

Jianhua Hao

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323
papers

16,090
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70
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115
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335
ext. papers

18,480
ext. citations

8.8
avg, IF

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L-index

#	Paper	IF	Citations
323	Deep ultraviolet photoluminescence of water-soluble self-passivated graphene quantum dots. <i>ACS Nano</i> , 2012 , 6, 5102-10	16.7	1323
322	Exceptional tunability of band energy in a compressively strained trilayer MoS ₂ sheet. <i>ACS Nano</i> , 2013 , 7, 7126-31	16.7	429
321	Rational Molecular Design for Achieving Persistent and Efficient Pure Organic Room-Temperature Phosphorescence. <i>Chem</i> , 2016 , 1, 592-602	16.2	399
320	Deep ultraviolet to near-infrared emission and photoresponse in layered N-doped graphene quantum dots. <i>ACS Nano</i> , 2014 , 8, 6312-20	16.7	384
319	Stimuli responsive upconversion luminescence nanomaterials and films for various applications. <i>Chemical Society Reviews</i> , 2015 , 44, 1585-607	58.5	277
318	Electric-induced enhancement and modulation of upconversion photoluminescence in epitaxial BaTiO ₃ :Yb/Er thin films. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 6876-80	16.4	263
317	Multifunctional Bismuth-Doped Nanoporous Silica Glass: From Blue-Green, Orange, Red, and White Light Sources to Ultra-Broadband Infrared Amplifiers. <i>Advanced Functional Materials</i> , 2008 , 18, 1407-1413	15.6	225
316	Field-effect transistors based on amorphous black phosphorus ultrathin films by pulsed laser deposition. <i>Advanced Materials</i> , 2015 , 27, 3748-54	24	222
315	PEG modified BaGdF ₅ :Yb/Er nanoprobe for multi-modal upconversion fluorescent, in vivo X-ray computed tomography and biomagnetic imaging. <i>Biomaterials</i> , 2012 , 33, 9232-8	15.6	221
314	Soft-mode hardening in SrTiO ₃ thin films. <i>Nature</i> , 2000 , 404, 373-6	50.4	219
313	Universal Strategy for HF-Free Facile and Rapid Synthesis of Two-dimensional MXenes as Multifunctional Energy Materials. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9610-9616	16.4	208
312	Wafer-Scale Synthesis of High-Quality Semiconducting Two-Dimensional Layered InSe with Broadband Photoresponse. <i>ACS Nano</i> , 2017 , 11, 4225-4236	16.7	207
311	Stable and Efficient Organo-Metal Halide Hybrid Perovskite Solar Cells via EConjugated Lewis Base Polymer Induced Trap Passivation and Charge Extraction. <i>Advanced Materials</i> , 2018 , 30, e1706126	24	192
310	Simultaneous Realization of Phase/Size Manipulation, Upconversion Luminescence Enhancement, and Blood Vessel Imaging in Multifunctional Nanoprobes Through Transition Metal Mn ²⁺ Doping. <i>Advanced Functional Materials</i> , 2014 , 24, 4051-4059	15.6	190
309	Poly[(maleic anhydride)-alt-(vinyl acetate)]: A Pure Oxygenic Nonconjugated Macromolecule with Strong Light Emission and Solvatochromic Effect. <i>Macromolecules</i> , 2015 , 48, 64-71	5.5	183
308	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		172
307	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	3.8	166

