Above 1% efficiency of a ferroelectric solar cell based on the $\text{Pb}(\text{Zr},\text{Ti})\text{O}_3$ film. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1363-1368.	5.2	94

#	ARTICLE	IF	CITATIONS
73	High-performance colossal permittivity materials of (Nb + Er) co-doped TiO ₂ for large capacitors and high-energy-density storage devices. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 24270-24277.	1.3	94
74	Lanthanide-Doped Energy Cascade Nanoparticles: Full Spectrum Emission by Single Wavelength Excitation. <i>Chemistry of Materials</i> , 2015, 27, 3115-3120.	3.2	92
75	Luminescence of ZnWO ₄ and CdWO ₄ thin films prepared by spray pyrolysis. <i>Journal of Luminescence</i> , 2002, 99, 349-354.	1.5	91
76	Mapping Live Cell Viscosity with an Aggregation-Induced Emission Fluorogen by Means of Two-Photon Fluorescence Lifetime Imaging. <i>Chemistry - A European Journal</i> , 2015, 21, 4315-4320.	1.7	87
77	Temporal and Remote Tuning of Piezophotonic-Induced Luminescence and Color Gamut via Modulating Magnetic Field. <i>Advanced Materials</i> , 2017, 29, 1701945.	11.1	87
78	Memristor Based on Inorganic and Organic Two-Dimensional Materials: Mechanisms, Performance, and Synaptic Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 32606-32623.	4.0	86
79	A Strategy for Simultaneously Realizing the Cubic-to-Hexagonal Phase Transition and Controlling the Small Size of NaYF ₄ :Yb ³⁺ ,Er ³⁺ Nanocrystals for In Vitro Cell Imaging. <i>Small</i> , 2012, 8, 1863-1868.	5.2	85
80	Graphene-based hybrid structures combined with functional materials of ferroelectrics and semiconductors. <i>Nanoscale</i> , 2014, 6, 6346-6362.	2.8	83
81	Efficiency enhancement by defect engineering in perovskite photovoltaic cells prepared using evaporated PbI ₂ /CH ₃ NH ₃ I multilayers. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9223-9231.	5.2	82
82	Second near-infrared emissive lanthanide complex for fast renal-clearable in vivo optical bioimaging and tiny tumor detection. <i>Biomaterials</i> , 2018, 169, 35-44.	5.7	82
83	Luminous and tunable white-light upconversion for YAG (Yb ₃ Al ₅ O ₁₂) and (Yb,Y) ₂ O ₃ nanopowders. <i>Optics Letters</i> , 2010, 35, 3922.	1.7	79
84	Synergistic Dual-Modality <i>in Vivo</i> Upconversion Luminescence/X-ray Imaging and Tracking of Amine-Functionalized NaYbF ₄ :Er Nanoprobles. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 3839-3846.	4.0	79
85	Strategies and progress on improving robustness and reliability of triboelectric nanogenerators. <i>Nano Energy</i> , 2019, 55, 203-215.	8.2	78
86	High-Performance Memristor Based on 2D Layered BiOI Nanosheet for Low-Power Artificial Optoelectronic Synapses. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	78
87	Centimeter-scale growth of two-dimensional layered high-mobility bismuth films by pulsed laser deposition. <i>Informa An-Materially</i> , 2019, 1, 98-107.	8.5	77
88	Simultaneous synthesis and amine-functionalization of single-phase BaYF ₅ :Yb/Er nanoprobe for dual-modal <i>in vivo</i> upconversion fluorescence and long-lasting X-ray computed tomography imaging. <i>Nanoscale</i> , 2013, 5, 6023.	2.8	76
89	Graphene/gallium arsenide-based Schottky junction solar cells. <i>Applied Physics Letters</i> , 2013, 103, 233111.	1.5	75
90	Effects of dopant concentration on structural and near-infrared luminescence of Nd ³⁺ -doped beta-Ga ₂ O ₃ thin films. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	75

#	ARTICLE	IF	CITATIONS
91	Transient photoconductivity properties of tungsten oxide thin films prepared by spray pyrolysis. <i>Journal of Applied Physics</i> , 2001, 90, 5064-5069.	1.1	74
92	Efficient Energy Conversion and Storage Based on Robust Fluoride-Free Self-Assembled 1D Niobium Carbide in 3D Nanowire Network. <i>Advanced Science</i> , 2020, 7, 1903680.	5.6	74
93	A 980 nm laser-activated upconverted persistent probe for NIR-to-NIR rechargeable in vivo bioimaging. <i>Nanoscale</i> , 2017, 9, 7276-7283.	2.8	72
94	Colossal permittivity in TiO ₂ co-doped by donor Nb and isovalent Zr. <i>Journal of the American Ceramic Society</i> , 2018, 101, 307-315.	1.9	72
95	Electroluminescence of europium-doped gallium oxide thin films. <i>Thin Solid Films</i> , 2004, 467, 182-185.	0.8	70
96	Dielectric properties of pulsed-laser-deposited calcium titanate thin films. <i>Applied Physics Letters</i> , 2000, 76, 3100-3102.	1.5	67
97	Bifunctional up-converting lanthanide nanoparticles for selective in vitro imaging and inhibition of cyclin D as anti-cancer agents. <i>Journal of Materials Chemistry B</i> , 2014, 2, 84-91.	2.9	67
98	Multifunctional Optoelectronic Synapse Based on Ferroelectric Van der Waals Heterostructure for Emulating the Entire Human Visual System. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	66
99	Tuning of the blue emission from europium-doped alkaline earth chloroborate thin films activated in air. <i>Applied Physics Letters</i> , 2003, 82, 2778-2780.	1.5	65
100	Manipulating Crystallization Kinetics in High-Performance Blade-Coated Perovskite Solar Cells via Cosolvent-Assisted Phase Transition. <i>Advanced Materials</i> , 2022, 34, e2200276.	11.1	64
101	Luminescent characteristics of blue-emitting Sr ₂ B ₅ O ₉ Cl:Eu thin-film phosphors. <i>Applied Physics Letters</i> , 2001, 79, 740-742.	1.5	63
102	A graphene oxide based fluorescence resonance energy transfer (FRET) biosensor for ultrasensitive detection of botulinum neurotoxin A (BoNT/A) enzymatic activity. <i>Biosensors and Bioelectronics</i> , 2015, 65, 238-244.	5.3	63
103	Lanthanide Yb/Er co-doped semiconductor layered WSe ₂ nanosheets with near-infrared luminescence at telecommunication wavelengths. <i>Nanoscale</i> , 2018, 10, 9261-9267.	2.8	62
104	Ultrabroadband Tuning and Fine Structure of Emission Spectra in Lanthanide Er-Doped ZnSe Nanosheets for Display and Temperature Sensing. <i>ACS Nano</i> , 2020, 14, 16003-16012.	7.3	61
105	Observation of Room-Temperature Magnetoresistance in Monolayer MoS ₂ by Ferromagnetic Gating. <i>ACS Nano</i> , 2017, 11, 6950-6958.	7.3	59
106	Ferroelectric-Driven Performance Enhancement of Graphene Field-Effect Transistors Based on Vertical Tunneling Heterostructures. <i>Advanced Materials</i> , 2016, 28, 10048-10054.	11.1	58
107	Luminescence in 2D Materials and van der Waals Heterostructures. <i>Advanced Optical Materials</i> , 2018, 6, 1701296.	3.6	58
108	Enhanced energy transfer in Nd ³⁺ /Cr ³⁺ co-doped Ca ₃ Ga ₂ Ge ₃ O ₁₂ phosphors with near-infrared and long-lasting luminescence properties. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3396-3402.	2.7	57

