

Xiaojiao Kang

List of Publications by Year in descending order

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81
papers

6,453
citations

46918

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62479

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docs citations

82
times ranked

7538
citing authors

#	ARTICLE	IF	CITATIONS
1	A magnetic, luminescent and mesoporous core-shell structured composite material as drug carrier. <i>Biomaterials</i> , 2009, 30, 4786-4795.	5.7	354
2	Bioactive, luminescent and mesoporous europium-doped hydroxyapatite as a drug carrier. <i>Biomaterials</i> , 2008, 29, 4341-4347.	5.7	345
3	Room-temperature and gram-scale synthesis of CsPbX ₃ (X = Cl, Br, I) perovskite nanocrystals with 50%–85% photoluminescence quantum yields. <i>Chemical Communications</i> , 2016, 52, 7265-7268.	2.2	330
4	Up-Conversion Cell Imaging and pH-Induced Thermally Controlled Drug Release from NaYF ₄ :Yb ³⁺ /Er ³⁺ @Hydrogel Core-Shell Hybrid Microspheres. <i>ACS Nano</i> , 2012, 6, 3327-3338.	7.3	308
5	Ln ³⁺ (Ln = Eu, Dy, Sm, and Er) Ion-Doped YVO ₄ Nano/Microcrystals with Multifunctional Morphologies: Hydrothermal Synthesis, Growing Mechanism, and Luminescent Properties. <i>Inorganic Chemistry</i> , 2010, 49, 6706-6715.	1.9	234
6	Multifunctional Up-Conversion Nanocomposites with Smart Polymer Brushes Gated Mesopores for Cell Imaging and Thermo/pH Dual-Responsive Drug Controlled Release. <i>Advanced Functional Materials</i> , 2013, 23, 4067-4078.	7.8	209
7	Blue Emitting Ca ₈ La ₂ (PO ₄) ₆ O ₂ :Ce ³⁺ /Eu ²⁺ Phosphors with High Color Purity and Brightness for White LED: Soft-Chemical Synthesis, Luminescence, and Energy Transfer Properties. <i>Journal of Physical Chemistry C</i> , 2012, 116, 10222-10231.	1.5	208
8	Hollow structured upconversion luminescent NaYF ₄ :Yb ³⁺ , Er ³⁺ nanospheres for cell imaging and targeted anti-cancer drug delivery. <i>Biomaterials</i> , 2013, 34, 1601-1612.	5.7	195
9	Colloidal synthesis and remarkable enhancement of the upconversion luminescence of BaGdF ₅ :Yb ³⁺ /Er ³⁺ nanoparticles by active-shell modification. <i>Journal of Materials Chemistry</i> , 2011, 21, 5923.	6.7	187
10	Tunable Luminescence and Energy Transfer properties of Sr ₃ AlO ₄ F:RE ³⁺ (RE = Tm/Tb, Eu, Ce) Phosphors. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 2738-2746.	4.0	162
11	Core-Shell Structured Up-Conversion Luminescent and Mesoporous NaYF ₄ :Yb ³⁺ /Er ³⁺ @In ₂ O ₃ @SiO ₂ Nanospheres as Carriers for Drug Delivery. <i>Journal of Physical Chemistry C</i> , 2011, 115, 15801-15811.		152
12	Controllable and white upconversion luminescence in BaYF ₅ :Ln ³⁺ (Ln = Yb, Er). <i>Tj ETQq0.0 rgBT /Overlock 1</i>	6.7	148
13	Design and Synthesis of Multifunctional Drug Carriers Based on Luminescent Rattle-Type Mesoporous Silica Microspheres with a Thermosensitive Hydrogel as a Controlled Switch. <i>Advanced Functional Materials</i> , 2012, 22, 1470-1481.	7.8	148
14	Tunable luminescence in Ce ³⁺ , Mn ²⁺ -codoped calcium fluorapatite through combining emissions and modulation of excitation: a novel strategy to white light emission. <i>Journal of Materials Chemistry</i> , 2010, 20, 6674.	6.7	128
15	Hydrothermal Derived LaOF:Ln ³⁺ (Ln = Eu, Tb, Sm, Dy, Tm, and/or Ho) Nanocrystals with Multicolor-Tunable Emission Properties. <i>Inorganic Chemistry</i> , 2012, 51, 11106-11116.	1.9	128
16	Eu ³⁺ /Tb ³⁺ -Doped La ₂ O ₃ CO ₃ /La ₂ O ₃ Nano/Microcrystals with Multifunctional Morphologies: Facile Synthesis, Growth Mechanism, and Luminescence Properties. <i>Inorganic Chemistry</i> , 2010, 49, 10522-10535.	1.9	114
17	Gelatin-encapsulated iron oxide nanoparticles for platinum (IV) prodrug delivery, enzyme-stimulated release and MRI. <i>Biomaterials</i> , 2014, 35, 6359-6368.	5.7	111
18	Doxorubicin conjugated NaYF ₄ :Yb ³⁺ /Tm ³⁺ nanoparticles for therapy and sensing of drug delivery by luminescence resonance energy transfer. <i>Biomaterials</i> , 2012, 33, 8704-8713.	5.7	103