306	Luminescent Ions in Advanced Composite Materials for Multifunctional Applications. <i>Advanced Functional Materials</i> , 2016 , 26, 6330-6350	15.6	165
305	Solution-Processable Ultrathin Black Phosphorus as an Effective Electron Transport Layer in Organic Photovoltaics. <i>Advanced Functional Materials</i> , 2016 , 26, 864-871	15.6	157
304	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		156
303	Environmentally Friendly Hydrogel-Based Triboelectric Nanogenerators for Versatile Energy Harvesting and Self-Powered Sensors. <i>Advanced Energy Materials</i> , 2017 , 7, 1601529	21.8	147
302	Theranostic Carbon Dots with Innovative NIR-II Emission for in Vivo Renal-Excreted Optical Imaging and Photothermal Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4737-4744	9.5	146
301	Room-temperature ferroelectricity in MoTe down to the atomic monolayer limit. <i>Nature Communications</i> , 2019 , 10, 1775	17.4	143
300	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		141
299	Ultrasensitive Detection of Ebola Virus Oligonucleotide Based on Upconversion Nanoprobe/Nanoporous Membrane System. <i>ACS Nano</i> , 2016 , 10, 598-605	16.7	137
298	Effects of site substitutions and concentration on upconversion luminescence of Er(3+)-doped perovskite titanate. <i>Optics Express</i> , 2011 , 19, 1824-9	3.3	132
297	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, 7472-7	24	130
296	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	16.7	129
295	Upconversion luminescence resonance energy transfer (LRET)-based biosensor for rapid and ultrasensitive detection of avian influenza virus H7 subtype. <i>Small</i> , 2014 , 10, 2390-7	11	126
294	Piezo-phototronic effect-induced dual-mode light and ultrasound emissions from ZnS:Mn/PMN-PT thin-film structures. <i>Advanced Materials</i> , 2012 , 24, 1729-35	24	125
293	Layer-dependent nonlinear optical properties and stability of non-centrosymmetric modification in few-layer GaSe sheets. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 1185-9	16.4	124
292	Water-soluble mitochondria-specific ytterbium complex with impressive NIR emission. <i>Journal of the American Chemical Society</i> , 2011 , 133, 20120-2	16.4	124
291	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	15.6	120
290	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	3.8	119
289	Magnetic and luminescent properties of multifunctional GdF ₃ :Eu ³⁺ nanoparticles. <i>Applied Physics Letters</i> , 2009 , 95, 022512	3.4	116

288	Cathodoluminescence of rare-earth-doped zinc aluminate films. <i>Thin Solid Films</i> , 2004 , 450, 334-340	2.2	115
287	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, 2934-41	15.6	113
286	Plasmonic enhancement and polarization dependence of nonlinear upconversion emissions from single gold nanorod@SiO ₂ @CaF ₂ :Yb,Er hybrid core-shell-satellite nanostructures. <i>Light: Science and Applications</i> , 2017 , 6, e16217	16.7	110
285	Tuning the Luminescence of Phosphors: Beyond Conventional Chemical Method. <i>Advanced Optical Materials</i> , 2015 , 3, 431-462	8.1	110
284	Magnetic-Assisted Noncontact Triboelectric Nanogenerator Converting Mechanical Energy into Electricity and Light Emissions. <i>Advanced Materials</i> , 2016 , 28, 2744-51	24	107
283	Ferroelectric and Piezoelectric Effects on the Optical Process in Advanced Materials and Devices. <i>Advanced Materials</i> , 2018 , 30, e1707007	24	107
282	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	15.6	106
281	Simultaneous synthesis and functionalization of water-soluble up-conversion nanoparticles for in-vitro cell and nude mouse imaging. <i>Nanoscale</i> , 2011 , 3, 2175-81	7.7	105
280	Optical and luminescent properties of undoped and rare-earth-doped Ga ₂ O ₃ thin films deposited by spray pyrolysis. <i>Journal Physics D: Applied Physics</i> , 2002 , 35, 433-438	3	104
279	Oxide Thin Films for Tunable Microwave Devices 2000 , 4, 393-405		102
278	Magnetic-Induced Luminescence from Flexible Composite Laminates by Coupling Magnetic Field to Piezophotonic Effect. <i>Advanced Materials</i> , 2015 , 27, 4488-4495	24	100
277	Towards pure near-infrared to near-infrared upconversion of multifunctional GdF ₃ :Yb(3+),Tm(3+) nanoparticles. <i>Optics Express</i> , 2010 , 18, 6123-30	3.3	100
276	Metal-ion doped luminescent thin films for optoelectronic applications. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 5607	7.1	97
275	Highly efficient low-voltage cathodoluminescence of LaF ₃ :Ln ³⁺ (Ln=Eu ³⁺ ,Ce ³⁺ ,Tb ³⁺) spherical particles. <i>Applied Physics Letters</i> , 2008 , 93, 141106	3.4	92
274	Dual-modal fluorescent/magnetic bioprobes based on small sized upconversion nanoparticles of amine-functionalized BaGdF ₅ :Yb/Er. <i>Nanoscale</i> , 2012 , 4, 5118-24	7.7	91
273	Thermal assisted oxygen annealing for high efficiency planar CH _{3NH₃PbI₃} perovskite solar cells. <i>Scientific Reports</i> , 2014 , 4, 6752	4.9	88
272	Electric-Induced Enhancement and Modulation of Upconversion Photoluminescence in Epitaxial BaTiO ₃ :Yb/Er Thin Films. <i>Angewandte Chemie</i> , 2011 , 123, 7008-7012	3.6	87
271	Progress in pulsed laser deposited two-dimensional layered materials for device applications. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 8859-8878	7.1	86