#	ARTICLE	IF	CITATIONS
109	Abnormal reduction of Eu ions and luminescence in CaB ₂ O ₄ :Eu thin films. Applied Physics Letters, 2004, 85, 3720-3722.	1.5	56
110	Green, blue, and yellow cathodoluminescence of Ba ₂ B ₅ O ₉ Cl thin-films doped with Tb ³⁺ , Tm ³⁺ , and Mn ²⁺ . Applied Physics Letters, 2003, 82, 2224-2226.	1.5	54
111	Improved Performance of Spherical BaWO ₄ :Tb ³⁺ Phosphors for Field-Emission Displays. Journal of the Electrochemical Society, 2009, 156, J112.	1.3	54
112	Color-tunable upconversion luminescence of Yb ³⁺ , Er ³⁺ , and Tm ³⁺ tri-doped ferroelectric BaTiO ₃ materials. Journal of Applied Physics, 2013, 113, .	1.1	54
113	Addressable and Color-Tunable Piezophotonic Light-Emitting Stripes. Advanced Materials, 2017, 29, 1605165.	11.1	54
114	Ionic Hydrogel for Efficient and Scalable Moisture-Electric Generation. Advanced Materials, 2022, 34, e2200693.	11.1	54
115	Interface structure and phase of epitaxial SrTiO ₃ (110) thin films grown directly on silicon. Applied Physics Letters, 2005, 87, 131908.	1.5	53
116	Ferroelectric Polarization Effects on the Transport Properties of Graphene/PMN-PT Field Effect Transistors. Journal of Physical Chemistry C, 2013, 117, 13747-13752.	1.5	53
117	Highly luminescent hydrogels synthesized by covalent grafting of lanthanide complexes onto PNIPAM via one-pot free radical polymerization. Journal of Materials Chemistry C, 2016, 4, 3195-3201.	2.7	53
118	Effective Piezophotronic Enhancement of Flexible Photodetectors Based on 2D Hybrid Perovskite Ferroelectric Single-Crystalline Thin-Films. Advanced Materials, 2021, 33, e2101263.	11.1	53
119	Two-dimensional ferroelasticity in van der Waals In_2Se_3 . Nature Communications, 2021, 12, 3665.	5.8	53
120	A synaptic memristor based on two-dimensional layered WSe ₂ nanosheets with short- and long-term plasticity. Nanoscale, 2021, 13, 6654-6660.	2.8	51
121	Recent Progress in Black-Phosphorus-Based Heterostructures for Device Applications. Small Methods, 2018, 2, 1700296.	4.6	51
122	Blue cathodoluminescence from Ba ₂ B ₅ O ₉ Cl:Eu phosphor thin films on glass substrates. Applied Physics Letters, 2002, 81, 4154-4156.	1.5	48
123	Effects of controllable biaxial strain on the Raman spectra of monolayer graphene prepared by chemical vapor deposition. Applied Physics Letters, 2013, 102, .	1.5	48
124	A reduced graphene oxide-Au based electrochemical biosensor for ultrasensitive detection of enzymatic activity of botulinum neurotoxin A. Sensors and Actuators B: Chemical, 2015, 220, 131-137.	4.0	48
125	Temperature- and thickness-dependence of robust out-of-plane ferroelectricity in CVD grown ultrathin van der Waals In_2Se_3 layers. Nano Research, 2020, 13, 1897-1902.	5.8	48
126	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

#	ARTICLE	IF	CITATIONS
127	4D-printed self-recovered triboelectric nanogenerator for energy harvesting and self-powered sensor. <i>Nano Energy</i> , 2021, 84, 105873.	8.2	48
128	Water-soluble luminescent hybrid aminoclay grafted with lanthanide complexes synthesized by a Michael-like addition reaction and its gas sensing application in PVP nanofiber. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4670-4676.	2.7	47
129	Piezophotonics: From fundamentals and materials to applications. <i>MRS Bulletin</i> , 2018, 43, 965-969.	1.7	47
130	Tuning of near-infrared luminescence of SrTiO ₃ :Ni ²⁺ thin films grown on piezoelectric PMN-PT via strain engineering. <i>Scientific Reports</i> , 2014, 4, 5724.	1.6	46
131	Healable and shape-memory dual functional polymers for reliable and multipurpose mechanical energy harvesting devices. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16267-16276.	5.2	45
132	Layer-dependent photoresponse of 2D MoS ₂ films prepared by pulsed laser deposition. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2522-2529.	2.7	45
133	Effect of biaxial strain induced by piezoelectric PMN-PT on the upconversion photoluminescence of BaTiO ₃ :Yb/Er thin films. <i>Optics Express</i> , 2014, 22, 29014.	1.7	44
134	Deep ultraviolet photoconductive and near-infrared luminescence properties of Er ³⁺ -doped In ² -Ga ₂ O ₃ thin films. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	44
135	Strategy to Enhance the Luminescence of Lanthanide Ions Doped MgWO ₄ Nanosheets through Incorporation of Carbon Dots. <i>Inorganic Chemistry</i> , 2018, 57, 8662-8672.	1.9	44
136	Enhanced Piezoelectric Response of Layered In ₂ Se ₃ /MoS ₂ Nanosheet-Based van der Waals Heterostructures. <i>ACS Applied Nano Materials</i> , 2020, 3, 11979-11986.	2.4	44
137	Multifunctional Water Drop Energy Harvesting and Human Motion Sensor Based on Flexible Dual-Mode Nanogenerator Incorporated with Polymer Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24030-24038.	4.0	44
138	Transition Metal Doped Smart Glass with Pressure and Temperature Sensitive Luminescence. <i>Advanced Optical Materials</i> , 2018, 6, 1800881.	3.6	43
139	Structural and luminescent properties of gel-combustion synthesized green-emitting Ca ₃ Sc ₂ Si ₃ O ₁₂ :Ce ³⁺ phosphor for solid-state lighting. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 245102.	1.3	42
140	Multi-color luminescence of uniform CdWO ₄ nanorods through Eu ³⁺ ion doping. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2865-2871.	2.7	42
141	Electrical properties of ferroelectric BaTiO ₃ thin film on SrTiO ₃ buffered GaAs by laser molecular beam epitaxy. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	41
142	Disappearance and recovery of colossal permittivity in (Nb+Mn) co-doped TiO ₂ . <i>Ceramics International</i> , 2018, 44, 12395-12400.	2.3	41
143	Synthesis and luminescence of sub-micron sized Ca ₃ Sc ₂ Si ₃ O ₁₂ :Ce green phosphors for white light-emitting diode and field-emission display applications. <i>Journal of Alloys and Compounds</i> , 2010, 504, 488-492.	2.8	40
144	How do substituents affect silole emission?. <i>Journal of Materials Chemistry C</i> , 2013, 1, 5661.	2.7	40