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19	Luminescence and Energy Transfer Properties of $\text{Ca}_2\text{Ba}_3(\text{PO}_4)_3\text{Cl}$ and $\text{Ca}_2\text{Ba}_3(\text{PO}_4)_3\text{Cl}:\text{A}$ (A = Tj ETQq1 1 0.784314 rgBT /Overlock10 Tf 50 102 Td (B... Electron Beam Excitation, Inorganic Chemistry, 2013, 52, 3102-3112.	10.7	102
20	Urchin-like GdPO_4 and $\text{GdPO}_4:\text{Eu}^{3+}$ hollow spheres $\hat{\text{e}}$ hydrothermal synthesis, luminescence and drug-delivery properties. <i>Journal of Materials Chemistry</i> , 2011, 21, 3686.	6.7	97
21	Poly(acrylic acid) modified lanthanide-doped GdVO_4 hollow spheres for up-conversion cell imaging, MRI and pH-dependent drug release. <i>Nanoscale</i> , 2013, 5, 253-261.	2.8	94
22	Luminescence and energy transfer properties of $\text{Ca}_8\text{Gd}_2(\text{PO}_4)_6\text{O}_2:\text{A}$ (A = $\text{Ce}^{3+}/\text{Eu}^{2+}/\text{Tb}^{3+}/\text{Dy}^{3+}/\text{Mn}^{2+}$) phosphors. <i>Journal of Materials Chemistry</i> , 2012, 22, 19094.	6.7	93
23	Room temperature synthesis of hydrophilic Ln^{3+} -doped KGdF_4 (Ln = Ce, Eu, Tb, Dy) nanoparticles with controllable size: energy transfer, size-dependent and color-tunable luminescence properties. <i>Nanoscale</i> , 2012, 4, 3450.	2.8	92
24	Size and shape controllable synthesis and luminescent properties of $\text{BaGdF}_5:\text{Ce}^{3+}/\text{Ln}^{3+}$ (Ln = Sm, Dy, Eu,) Tj ETQq1 1 0.784314 rgBT /Overlock 2.8 89	2.8	89
25	Facile synthesis of an up-conversion luminescent and mesoporous $\text{Gd}_2\text{O}_3:\text{Er}^{3+}/\text{SiO}_2/\text{mSiO}_2$ nanocomposite as a drug carrier. <i>Nanoscale</i> , 2011, 3, 661-667.	2.8	87
26	$(\text{Zn}, \text{Mg})_2\text{GeO}_4:\text{Mn}^{2+}$ submicrorods as promising green phosphors for field emission displays: hydrothermal synthesis and luminescence properties. <i>Dalton Transactions</i> , 2011, 40, 9379.	1.6	86
27	Rapid, Large-Scale, Morphology-Controllable Synthesis of $\text{YOF}:\text{Ln}^{3+}$ (Ln = Tb, Eu, Tm, Dy, Ho,) Tj ETQq1 1 0.784314 rgBT /Overlock 1.9 82	1.9	82
28	Full Color Emission in ZnGa_2O_4 : Simultaneous Control of the Spherical Morphology, Luminescent, and Electric Properties via Hydrothermal Approach. <i>Advanced Functional Materials</i> , 2014, 24, 6581-6593.	7.8	82
29	pH-responsive drug delivery system based on luminescent $\text{CaF}_2:\text{Ce}^{3+}/\text{Tb}^{3+}$ -poly(acrylic acid) hybrid microspheres. <i>Biomaterials</i> , 2012, 33, 2583-2592.	5.7	79
30	Fabrication of Hollow and Porous Structured $\text{GdVO}_4:\text{Dy}^{3+}$ Nanospheres as Anticancer Drug Carrier and MRI Contrast Agent. <i>Langmuir</i> , 2013, 29, 1286-1294.	1.6	78
31	Electrospinning-derived $\text{Tb}_2(\text{WO}_4)_3:\text{Eu}^{3+}$ nanowires: energy transfer and tunable luminescence properties. <i>Nanoscale</i> , 2011, 3, 1568.	2.8	76
32	Electrospun Upconversion Composite Fibers as Dual Drugs Delivery System with Individual Release Properties. <i>Langmuir</i> , 2013, 29, 9473-9482.	1.6	75
33	Luminescence properties of Mn^{2+} -doped $\text{Li}_2\text{ZnGeO}_4$ as an efficient green phosphor for field-emission displays with high color purity. <i>Dalton Transactions</i> , 2012, 41, 8861.	1.6	74
34	Large-scale synthesis of water-soluble $\text{CuInSe}_2/\text{ZnS}$ and $\text{AgInSe}_2/\text{ZnS}$ core/shell quantum dots. <i>Green Chemistry</i> , 2015, 17, 4482-4488.	4.6	71
35	Multiwalled Carbon Nanotubes and $\text{NaYF}_4:\text{Yb}^{3+}/\text{Er}^{3+}$ Nanoparticle-Doped Bilayer Hydrogel for Concurrent NIR-Triggered Drug Release and Up-Conversion Luminescence Tagging. <i>Langmuir</i> , 2013, 29, 9573-9580.	1.6	70
36	Tuning the Band Gap of $\text{Cu}_2\text{ZnSn}(\text{S},\text{Se})_4$ Thin Films via Lithium Alloying. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5308-5313.	4.0	68