270	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	7.1	85
269	Luminescence of ZnWO ₄ and CdWO ₄ thin films prepared by spray pyrolysis. <i>Journal of Luminescence</i> , 2002 , 99, 349-354	3.8	85
268	Wind energy and blue energy harvesting based on magnetic-assisted noncontact triboelectric nanogenerator. <i>Nano Energy</i> , 2016 , 30, 36-42	17.1	85
267	In vitro cell imaging using multifunctional small sized KGdF ₄ :Yb ³⁺ ,Er ³⁺ upconverting nanoparticles synthesized by a one-pot solvothermal process. <i>Nanoscale</i> , 2013 , 5, 3465-73	7.7	82
266	Fully self-healing and shape-tailorable triboelectric nanogenerators based on healable polymer and magnetic-assisted electrode. <i>Nano Energy</i> , 2017 , 40, 399-407	17.1	82
265	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	15.6	81
264	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, 1863-8	11	81
263	White and green light emissions of flexible polymer composites under electric field and multiple strains. <i>Nano Energy</i> , 2015 , 14, 372-381	17.1	80
262	Lanthanide-Doped Energy Cascade Nanoparticles: Full Spectrum Emission by Single Wavelength Excitation. <i>Chemistry of Materials</i> , 2015 , 27, 3115-3120	9.6	80
261	Graphene-based hybrid structures combined with functional materials of ferroelectrics and semiconductors. <i>Nanoscale</i> , 2014 , 6, 6346-62	7.7	78
260	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	7.1	77
259	Above 1% efficiency of a ferroelectric solar cell based on the Pb(Zr,Ti)O ₃ film. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 1363-1368	13	77
258	Simultaneous synthesis and amine-functionalization of single-phase BaYF ₅ :Yb/Er nanoprobe for dual-modal in vivo upconversion fluorescence and long-lasting X-ray computed tomography imaging. <i>Nanoscale</i> , 2013 , 5, 6023-9	7.7	74
257	Site Occupancy and Near-Infrared Luminescence in Ca ₃ Ga ₂ Ge ₃ O ₁₂ : Cr ³⁺ Persistent Phosphor. <i>Advanced Optical Materials</i> , 2017 , 5, 1700227	8.1	73
256	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, 3922-4	3	73
255	Synergistic dual-modality in vivo upconversion luminescence/X-ray imaging and tracking of amine-functionalized NaYbF ₄ :Er nanoprobe. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 3839-46	9.5	70
254	Transient photoconductivity properties of tungsten oxide thin films prepared by spray pyrolysis. <i>Journal of Applied Physics</i> , 2001 , 90, 5064-5069	2.5	70
253	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	9.5	68