#	ARTICLE	IF	CITATIONS
145	Printing High-Efficiency Perovskite Solar Cells in High-Humidity Ambient Environment” An In Situ Guided Investigation. <i>Advanced Science</i> , 2021, 8, 2003359.	5.6	40
146	Cathodoluminescent characteristics of green-emitting ZnAl ₂ O ₄ :Mn thin-film phosphors. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 80, 151-154.	1.1	39
147	Dielectric loss and defect mode of SrTiO ₃ thin films under direct-current bias. <i>Applied Physics Letters</i> , 2001, 78, 2754-2756.	1.5	38
148	Multifunctional tunable ultra-broadband visible and near-infrared luminescence from bismuth-doped germanate glasses. <i>Journal of Applied Physics</i> , 2013, 113, 083503.	1.1	38
149	Energy Device Applications of Synthesized 1D Polymer Nanomaterials. <i>Small</i> , 2017, 13, 1701820.	5.2	38
150	Microstructure and misfit relaxation in SrTiO ₃ /SrRuO ₃ bilayer films on LaAlO ₃ (100) substrates. <i>Journal of Materials Research</i> , 2001, 16, 3443-3450.	1.2	37
151	Aggregation-Induced Emission Rotors: Rational Design and Tunable Stimuli Response. <i>Chemistry - A European Journal</i> , 2015, 21, 907-914.	1.7	37
152	Piezo-Phototronic Effect in 2D In ₂ Se ₃ /WSe ₂ van der Waals Heterostructure for Photodetector with Enhanced Photoresponse. <i>Advanced Optical Materials</i> , 2021, 9, 2100864.	3.6	37
153	Space-selective control of luminescence inside the Bi-doped mesoporous silica glass by a femtosecond laser. <i>Journal of Materials Chemistry</i> , 2009, 19, 4603.	6.7	36
154	Comparative studies of upconversion luminescence characteristics and cell bioimaging based on one-step synthesized upconversion nanoparticles capped with different functional groups. <i>Journal of Luminescence</i> , 2015, 157, 172-178.	1.5	36
155	Simultaneous observation of up/down conversion photoluminescence and colossal permittivity properties in (Er+Nb) co-doped TiO ₂ materials. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	36
156	Magnetic-Responsive Surface-Enhanced Raman Scattering Platform with Tunable Hot Spot for Ultrasensitive Virus Nucleic Acid Detection. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 4714-4724.	4.0	36
157	Electrical transport properties in group-V elemental ultrathin 2D layers. <i>Npj 2D Materials and Applications</i> , 2020, 4, .	3.9	35
158	Size-induced crystal field parameter change and tunable infrared luminescence in Ni ²⁺ -doped high-gallium nanocrystals embedded glass ceramics. <i>Nanotechnology</i> , 2008, 19, 015702.	1.3	34
159	Endogenous H ₂ S-Triggered In Situ Synthesis of NIR-II-Emitting Nanoprobe for In Vivo Intelligently Lighting Up Colorectal Cancer. <i>IScience</i> , 2019, 17, 217-224.	1.9	34
160	Microplasma-Discharge-Based Nitrogen Fixation Driven by Triboelectric Nanogenerator toward Self-Powered Mechano-Nitrogenous Fertilizer Supplier. <i>Advanced Functional Materials</i> , 2019, 29, 1904090.	7.8	34
161	A General Wet Transferring Approach for Diffusion-Facilitated Space-Confined Grown Perovskite Single-Crystalline Optoelectronic Thin Films. <i>Nano Letters</i> , 2020, 20, 2747-2755.	4.5	34
162	Low Dose Soft X-Ray Remotely Triggered Lanthanide Nanovaccine for Deep Tissue CO Gas Release and Activation of Systemic Anti-Tumor Immunoresponse. <i>Advanced Science</i> , 2021, 8, e2004391.	5.6	34