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37	Synthesis of a Multifunctional Nanocomposite with Magnetic, Mesoporous, and Near-IR Absorption Properties. <i>Journal of Physical Chemistry C</i> , 2010, 114, 16343-16350.	1.5	67
38	LaOF ₂ :Eu ³⁺ nanocrystals: hydrothermal synthesis, white and color-tuning emission properties. <i>Dalton Transactions</i> , 2012, 41, 5571.	1.6	64
39	Highly uniform and monodisperse GdOF:Ln ³⁺ (Ln = Eu, Tb, Tm, Dy, Ho, Sm) microspheres: hydrothermal synthesis and tunable-luminescence properties. <i>Dalton Transactions</i> , 2013, 42, 14140.	1.6	58
40	Electrospinning preparation and drug delivery properties of Eu ³⁺ /Tb ³⁺ doped mesoporous bioactive glass nanofibers. <i>Journal of Colloid and Interface Science</i> , 2012, 387, 285-291.	5.0	56
41	One-Step Synthesis of Small-Sized and Water-Soluble NaREF ₄ Upconversion Nanoparticles for In Vitro Cell Imaging and Drug Delivery. <i>Chemistry - A European Journal</i> , 2013, 19, 2685-2694.	1.7	55
42	Warm White Light Emitting Diodes with Gelatin-Coated AgInS ₂ /ZnS Core/Shell Quantum Dots. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27713-27719.	4.0	55
43	Scaling up the Aqueous Synthesis of Visible Light Emitting Multinary AgInS ₂ /ZnS Core/Shell Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2015, 119, 7933-7940.	1.5	55
44	Homogeneous Synthesis and Electroluminescence Device of Highly Luminescent CsPbBr ₃ Perovskite Nanocrystals. <i>Inorganic Chemistry</i> , 2017, 56, 2596-2601.	1.9	55
45	Luminescent GdVO ₄ :Eu ³⁺ functionalized mesoporous silica nanoparticles for magnetic resonance imaging and drug delivery. <i>Dalton Transactions</i> , 2013, 42, 6523.	1.6	51
46	Preparation of luminescent and mesoporous Eu ³⁺ /Tb ³⁺ doped calcium silicate microspheres as drug carriers via a template route. <i>Dalton Transactions</i> , 2011, 40, 1873-1879.	1.6	48
47	In situ preparation and luminescent properties of LaPO ₄ :Ce ³⁺ , Tb ³⁺ nanoparticles and transparent LaPO ₄ :Ce ³⁺ , Tb ³⁺ /PMMA nanocomposite. <i>Journal of Colloid and Interface Science</i> , 2009, 336, 46-50.	5.0	47
48	Gram-Scale Synthesis of Hydrophilic PEI-Coated AgInS ₂ Quantum Dots and Its Application in Hydrogen Peroxide/Glucose Detection and Cell Imaging. <i>Inorganic Chemistry</i> , 2017, 56, 6122-6130.	1.9	47
49	Platinum (IV) Pro-Drug Conjugated NaYF ₄ :Yb ³⁺ /Er ³⁺ Nanoparticles for Targeted Drug Delivery and Up-Conversion Cell Imaging. <i>Advanced Healthcare Materials</i> , 2013, 2, 562-567.	3.9	45
50	Self-templated and self-assembled synthesis of nano/microstructures of Gd-based rare-earth compounds: morphology control, magnetic and luminescence properties. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 11315.	1.3	44
51	Rattle-type hollow CaWO ₄ :Tb ³⁺ @SiO ₂ nanocapsules as carriers for drug delivery. <i>Dalton Transactions</i> , 2011, 40, 12818.	1.6	41
52	PVP-coated gold nanoparticles for the selective determination of ochratoxin A via quenching fluorescence of the free aptamer. <i>Food Chemistry</i> , 2018, 249, 45-50.	4.2	41
53	Facile and Low-Cost Sodium-Doping Method for High-Efficiency Cu ₂ ZnSnSe ₄ Thin Film Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22797-22802.	1.5	40
54	A general water-based precursor solution approach to deposit earth abundant Cu ₂ ZnSn(S,Se) ₄ thin film solar cells. <i>Journal of Power Sources</i> , 2016, 313, 15-20.	4.0	40

