

Sen Liao

List of Publications by Year in descending order

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84
papers

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394421

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all docs

85
docs citations

85
times ranked

921
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal degradation kinetics study of curcumin with nonlinear methods. <i>Food Chemistry</i> , 2014, 155, 81-86.	8.2	90
2	Self-Assembly of Luminescent Hexanuclear Lanthanide Salen Complexes. <i>Crystal Growth and Design</i> , 2012, 12, 970-974.	3.0	71
3	Near-UV light excited Eu ³⁺ , Tb ³⁺ , Bi ³⁺ co-doped LaPO ₄ phosphors: Synthesis and enhancement of red emission for WLEDs. <i>Ceramics International</i> , 2015, 41, 5525-5530.	4.8	36
4	Nonisothermal Kinetic Study: IV. Comparative Methods To Evaluate E_a for Thermal Decomposition of $KZn_2(PO_4)_4(HPO_4)_4$ Synthesized by a Simple Route. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 8985-8991.	3.7	32
5	Grinding kinetics of waste glass powder and its composite effect as pozzolanic admixture in cement concrete. <i>Construction and Building Materials</i> , 2020, 239, 117876.	7.2	32
6	Application of isoconversional calculation procedure to non-isothermal kinetic study: III. Thermal decomposition of ammonium cobalt phosphate hydrate. <i>Thermochimica Acta</i> , 2012, 543, 205-210.	2.7	28
7	High luminescent thermal stability and water resistance of K ₂ SiF ₆ :Mn ⁴⁺ @CaF ₂ red emitting phosphor. <i>Ceramics International</i> , 2021, 47, 33172-33179.	4.8	26
8	Nonisothermal Kinetics Study with Isoconversional Procedure and DAEM: LiCoPO ₄ Synthesized from Thermal Decomposition of the Precursor. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 1870-1876.	3.7	25
9	Na ⁺ induced electric-dipole dominated transition ($^5D_0 \rightarrow ^7F_2$) of Eu ³⁺ emission in AMgPO ₄ :Eu ³⁺ (A=Li ⁺) T_j ETQq _{1,2,6} 0.7843 ₂₅ 1.4 rgBT		
10	Preparation of nanocrystalline BiFeO ₃ via a simple and novel method and its kinetics of crystallization. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 107, 625-632.	3.6	24
11	Novel emission bands of Na ₂ TiF ₆ :Mn ⁴⁺ phosphors induced by the cation exchange method. <i>Ceramics International</i> , 2019, 45, 6243-6249.	4.8	24
12	Concentration and separation of vanadium from alkaline media by strong alkaline anion-exchange resin 717. <i>Rare Metals</i> , 2010, 29, 439-443.	7.1	23
13	Products and non-isothermal kinetics of thermal decomposition of MgFe ₂ (C ₂ O ₄) ₃ ·6H ₂ O. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 110, 781-787.	3.6	23
14	Facile synthesis of hydrotalcite and its thermal decomposition kinetics mechanism study with masterplots method. <i>Thermochimica Acta</i> , 2014, 579, 50-55.	2.7	22
15	Preparation of new sunscreen materials Ce ^{1-x} Zn ^x O ₂ via solid-state reaction at room temperature and study on their properties. <i>Rare Metals</i> , 2010, 29, 149-153.	7.1	21
16	Kinetics and thermodynamics of thermal decomposition of NH ₄ NiPO ₄ ·6H ₂ O. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 103, 805-812.	3.6	21
17	Preparation of LiZnPO ₄ ·H ₂ O via a novel modified method and its non-isothermal kinetics and thermodynamics of thermal decomposition. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 108, 1235-1242.	3.6	21
18	K ₂ SiF ₆ :Mn ⁴⁺ @K ₂ SiF ₆ phosphor with remarkable negative thermal quenching and high water resistance for warm white LEDs. <i>Journal of Luminescence</i> , 2021, 234, 117968.	3.1	21