#	ARTICLE	IF	CITATIONS
163	808 nm excited energy migration upconversion nanoparticles driven by a Nd ³⁺ "Trinity system with color-tunability and superior luminescence properties. <i>Nanoscale</i> , 2018, 10, 2790-2803.	2.8	33
164	Time-dependent transport characteristics of graphene tuned by ferroelectric polarization and interface charge trapping. <i>Nanoscale</i> , 2018, 10, 328-335.	2.8	33
165	Pathogenic Virus Detection by Optical Nanobiosensors. <i>Cell Reports Physical Science</i> , 2021, 2, 100288.	2.8	33
166	Upconversion luminescence of an insulator involving a band to band multiphoton excitation process. <i>Optics Express</i> , 2011, 19, 11753.	1.7	32
167	M ²⁺ Doping Induced Simultaneous Phase/Size Control and Remarkable Enhanced Upconversion Luminescence of NaLnF ₄ Probes for Optical-Guided Tiny Tumor Diagnosis. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601231.	3.9	32
168	Cutting-Edge Nanomaterials for Advanced Multimodal Bioimaging Applications. <i>Small Methods</i> , 2018, 2, 1700265.	4.6	32
169	Reversible Mechanochromism of a Luminescent Elastomer. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 4625-4631.	4.0	31
170	Water-soluble Tb ³⁺ and Eu ³⁺ complexes based on task-specific ionic liquid ligands and their application in luminescent poly(vinyl alcohol) films. <i>Dalton Transactions</i> , 2015, 44, 16810-16817.	1.6	31
171	Highly integrated, scalable manufacturing and stretchable conductive core/shell fibers for strain sensing and self-powered smart textiles. <i>Nano Energy</i> , 2022, 98, 107240.	8.2	30
172	Large-Area Tellurium/Germanium Heterojunction Grown by Molecular Beam Epitaxy for High-Performance Self-Powered Photodetector. <i>Advanced Optical Materials</i> , 2021, 9, 2101052.	3.6	29
173	Fast uptake, water-soluble, mitochondria-specific erbium complex for a dual function molecular probe "imaging and photodynamic therapy. <i>RSC Advances</i> , 2013, 3, 382-385.	1.7	28
174	Ultrabroadband near-infrared luminescence and efficient energy transfer in Bi and Bi/Ho co-doped thin films. <i>Journal of Materials Chemistry C</i> , 2014, 2, 2482.	2.7	28
175	Chemical substitution-induced exceptional emitting-wavelength tuning in transition metal Ni ²⁺ -doped ferroelectric oxides with ultrabroadband near-infrared luminescence. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4631.	2.7	28
176	Size-dependent colorimetric visual detection of melamine in milk at 10 ppb level by citrate-stabilized Au nanoparticles. <i>Analytical Methods</i> , 2012, 4, 2499.	1.3	27
177	Controllable synthesis of lanthanide Yb ³⁺ and Er ³⁺ co-doped AWO ₄ (A = Ca, Sr, Ba) micro-structured materials: phase, morphology and up-conversion luminescence enhancement. <i>Dalton Transactions</i> , 2018, 47, 8611-8618.	1.6	27
178	Ultrasonic-assisted ultrafast fabrication of polymer nanowires for high performance triboelectric nanogenerators. <i>Nano Energy</i> , 2020, 71, 104593.	8.2	27
179	Synergistic Effects of Electrical Stimulation and Aligned Nanofibrous Microenvironment on Growth Behavior of Mesenchymal Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18543-18550.	4.0	26
180	Efficient Flexible Perovskite Solar Cells Using Low-Cost Cu Top and Bottom Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26050-26059.	4.0	26

#	ARTICLE	IF	CITATIONS
181	Dislocations in SrTiO ₃ thin films grown on LaAlO ₃ substrates. Journal of Materials Research, 2002, 17, 3117-3126.	1.2	25
182	Infrared luminescence and amplification properties of Bi-doped GeO ₂ -Ga ₂ O ₃ -Al ₂ O ₃ glasses. Journal of Applied Physics, 2008, 103, 103532.	1.1	25
183	Photoluminescence enhancement in few-layer WS ₂ films via Au nanoparticles. AIP Advances, 2015, 5, .	0.6	25
184	Hybrid lanthanide nanoparticles as a new class of binary contrast agents for in vivo T ₁ /T ₂ dual-weighted MRI and synergistic tumor diagnosis. Journal of Materials Chemistry B, 2016, 4, 2715-2722.	2.9	25
185	Reversible Transformation between Bipolar Memory Switching and Bidirectional Threshold Switching in 2D Layered K-Birnessite Nanosheets. ACS Applied Materials & Interfaces, 2020, 12, 24133-24140.	4.0	25
186	A General In Situ Growth Strategy of Designing Theranostic NaLnF ₄ @Cu ₂ S Nanoplatform for In Vivo NIR-II Optical Imaging Beyond 1500 nm and Photothermal Therapy. Advanced Therapeutics, 2019, 2, 1800153.	1.6	24
187	Low dose soft X-ray-controlled deep-tissue long-lasting NO release of persistent luminescence nanoplatform for gas-sensitized anticancer therapy. Biomaterials, 2020, 263, 120384.	5.7	24
188	Facile Atomic-Level Tuning of Reactive Metal-Support Interactions in the Pt QDs@HF-Free MXene Heterostructure for Accelerating pH-Universal Hydrogen Evolution Reaction. Advanced Science, 2021, 8, e2102207.	5.6	24
189	Optical response of single-crystal (La,Ca)MnO ₃ thin films. Journal of Applied Physics, 1996, 79, 1810-1812.	1.1	23
190	Effects of substrate on the dielectric and tunable properties of epitaxial SrTiO ₃ thin films. Journal of Applied Physics, 2006, 100, 114107.	1.1	23
191	Dislocation density and strain distribution in SrTiO ₃ film grown on (111) DyScO ₃ substrate. Journal Physics D: Applied Physics, 2009, 42, 105307.	1.3	23
192	Near-infrared-to-near-infrared down-shifting and upconversion luminescence of KY ₃ F ₁₀ with single dopant of Nd ³⁺ ion. Applied Physics Letters, 2016, 108, .	1.5	23
193	Efficient hole transfer from monolayer WS ₂ to ultrathin amorphous black phosphorus. Nanoscale Horizons, 2019, 4, 236-242.	4.1	23
194	Recent advances in hybrid perovskite nanogenerators. EcoMat, 2020, 2, e12057.	6.8	23
195	An AlEgen/graphene oxide nanocomposite (AlEgen@GO)-based two-stage turn-on nucleic acid biosensor for rapid detection of SARS-CoV-2 viral sequence. Aggregate, 2023, 4, e195.	5.2	23
196	Strain distribution in epitaxial SrTiO ₃ thin films. Applied Physics Letters, 2006, 89, 262902.	1.5	22
197	Structural and resistance switching properties of ZnO/SrTiO ₃ /GaAs heterostructure grown by laser molecular beam epitaxy. Applied Physics Letters, 2010, 97, 162905.	1.5	22
198	Ultra-Broadband Near-Infrared Luminescence of Ni ²⁺ : ZnO-Al ₂ O ₃ -SiO ₂ Nanocomposite Glasses Prepared by Sol-Gel Method. Journal of the American Ceramic Society, 2011, 94, 2902-2905.	1.9	22