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55	Fluorometric aptamer assay for ochratoxin A based on the use of single walled carbon nanohorns and exonuclease III-aided amplification. <i>Mikrochimica Acta</i> , 2018, 185, 27.	2.5	39
56	Synthesis of $\text{Li}_1-x\text{Na}_x\text{YF}_4:\text{Yb}^{3+}/\text{Ln}^{3+}$ ($0 \leq x \leq 0.3$, Ln = Er, Tm, Ho) nanocrystals with multicolor up-conversion luminescence properties for in vitro cell imaging. <i>Journal of Materials Chemistry</i> , 2012, 22, 20618.	6.7	36
57	Morphology control and multicolor up-conversion luminescence of $\text{GdOF}:\text{Yb}^{3+}/\text{Er}^{3+}$, Tm^{3+} , Ho^{3+} nano/submicrocrystals. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10779.	1.3	32
58	Fluorometric aptamer based assay for ochratoxin A based on the use of exonuclease III. <i>Mikrochimica Acta</i> , 2018, 185, 254.	2.5	31
59	Core-shell structured luminescent and mesoporous $\text{NaYF}_4:\text{Ce}^{3+}/\text{Tb}^{3+}@m\text{SiO}_2\text{-PEG}$ nanospheres for anti-cancer drug delivery. <i>Dalton Transactions</i> , 2013, 42, 9852.	1.6	30
60	Tricolor- and White Light-Emitting $\text{Ce}^{3+}/\text{Tb}^{3+}/\text{Mn}^{2+}$ -Coactivated $\text{Li}_2\text{Ca}_4\text{Si}_4\text{O}_{13}$ Phosphor via Energy Transfer. <i>ACS Omega</i> , 2018, 3, 16714-16720.	1.6	29
61	The fabrication of one-dimensional $\text{Ca}_4\text{Y}_6(\text{SiO}_4)_6\text{O}:\text{Ln}^{3+}$ (Ln = Eu, Tb) phosphors by electrospinning method and their luminescence properties. <i>Journal of Colloid and Interface Science</i> , 2011, 355, 89-95.	5.0	26
62	Synthesis and Luminescent Properties of $\text{Li}_3\text{Ba}_2\text{Y}_3(\text{MoO}_4)_8:\text{Ln}^{3+}$ (Ln = Eu, Tb, Dy) Phosphors for UV-LEDs. <i>Journal of the Electrochemical Society</i> , 2011, 158, H565.	1.3	26
63	Facile fabrication of water-soluble Ln^{3+} -doped NaGdF_4 nanocrystals (Ln = Ce, Tb, Eu, Dy) with multicolor luminescence and magnetic properties. <i>Materials Research Bulletin</i> , 2013, 48, 2843-2849.	2.7	23
64	Red Emitting $\text{Ca}_2\text{GeO}_4:\text{Eu}^{3+}$ Phosphors for Field Emission Displays. <i>Journal of the Electrochemical Society</i> , 2011, 158, J125.	1.3	22
65	Lanthanide-doped hollow nanomaterials as theranostic agents. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2014, 6, 80-101.	3.3	22
66	Significant enhancement in dielectric constant of polyimide thin films by doping zirconia nanocrystals. <i>Materials Letters</i> , 2015, 148, 22-25.	1.3	21
67	High color rendering index warm white light emitting diodes fabricated from $\text{AgInS}_2/\text{ZnS}$ quantum dot/PVA flexible hybrid films. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 31634-31639.	1.3	21
68	Tunable full-color emitting $\text{Na}_2\text{Ba}_6(\text{Si}_2\text{O}_7)(\text{SiO}_4)_2:\text{Ce}^{3+},\text{Eu}^{2+},\text{Tb}^{3+},\text{Mn}^{2+}$ phosphor for UV white LEDs: Photoluminescence and energy transfer. <i>Journal of Alloys and Compounds</i> , 2018, 752, 231-237.	2.8	21
69	Multicolor-tunable up-conversion emissions of $\text{Yb}^{3+},\text{Er}^{3+}/\text{Ho}^{3+}$ co-doped $\text{Ba}_3\text{Lu}_2\text{Zn}_5\text{O}_{11}$: crystal structure, luminescence and energy transfer properties. <i>Dalton Transactions</i> , 2019, 48, 2917-2925.	1.6	15
70	Energy Transfer from Ce^{3+} to $\text{Tb}^{3+}/\text{Dy}^{3+}/\text{Mn}^{2+}$ in $\text{Ca}_9\text{Ga}(\text{PO}_4)_7$ Phosphors: Synthesis, Structure and Tunable Multicolor Luminescent Properties. <i>ChemPhysChem</i> , 2019, 20, 861-867.	1.0	13
71	Luminescent $\text{LaF}_3:\text{Yb}^{3+}/\text{Er}^{3+}$ crystals with self-assembling microstructures by a facile ionothermal process. <i>CrystEngComm</i> , 2014, 16, 1056-1063.	1.3	12
72	Short-chain ligand assisted synthesis of $\text{CH}_3\text{NH}_3\text{PbX}_3$ (X = Cl, Br, I) perovskite quantum dots and improved morphology of $\text{CH}_3\text{NH}_3\text{PbBr}_3$ thin films. <i>Journal of Luminescence</i> , 2019, 211, 26-31.	1.5	12