252	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, 4315-20	4.8	68
251	Colossal Permittivity Materials as Superior Dielectrics for Diverse Applications. <i>Advanced Functional Materials</i> , 2019 , 29, 1808118	15.6	67
250	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, 171910	3.4	66
249	Zwitterionic-Surfactant-Assisted Room-Temperature Coating of Efficient Perovskite Solar Cells. <i>Joule</i> , 2020 , 4, 2404-2425	27.8	65
248	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	17.1	65
247	Graphene/gallium arsenide-based Schottky junction solar cells. <i>Applied Physics Letters</i> , 2013 , 103, 233111	3.4	64
246	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	15.6	63
245	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, 24270-7	3.6	63
244	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	13	63
243	Electroluminescence of europium-doped gallium oxide thin films. <i>Thin Solid Films</i> , 2004 , 467, 182-185	2.2	62
242	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	3.4	61
241	2D transition metal dichalcogenides, carbides, nitrides, and their applications in supercapacitors and electrocatalytic hydrogen evolution reaction. <i>Applied Physics Reviews</i> , 2020 , 7, 021304	17.3	60
240	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	15.6	59
239	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	7.3	59
238	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	3.4	59
237	Dielectric properties of pulsed-laser-deposited calcium titanate thin films. <i>Applied Physics Letters</i> , 2000 , 76, 3100-3102	3.4	58
236	Temporal and Remote Tuning of Piezophotonic-Effect-Induced Luminescence and Color Gamut via Modulating Magnetic Field. <i>Advanced Materials</i> , 2017 , 29, 1701945	24	57
235	Centimeter-scale growth of two-dimensional layered high-mobility bismuth films by pulsed laser deposition. <i>Informa Materials</i> , 2019 , 1, 98-107	23.1	56

234	Recent Progress in 2D Layered III-V Semiconductors and their Heterostructures for Optoelectronic Device Applications. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900108	6.8	54
233	Green, blue, and yellow cathodoluminescence of Ba ₂ B ₅ O ₉ Cl thin-films doped with Tb ³⁺ , Tm ³⁺ , and Mn ²⁺ . <i>Applied Physics Letters</i> , 2003 , 82, 2224-2226	3.4	54
232	Abnormal reduction of Eu ions and luminescence in CaB ₂ O ₄ :Eu thin films. <i>Applied Physics Letters</i> , 2004 , 85, 3720-3722	3.4	53
231	A 980 nm laser-activated upconverted persistent probe for NIR-to-NIR rechargeable in vivo bioimaging. <i>Nanoscale</i> , 2017 , 9, 7276-7283	7.7	51
230	Improved Performance of Spherical BaWO ₄ :Tb ³⁺ Phosphors for Field-Emission Displays. <i>Journal of the Electrochemical Society</i> , 2009 , 156, J112	3.9	51
229	Interface structure and phase of epitaxial SrTiO ₃ (110) thin films grown directly on silicon. <i>Applied Physics Letters</i> , 2005 , 87, 131908	3.4	51
228	Strategies and progress on improving robustness and reliability of triboelectric nanogenerators. <i>Nano Energy</i> , 2019 , 55, 203-215	17.1	51
227	Color-tunable upconversion luminescence of Yb ³⁺ , Er ³⁺ , and Tm ³⁺ tri-doped ferroelectric BaTiO ₃ materials. <i>Journal of Applied Physics</i> , 2013 , 113, 184112	2.5	50
226	Lanthanide Yb/Er co-doped semiconductor layered WSe nanosheets with near-infrared luminescence at telecommunication wavelengths. <i>Nanoscale</i> , 2018 , 10, 9261-9267	7.7	49
225	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	7.1	49
224	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, 238-44	11.8	48
223	Observation of Room-Temperature Magnetoresistance in Monolayer MoS ₂ by Ferromagnetic Gating. <i>ACS Nano</i> , 2017 , 11, 6950-6958	16.7	48
222	Blue cathodoluminescence from Ba ₂ B ₅ O ₉ Cl:Eu phosphor thin films on glass substrates. <i>Applied Physics Letters</i> , 2002 , 81, 4154-4156	3.4	48
221	Luminescence in 2D Materials and van der Waals Heterostructures. <i>Advanced Optical Materials</i> , 2018 , 6, 1701296	8.1	45
220	Ferroelectric-Driven Performance Enhancement of Graphene Field-Effect Transistors Based on Vertical Tunneling Heterostructures. <i>Advanced Materials</i> , 2016 , 28, 10048-10054	24	45
219	Addressable and Color-Tunable Piezophotonic Light-Emitting Stripes. <i>Advanced Materials</i> , 2017 , 29, 16051465	16.5	44
218	Highly luminescent hydrogels synthesized by covalent grafting of lanthanide complexes onto PNIPAM via one-pot free radical polymerization. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 3195-3201	7.1	44
217	Ferroelectric Polarization Effects on the Transport Properties of Graphene/PMN-PT Field Effect Transistors. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 13747-13752	3.8	44