#	ARTICLE	IF	CITATIONS
199	Photovoltaic enhancement due to surface-plasmon assisted visible-light absorption at the inartificial surface of lead zirconate-titanate film. <i>Nanoscale</i> , 2014, 6, 2915-2921.	2.8	22
200	A soft X-ray activated lanthanide scintillator for controllable NO release and gas-sensitized cancer therapy. <i>Nanoscale Horizons</i> , 2020, 5, 268-273.	4.1	22
201	How Universal Is the Wetting Aging in 2D Materials. <i>Nano Letters</i> , 2020, 20, 5670-5677.	4.5	22
202	Synthesis, properties, and applications of 2D amorphous inorganic materials. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	22
203	Luminescence studies of BaAl ₂ O ₄ films doped with Tm, Tb, and Eu. <i>Journal Physics D: Applied Physics</i> , 2002, 35, 2841-2845.	1.3	21
204	Structural and dielectric properties of epitaxial SrTiO ₃ films grown directly on GaAs substrates by laser molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2008, 104, 054103.	1.1	21
205	Phase-change control of ferromagnetism in GeTe-based phase change magnetic thin-films by pulsed laser deposition. <i>Applied Physics Letters</i> , 2011, 99, 081908.	1.5	21
206	A new mechanism for misfit dislocation generation: superdislocations associated with Ruddlesden-Popper planar defects. <i>Journal of Crystal Growth</i> , 2002, 234, 603-609.	0.7	20
207	Quasi-seeded growth, phase transformation, and size tuning of multifunctional hexagonal NaLnF ₄ (Ln = Y, Gd, Yb) nanocrystals via in situ ion-exchange reaction. <i>Journal of Materials Chemistry</i> , 2012, 22, 2254-2262.	6.7	20
208	Controlled synthesis, asymmetrical transport behavior and luminescence properties of lanthanide doped ZnO mushroom-like 3D hierarchical structures. <i>Nanoscale</i> , 2014, 6, 13795-13802.	2.8	20
209	Blue-Green, Red, and White Light Emission of ZnWO ₄ -based Phosphors for Low-Voltage Cathodoluminescence Applications. <i>Journal of the Electrochemical Society</i> , 2008, 155, J152.	1.3	19
210	Persistent luminescence upconversion for Er ₂ O ₃ under 975nm excitation in vacuum. <i>Journal of Luminescence</i> , 2015, 164, 116-122.	1.5	19
211	Transition from nonvolatile bipolar memory switching to bidirectional threshold switching in layered MoO ₃ nanobelts. <i>Journal of Materials Chemistry C</i> , 2019, 7, 12160-12169.	2.7	19
212	Strong piezoelectric response in layered CuInP ₂ S ₆ nanosheets for piezoelectric nanogenerators. <i>Nano Energy</i> , 2022, 99, 107371.	8.2	19
213	Controllable synthesis and formation mechanism of luminescent monodispersed NaEuF ₄ submicron disks through assembled nanocrystals. <i>CrystEngComm</i> , 2010, 12, 1373-1376.	1.3	18
214	Near-infrared Quantum Cutting in Eu ³⁺ -Yb ³⁺ co-doped YAG through Downconversion for Silicon Solar Cell. <i>Energy Procedia</i> , 2012, 15, 129-134.	1.8	18
215	Enhanced broadband near-infrared luminescence in Bi-doped glasses by co-doping with Ag. <i>Journal of Applied Physics</i> , 2013, 113, 183506.	1.1	18
216	Impedance analysis of secondary phases in a Co-implanted ZnO single crystal. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 16030-16038.	1.3	18

#	ARTICLE	IF	CITATIONS
217	Amorphous two-dimensional black phosphorus with exceptional photocarrier transport properties. <i>2D Materials</i> , 2017, 4, 025063.	2.0	18
218	Enhanced dielectric properties of colossal permittivity co-doped TiO ₂ /polymer composite films. <i>RSC Advances</i> , 2018, 8, 32972-32978.	1.7	18
219	Influence of Plasmonic Effect on the Upconversion Emission Characteristics of NaYF ₄ Hexagonal Microrods. <i>Inorganic Chemistry</i> , 2018, 57, 8200-8204.	1.9	18
220	Dielectric properties of Ba _{0.6} Sr _{0.4} TiO ₃ thin films using Pb _{0.3} Sr _{0.7} TiO ₃ buffer layers. <i>Applied Physics Letters</i> , 2007, 91, 252908.	1.5	17
221	Enhanced broadband excited upconversion luminescence in Ho-doped glasses by codoping with bismuth. <i>Optics Letters</i> , 2014, 39, 3022.	1.7	17
222	Lanthanide near-infrared emission and energy transfer in layered WS ₂ /MoS ₂ heterostructure. <i>Science China Materials</i> , 2020, 63, 575-581.	3.5	17
223	Piezoelectric biaxial strain effects on the optical and photoluminescence spectra of 2D III-VI compound \pm -In ₂ Se ₃ nanosheets. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	17
224	Phase transformation and size tuning in controlled-growth of nanocrystals via self-seeded nucleation with preferential thermodynamic stability. <i>Chemical Communications</i> , 2011, 47, 12544.	2.2	16
225	Observation and theoretical analysis of near-infrared luminescence from CVD grown lanthanide Er doped monolayer MoS ₂ triangles. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	16
226	Recent progress on lanthanide scintillators for soft X-ray-triggered bioimaging and deep-tissue theranostics. <i>View</i> , 2021, 2, 20200122.	2.7	16
227	Lanthanide-Doped Topological Nanosheets with Enhanced Near-Infrared Photothermal Performance for Energy Conversion. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 43094-43103.	4.0	16
228	Interfacial and rectifying characteristic of epitaxial SrTiO ₃ /GaAs n junctions. <i>Scripta Materialia</i> , 2011, 65, 323-326.	2.6	15
229	Surface ligand-mediated phase and upconversion luminescence tuning of multifunctional NaGdF ₄ :Yb/Er materials with paramagnetic and cathodoluminescent characteristics. <i>Optical Materials</i> , 2013, 35, 2691-2697.	1.7	15
230	Upconversion Luminescence Sandwich Assay For Detection of Influenza H7 Subtype. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900575.	3.9	15
231	Reversible transition between bipolar resistive switching and threshold switching in 2D layered III-VI semiconductor GaSe. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	15
232	Conservative antiphase boundary in SrTiO ₃ films on LaAlO ₃ substrates with SrRuO ₃ buffer layers. <i>Journal of Applied Physics</i> , 2001, 89, 5653-5656.	1.1	14
233	Light Emission Due to Energy Transfer from Gd ^[sup 3+] to Eu ^[sup 3+] Ions in Paramagnetic NaGdF ₄ :Eu ^[sup 3+] Submicrometer Disks. <i>Journal of the Electrochemical Society</i> , 2010, 157, J315.	1.3	14
234	Heteroepitaxial growth and multiferroic properties of Mn-doped BiFeO ₃ films on SrTiO ₃ buffered III-V semiconductor GaAs. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	14