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73	Fabrication and Luminescence Properties of Ca ₂ RE ₈ (SiO ₄) ₆ O ₂ : Pb ²⁺ , Dy ³⁺ (RE=La, Y, Gd) One-dimensional Phosphors by Electrospinning Method. Journal of the Electrochemical Society, 2011, 158, J208.	1.3	9
74	Temperature-dependent photoluminescence of cadmium-free Cu ²⁺ /Zn ²⁺ /In ³⁺ S quantum dot thin films as temperature probes. Dalton Transactions, 2015, 44, 20763-20768.	1.6	8
75	Near UV based LED fabricated with K ₂ Ba ₃ Si ₈ O ₂₀ :Eu ²⁺ and energy transfer between Ce ³⁺ and Eu ²⁺ . Materials Research Bulletin, 2018, 108, 46-50.	2.7	8
76	Multifunctional Pr ³⁺ single doped CaLaMgTaO ₆ : Crystal structure, thermal behavior and applications. Journal of Alloys and Compounds, 2021, 879, 160424.	2.8	8
77	Drug Delivery: Multifunctional Up-Converting Nanocomposites with Smart Polymer Brushes Gated Mesopores for Cell Imaging and Thermo/pH Dual-Responsive Drug Controlled Release (Adv. Funct. Mater. 2012, 22, 1539-1539).	7.8	4
78	Drug Delivery: Design and Synthesis of Multifunctional Drug Carriers Based on Luminescent Rattle-Type Mesoporous Silica Microspheres with a Thermosensitive Hydrogel as a Controlled Switch (Adv. Funct. Mater. 2012, 22, 1539-1539).	7.8	4
79	Generating green and yellow lines in Y ₆ Si ₃ O ₉ N ₄ :Ce ³⁺ ,Tb ³⁺ /Dy ³⁺ oxynitrides phosphor. Journal of Luminescence, 2019, 213, 297-303.	1.5	4
80	Drug Delivery: Platinum (IV) Pro-Drug Conjugated NaYF ₄ :Yb ³⁺ /Er ³⁺ Nanoparticles for Targeted Drug Delivery and Up-Conversion Cell Imaging (Adv. Healthcare Mater. 4/2013). Advanced Healthcare Materials, 2013, 2, 514-514.	3.9	3
81	Nanospheres: Full Color Emission in ZnGa ₂ O ₄ : Simultaneous Control of the Spherical Morphology, Luminescent, and Electric Properties via Hydrothermal Approach (Adv. Funct. Mater. 2012, 22, 1539-1539).	7.8	4