216	Effects of controllable biaxial strain on the Raman spectra of monolayer graphene prepared by chemical vapor deposition. <i>Applied Physics Letters</i> , 2013 , 102, 223112	3.4	43
215	Large-scale growth of few-layer two-dimensional black phosphorus. <i>Nature Materials</i> , 2021 , 20, 1203-1209		43
214	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	3.8	42
213	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	4.9	42
212	Deep ultraviolet photoconductive and near-infrared luminescence properties of Er ³⁺ -doped Ga ₂ O ₃ thin films. <i>Applied Physics Letters</i> , 2016 , 108, 211903	3.4	41
211	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, 032905	3.4	40
210	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	3.2	40
209	Recent Progress in Black-Phosphorus-Based Heterostructures for Device Applications. <i>Small Methods</i> , 2018 , 2, 1700296	12.8	39
208	A reduced graphene oxide-Au based electrochemical biosensor for ultrasensitive detection of enzymatic activity of botulinum neurotoxin A. <i>Sensors and Actuators B: Chemical</i> , 2015 , 220, 131-137	8.5	38
207	Fluoride-Free 2D Niobium Carbide MXenes as Stable and Biocompatible Nanoplatfoms for Electrochemical Biosensors with Ultrahigh Sensitivity. <i>Advanced Science</i> , 2020 , 7, 2001546	13.6	38
206	How do substituents affect silole emission?. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 5661	7.1	38
205	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	5.7	38
204	Environment-resisted flexible high performance triboelectric nanogenerators based on ultrafast self-healing non-drying conductive organohydrogel. <i>Nano Energy</i> , 2021 , 82, 105724	17.1	38
203	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, 29014-9	3.3	37
202	Dielectric loss and defect mode of SrTiO ₃ thin films under direct-current bias. <i>Applied Physics Letters</i> , 2001 , 78, 2754-2756	3.4	37
201	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	13.6	36
200	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	2.5	36
199	Multi-color luminescence of uniform CdWO ₄ nanorods through Eu ³⁺ ion doping. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 2865-2871	7.1	35

198	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	7.1	34
197	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		34
196	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	2.6	34
195	Multifunctional Crosslinking-Enabled Strain-Regulating Crystallization for Stable, Efficient FAPbI_3 -Based Perovskite Solar Cells. <i>Advanced Materials</i> , 2021 , 33, e2008487	24	34
194	Strategy to Enhance the Luminescence of Lanthanide Ions Doped MgWO Nanosheets through Incorporation of Carbon Dots. <i>Inorganic Chemistry</i> , 2018 , 57, 8662-8672	5.1	34
193	Multifunctional tunable ultra-broadband visible and near-infrared luminescence from bismuth-doped germanate glasses. <i>Journal of Applied Physics</i> , 2013 , 113, 083503	2.5	33
192	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	3.4	32
191	Layer-dependent photoresponse of 2D MoS ₂ films prepared by pulsed laser deposition. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 2522-2529	7.1	32
190	Piezophotonics: From fundamentals and materials to applications. <i>MRS Bulletin</i> , 2018 , 43, 965-969	3.2	32
189	Energy Device Applications of Synthesized 1D Polymer Nanomaterials. <i>Small</i> , 2017 , 13, 1701820	11	31
188	Aggregation-induced emission rotors: rational design and tunable stimuli response. <i>Chemistry - A European Journal</i> , 2015 , 21, 907-14	4.8	31
187	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	3.8	31
186	Upconversion luminescence of an insulator involving a band to band multiphoton excitation process. <i>Optics Express</i> , 2011 , 19, 11753-8	3.3	31
185	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, 042903	3.4	31
184	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	13	30
183	Transition Metal Doped Smart Glass with Pressure and Temperature Sensitive Luminescence. <i>Advanced Optical Materials</i> , 2018 , 6, 1800881	8.1	29
182	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, 16810-7	4.3	28
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