#	ARTICLE	IF	CITATIONS
235	Electrochemically assisted flexible lanthanide upconversion luminescence sensing of heavy metal contamination with high sensitivity and selectivity. <i>Nanoscale Advances</i> , 2019, 1, 265-272.	2.2	14
236	Stair-rod dislocations in perovskite films on LaAlO ₃ substrates. <i>Philosophical Magazine Letters</i> , 2001, 81, 375-383.	0.5	13
237	Rectifying characteristics and transport behavior of SrTiO ₃ /(110)-p-Si (100) heterojunctions. <i>Applied Physics Letters</i> , 2007, 91, 062105.	1.5	13
238	One-Step, DNA-Programmed, and Flash Synthesis of Anisotropic Noble Metal Nanostructures on MXene. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 52978-52986.	4.0	13
239	Responsivity calculation and measurement of YBaCuO optical detector. <i>IEEE Transactions on Applied Superconductivity</i> , 1993, 3, 2167-2169.	1.1	12
240	Cathodoluminescence of Sr ₂ B ₅ O ₉ Cl thin films doped with Tm ³⁺ , Tb ³⁺ and Mn ²⁺ . <i>Journal of Physics Condensed Matter</i> , 2002, 14, 925-933.	0.7	12
241	Laser molecular beam epitaxy growth and properties of SrTiO ₃ thin films for microelectronic applications. <i>Thin Solid Films</i> , 2006, 515, 559-562.	0.8	12
242	In-plane dielectric properties of epitaxial Ba _{0.7} Sr _{0.3} TiO ₃ thin films grown on GaAs for tunable device application. <i>Journal of Applied Physics</i> , 2012, 112, 054110.	1.1	12
243	Determination of band alignment of pulsed-laser-deposited perovskite titanate/III-V semiconductor heterostructure using X-ray and ultraviolet photoelectron spectroscopy. <i>Applied Physics Letters</i> , 2013, 103, 031919.	1.5	12
244	Scalable In-Fiber Manufacture of Functional Composite Particles. <i>ACS Nano</i> , 2018, 12, 11130-11138.	7.3	12
245	Local Chemistry Engineering in Doped Photonic Glass for Optical Pulse Generation. <i>Advanced Optical Materials</i> , 2019, 7, 1801413.	3.6	12
246	Effect of strain on the ferroelectric properties in epitaxial perovskite titanate thin films grown on ferromagnetic CoFe ₂ O ₄ layers. <i>Scripta Materialia</i> , 2008, 58, 1118-1120.	2.6	11
247	Low-Temperature-Deposited TiO ₂ Nanopillars for Efficient and Flexible Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001512.	1.9	11
248	Bifunctional Device with High Energy Storage Density and Ultralow Current Analog Resistive Switching. <i>Advanced Electronic Materials</i> , 2021, 7, 2000902.	2.6	11
249	Laser-Induced Optical Property Changes Inside Bi-Doped Glass. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 386-388.	1.3	10
250	Coordination Geometry Engineering in a Doped Disordered Matrix for Tunable Optical Response. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29343-29352.	1.5	10
251	Blue-Light Emission from Undoped and Rare Earth-Doped Wide Bandgap Oxides. <i>Journal of Rare Earths</i> , 2006, 24, 728-731.	2.5	9
252	Growth mode mapping and structural properties of controlled perovskite BaTiO ₃ /SrTiO ₃ heterostructure. <i>Applied Physics Letters</i> , 2007, 91, 201919.	1.5	9

#	ARTICLE	IF	CITATIONS
253	Photoluminescent and low-voltage cathodoluminescent blue-emitting phosphors with high colour purity. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 185103.	1.3	9
254	Anomalous second ferromagnetic phase transition as a signature of spinodal decomposition in Fe-doped GeTe diluted magnetic semiconductor. <i>Applied Physics Letters</i> , 2011, 99, 202508.	1.5	9
255	Broadband conversion of ultraviolet to visible and near-infrared emission in Gd ³⁺ /Yb ³⁺ codoped germanate glass. <i>Journal of Non-Crystalline Solids</i> , 2013, 376, 26-29.	1.5	9
256	Upconversion: Simultaneous Realization of Phase/Size Manipulation, Upconversion Luminescence Enhancement, and Blood Vessel Imaging in Multifunctional Nanoprobes Through Transition Metal Mn ²⁺ Doping (<i>Adv. Funct. Mater.</i> 26/2014). <i>Advanced Functional Materials</i> , 2014, 24, 4196-4196.	7.8	9
257	Multicolor tuning towards single red-emission band of upconversion nanoparticles for tunable optical component and optical/x-ray imaging agents via Ce ³⁺ doping. <i>Nanotechnology</i> , 2015, 26, 385702.	1.3	9
258	Electronic transport and magnetic properties in (La ^{1-x} Gdx) _{0.67} Ca _{0.33} MnO ₃ perovskites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001, 83, 70-73.	1.7	8
259	Inner surface enhanced femtosecond second harmonic generation in thin ZnO crystal tubes. <i>Journal of Applied Physics</i> , 2011, 109, 013528.	1.1	8
260	Ion-implantation induced nano distortion layer and its influence on nonlinear optical properties of ZnO single crystals. <i>Journal of Applied Physics</i> , 2011, 110, 083102.	1.1	8
261	Ultra-broadband infrared luminescence of Bi-doped thin-films for integrated optics. <i>Optics Express</i> , 2013, 21, 18532.	1.7	8
262	Temperature dependence of broadband near-infrared luminescence from Ni ²⁺ -doped Ba _{0.5} Sr _{0.5} TiO ₃ . <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	8
263	The Effects of Morphology and Linker Length on the Properties of Peptide-Lanthanide Upconversion Nanomaterials as G2 Phase Cell Cycle Inhibitors. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 4539-4545.	1.0	8
264	Directional Plk1 inhibition-driven cell cycle interruption using amphiphilic thin-coated peptide-lanthanide upconversion nanomaterials as in vivo tumor suppressors. <i>Journal of Materials Chemistry B</i> , 2015, 3, 2624-2634.	2.9	8
265	Upconversion Red Emission and Near-Infrared Quantum-Cutting Persistent Luminescence of Nd ³⁺ -Activated Ca ₂ SnO ₄ Induced by Yb ³⁺ . <i>Journal of Physical Chemistry C</i> , 2020, 124, 19774-19780.	1.5	8
266	The impact of trench geometry and processing on the performance and reliability of low voltage power UMOSFETs. , 0, , .		7
267	In situ growth of blue-emitting thin films of cerium-doped barium chloride hydrate at low temperatures. <i>Applied Physics Letters</i> , 2003, 82, 1404-1406.	1.5	7
268	Electrical transport and resistance switching characteristics of BiFeO ₃ /Nb:SrTiO ₃ /GaAs heterostructure fabricated by pulsed laser deposition. <i>Applied Physics Letters</i> , 2014, 105, 062904.	1.5	7
269	Enhancement of photo-electrochemical reactions in MAPbI ₃ /Au. <i>Materials Today Energy</i> , 2018, 9, 303-310.	2.5	7
270	Biaxial strain-induced strong enhancement of upconversion photoluminescence in lanthanide-doped ferroelectric thin films. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 234002.	1.3	7

#	ARTICLE	IF	CITATIONS
271	Broadband Near-Infrared Quantum Cutting in Metal-Ion Codoped $\text{Y}_3\text{Al}_5\text{O}_{12}$ Thin Films Grown by Pulsed-Laser Deposition for Solar Cell Application. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-6.	1.5	6
272	Structural, Electronic, and Optical Properties of Functional Metal Oxides. <i>Advances in Condensed Matter Physics</i> , 2014, 2014, 1-2.	0.4	6
273	Infrared response of granular YBCO superconducting films. <i>Solid State Communications</i> , 1994, 89, 535-537.	0.9	5
274	In_xSn thin film grown on GaAs substrate by MBE and investigation of its multi-quantum well structure. <i>Science in China Series A: Mathematics</i> , 1998, 41, 399-404.	0.5	5
275	Photoexcitation and transport characteristics in doped manganite thin films. <i>Materials Letters</i> , 2000, 46, 225-228.	1.3	5
276	Characterization of oxide thin films using optical techniques. <i>Applied Surface Science</i> , 2006, 253, 372-375.	3.1	5
277	Tumor Detection: Remarkable NIR Enhancement of Multifunctional Nanoprobes for In Vivo Trimodal Bioimaging and Upconversion Optical/T2-Weighted MRI-Guided Small Tumor Diagnosis (<i>Adv. Funct. Mater.</i> 2014, 24, 1084-1091)	10.784314	81
278	Tuning of near-infrared-to-near-infrared luminescence from one-photon to two-photon anti-Stokes shift in $\text{Ca}_3\text{Ga}_2\text{Cr}_x\text{Ge}_{30-12}\text{O}_{12}$ via varying Cr^{3+} content. <i>Optics Letters</i> , 2017, 42, 715.	1.7	5
279	Enhanced output power of a freestanding ball-based triboelectric generator through the electrophorus effect. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18518-18524.	5.2	5
280	$\text{SrTiO}_3(110)$ thin films grown directly on different oriented silicon substrates. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 81, 1233-1236.	1.1	4
281	Triboelectric Nanogenerators: Magnetic-Assisted Noncontact Triboelectric Nanogenerator Converting Mechanical Energy into Electricity and Light Emissions (<i>Adv. Mater.</i> 14/2016). <i>Advanced Materials</i> , 2016, 28, 2843-2843.	11.1	4
282	InfoMat : A cross-field exploration of information technology and materials science. <i>Information Materials</i> , 2019, 1, 4-5.	8.5	4
283	Design and fabrication of 128×128 diffractive microlens arrays on Si for PtSi focal plane arrays. , 1998, , .		3
284	Improvement of laser molecular beam epitaxy grown SrTiO_3 thin film properties by temperature gradient modulation growth. <i>Applied Physics Letters</i> , 2007, 91, 131902.	1.5	3
285	Low-temperature synthesis and cathodoluminescence properties of borate-based thin films. <i>Journal of Luminescence</i> , 2007, 122-123, 577-579.	1.5	3
286	Growth mode and dielectric properties in laser MBE grown multilayer of SrTiO_3 and $\text{YBa}_2\text{Cu}_3\text{O}$. <i>Vacuum</i> , 2010, 85, 639-642.	1.6	3
287	Synthesis of $(\text{Sr}, \text{Eu})\text{CO}_3@ \text{SiO}_2$ core-shell-like precursor for alkali earth silicate phosphors. <i>Journal of Rare Earths</i> , 2011, 29, 911-914.	2.5	3
288	Comparative Studies of Multi-Photon Induced Emission by Pyridine-Based Small Molecular Probes in Biological Media: Selective Binding of Bioactive Molecules and In Vitro Imaging. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 5054-5060.	1.2	3

#	ARTICLE	IF	CITATIONS
289	Phosphors: Tuning the Luminescence of Phosphors: Beyond Conventional Chemical Method (Advanced) Tj ETQq1 1,0.784314 3.6 rgBT /Ove	3.6	3
290	Highly phosphorescent hollow fibers inner-coated with tungstate nanocrystals. Materials Research Express, 2017, 4, 125029.	0.8	3
291	A General Strategy to Achieve Colossal Permittivity and Low Dielectric Loss Through Constructing Insulator/Semiconductor/Insulator Multilayer Structures. Journal of Low Temperature Physics, 2018, 192, 346-358.	0.6	3
292	Piezophotonics: Multiresponsive Emissions in Luminescent Ions Doped Quaternary Piezophotonic Materials for Mechanicalâ€œOptical Energy Conversion and Sensing Applications (Adv. Funct. Mater.) Tj ETQq0 0.0 rgBT /@verlock 10	0.0	10
293	Design and fabrication of 256x256 diffractive microlens arrays on Si substrates. , 1998, , .		2
294	<title>Design and fabrication of 128X128 diffractive microlens arrays for infrared focal plane arrays</title>. , 1998, 3545, 210.		2
295	Properties of interfaces between SrTiO3 thin films and electrodes. Integrated Ferroelectrics, 2000, 29, 53-61.	0.3	2
296	Dielectric and lattice dynamical properties of SrTiO3 thin films. Integrated Ferroelectrics, 2000, 28, 247-256.	0.3	2
297	Ordered array of nanoscale Ru crystals in the SrRuO3 buffer layer in an SrTiO3/SrRuO3 bilayer film on SrTiO3 substrate. Journal of Crystal Growth, 2003, 252, 279-284.	0.7	2
298	Application of optical and luminescent techniques to the characterization of oxide thin films. Applied Surface Science, 2006, 252, 5590-5593.	3.1	2
299	Lattice strain induced phase selection and epitaxial relaxation in crystalline GeTe thin film. Thin Solid Films, 2014, 568, 70-73.	0.8	2
300	Selfâ€Powered Sensors: Environmentally Friendly Hydrogelâ€Based Triboelectric Nanogenerators for Versatile Energy Harvesting and Selfâ€Powered Sensors (Adv. Energy Mater. 1/2017). Advanced Energy Materials, 2017, 7, .	10.2	2
301	Mechanoluminescence: Temporal and Remote Tuning of Piezophotonicâ€Effectâ€Induced Luminescence and Color Gamut via Modulating Magnetic Field (Adv. Mater. 43/2017). Advanced Materials, 2017, 29, .	11.1	2
302	Terahertz relaxation dynamics of a two-dimensional InSe multilayer. Physical Review B, 2020, 102, .	1.1	2
303	Different characteristics of high-temperature superconducting infrared detectors with granular and epitaxial films. Journal of Infrared, Millimeter and Terahertz Waves, 1993, 14, 265-272.	0.6	1
304	Low-frequency 1/f noise in oxide material with giant magnetoresistance behavior. Science Bulletin, 1997, 42, 163-166.	1.7	1
305	Propagation and interaction of {111} planar defects in the SrRuO3buffer layer in SrTiO3/SrRuO3two-layer films on LaAlO3substrates. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2002, 82, 65-80.	0.8	1
306	INTEGRATION OF LASER MBE GROWN OXIDE THIN FILMS OF SrTiO3 WITH YBa2Cu3Oy FOR TUNABLE APPLICATIONS. Surface Review and Letters, 2007, 14, 833-836.	0.5	1

#	ARTICLE	IF	CITATIONS
307	DISLOCATION DENSITY IN SrTiO ₃ FILM GROWN ON DyScO ₃ BY PULSE LASER ABLATION. Surface Review and Letters, 2007, 14, 779-782.	0.5	1
308	Effect of Strain on Ferroelectric and Magnetic Behavior in Pb(Zr _{0.52} Ti _{0.48})O ₃ -Based Magnetoelectric Heterostructures. Journal of Nanoscience and Nanotechnology, 2011, 11, 11227-11230.	0.9	1
309	Magnetic-Induced Luminescence: Magnetic-Induced Luminescence from Flexible Composite Laminates by Coupling Magnetic Field to Piezophotonic Effect (Adv. Mater. 30/2015). Advanced Materials, 2015, 27, 4487-4487.	11.1	1
310	Vertical Graphene Tunneling Heterostructure with Ultrathin Ferroelectric BaTiO ₃ Film as a Tunnel Barrier. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800205.	1.2	1
311	Flexible Solar Cells: Low-Temperature-Deposited TiO ₂ Nanopillars for Efficient and Flexible Perovskite Solar Cells (Adv. Mater. Interfaces 3/2021). Advanced Materials Interfaces, 2021, 8, 2170016.	1.9	1
312	Lanthanide-Based Upconversion Nanoparticles for Bioimaging Applications. , 2020, , 129-153.		1
313	Information is everywhere. Informa-Materially, 2022, 4, e12286.	8.5	1
314	In situ growth of Y-Ba-Cu-O films by ion beam sputtering. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1994, 22, 165-167.	1.7	0
315	The Bi _{1-x} Sb _x multiquantum well structure. , 1998, , .		0
316	Dielectric Properties of Pulsed Laser Deposited SrTiO ₃ Thin Films. Materials Research Society Symposia Proceedings, 1998, 541, 77.	0.1	0
317	Design and fabrication of 128x128 diffractive microlens arrays on Si substrates. , 1998, 3505, 19.		0
318	Interface Properties Between SrTiO ₃ Thin Films and Electrodes. Materials Research Society Symposia Proceedings, 1999, 596, 31.	0.1	0
319	A novel hydrate-based thin-film phosphor: low-temperature growth process and properties. Applied Physics A: Materials Science and Processing, 2005, 81, 1277-1280.	1.1	0
320	CRYSTALLINE SrTiO ₃ THIN FILMS ON SILICON BY PULSED LASER DEPOSITION. International Journal of Modern Physics B, 2005, 19, 533-535.	1.0	0
321	Effect of preparation on the growth mode and structure in laser MBE grown multilayer of SrTiO ₃ and YBa ₂ Cu ₃ O _y . , 2007, , .		0
322	Magnetotransport and dielectric properties of perovskite ruthenate and titanate thin films. Journal of Applied Physics, 2008, 103, 063912.	1.1	0
323	Upconversion Nanomaterials for Biodetection and Multimodal Bioimaging Using Photoluminescence. , 2018, , 249-275.		0
324	Optically Active Materials: Local Chemistry Engineering in Doped Photonic Glass for Optical Pulse Generation (Advanced Optical Materials 6/2019). Advanced Optical Materials, 2019, 7, 1970022.	3.6	0

#	ARTICLE	IF	CITATIONS
325	Effective Piezo-Phototronic Enhancement of Flexible Photodetectors Based on 2D Hybrid Perovskite Ferroelectric Single-Crystalline Thin-Films (Adv. Mater. 32/2021). Advanced Materials, 2021, 33, 2170252.	11.1	0
326	Ferroelectric and piezoelectric effects on light-emissions and their applications in energy harvesting and sensors. , 2018, , .		0
327	Piezophotonics of the heterostructures and optoelectronic devices from layered III-VI semiconductors. , 2019, , .		0
328	Nonvolatile modulation of luminescence in perovskite oxide thin films by ferroelectric gating. Optics Letters, 2022, 47, 1578.	1.7	0