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19	The dual charge compensation effect of Na ⁺ ions on the luminescence behavior of red phosphor NaMgPO ₄ :Eu ³⁺ . <i>Materials Letters</i> , 2015, 160, 436-439.	2.6	20
20	Nanocrystalline Zn _{0.5} Ni _{0.5} Fe ₂ O ₄ . <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 110, 1143-1151.	3.6	19
21	Preparation of nanocrystalline LiMnPO ₄ via a simple and novel method and its isothermal kinetics of crystallization. <i>Journal of Materials Science</i> , 2011, 46, 2474-2478.	3.7	18
22	Preparation of LiZn _{0.9} PO ₄ :Mn _{0.1} ·H ₂ O via a simple and novel method and its non-isothermal kinetics using iso-conversional calculation procedure. <i>Thermochimica Acta</i> , 2012, 533, 74-80.	2.7	18
23	LaPO ₄ : Ce, Tb, Yb phosphor synthesis and kinetics study for thermal process of precursor by Vyazovkin, OFW, KAS, Starink, and Mastplosts methods. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 120, 1635-1643.	3.6	18
24	Novel luminescence enhancement and splitting of excitation and emission bands of Na ₂ SiF ₆ :Mn ⁴⁺ , Li ⁺ phosphors induced by Li ⁺ co-doping. <i>Journal of Luminescence</i> , 2020, 217, 116770.	3.1	18
25	Preparation of nano-sized cerium and titanium pyrophosphates via solid-state reaction at room temperature. <i>Rare Metals</i> , 2009, 28, 33-38.	7.1	17
26	Novel Method for Preparing NH ₄ NiPO ₄ ·6H ₂ O: Hydrogen Bonding Coacervate Selective Self-assembly. <i>Chinese Journal of Chemistry</i> , 2010, 28, 2389-2393.	4.9	17
27	Application of isoconversional calculation procedure to non-isothermal kinetics study. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 111, 313-321.	3.6	17
28	A novel orange emissive phosphor LaPO ₄ :Bi, Sm with sharp and splitting emission peaks of Sm ³⁺ . <i>Materials Letters</i> , 2014, 123, 112-115.	2.6	17
29	Cation exchange synthesis and cations doped effects of red-emitting phosphors K ₂ TiF ₆ :Mn ⁴⁺ , M ₂ ⁺ (M ²⁺ =Mg, Ca, Sr, Ba, and Zn). <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 11878-11885. ^{2,2}		17
30	Improvement of the luminescent thermal stability and water resistance of K ₂ SiF ₆ :Mn ⁴⁺ by surface passivation. <i>Ceramics International</i> , 2022, 48, 17253-17260.	4.8	17
31	Selective self-assembly synthesis of MnV ₂ O ₆ ·4H ₂ O with controlled morphologies and study on its thermal decomposition. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 109, 163-169.	3.6	16
32	Enhanced photoluminescence and energy transfer in the novel red emitting phosphors SrZn ₂ (PO ₄) ₂ :Eu ³⁺ , Tb ³⁺ , Li ⁺ . <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 657-660.	2.2	15
33	H ₂ O ₂ -free preparation of K ₂ SiF ₆ :Mn ⁴⁺ and remarkable high luminescent thermal stability induced by coating with graphene quantum dots. <i>Materials Chemistry and Physics</i> , 2021, 260, 124149.	4.0	15
34	Preparation of Magnetic Cu _{0.5} Mg _{0.5} Fe ₂ O ₄ Nanoparticles and Kinetics of Thermal Process of Precursor. <i>Journal of Superconductivity and Novel Magnetism</i> , 2012, 25, 1971-1977.	1.8	14
35	Preparation of magnetic nanocrystalline Mn _{0.5} Mg _{0.5} Fe ₂ O ₄ and kinetics of thermal decomposition of precursor. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 114, 205-212.	3.6	14
36	NaF induced enhancement of luminous efficiency in narrow-band red-emitting K ₂ TiF ₆ :Mn ⁴⁺ @NaF phosphors. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 12536-12542.	2.2	14

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37	High Water Resistance and Luminescent Thermal Stability of $\text{Li}_x\text{Na}_{(2-x)}\text{SiF}_6\text{:Mn}^{4+}$ Red-Emitting Phosphor Induced by Codoping of Li^+ . <i>Inorganic Chemistry</i> , 2022, 61, 5484-5494.	4.0	14
38	A Simple and Novel Route for The Preparation of Chiral Sodium Zincophosphate. <i>Chinese Journal of Chemistry</i> , 2008, 26, 281-285.	4.9	13
39	Synthesis and Regulation between $\text{Na}(\text{ZnPO}_4)_2$ and $\text{Ca}_3\text{P}_2\text{O}_7$ Hopeite via a Solid State Reaction at Low Heating Temperatures. <i>Chinese Journal of Chemistry</i> , 2008, 26, 1837-1842.	4.9	13
40	Strain-Induced Enhancement of Eu^{3+} Emission in Red Phosphor $\text{NaMgPO}_4\text{:Eu}^{3+}$, Al^{3+} . <i>Journal of Electronic Materials</i> , 2017, 46, 911-916.	2.2	13
41	Significant enhancement and broadening of excitation bands of $\text{K}_2\text{SiF}_6\text{:Mn}^{4+}$, NH_4^+ phosphors induced by NH_4^+ . <i>Materials Research Bulletin</i> , 2020, 121, 110622.	5.2	13
42	Effects of graphene quantum dots coating on the luminescence properties of $\text{K}_2\text{SiF}_6\text{:Mn}^{4+}$ red-emitting phosphors. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 444-456.	2.2	13
43	Enhancement of the luminescent thermal stability and water resistance of $\text{K}_2\text{SiF}_6\text{:Mn}^{4+}$, Na^+ by double coating of QDs and K_2SiF_6 . <i>Journal of Alloys and Compounds</i> , 2022, 898, 162819.	5.5	13
44	An organic-inorganic hybrid $\text{K}_2\text{TiF}_6\text{:Mn}^{4+}$ red-emitting phosphor with remarkable improvement of emission and luminescent thermal stability. <i>RSC Advances</i> , 2022, 12, 3788-3795.	3.6	13
45	Magnetic Properties of $\text{Cu}_0.48\text{Ni}_0.52\text{Fe}_2\text{O}_4$ and Thermal Process of Precursor. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 2153-2158.	1.8	12
46	Synthesis, luminescence properties and nephelauxetic effect of nano stick phosphors $\text{K}_3\text{AlF}_6\text{:Mn}^{4+}$ for warm white LED. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 1870-1877.	2.2	12
47	Enhancement of the luminescent thermal stability and water resistance of $\text{K}_2\text{TiF}_6\text{:Mn}^{4+}$ by organic inorganic hybrid matrix and surface passivation. <i>Journal of Luminescence</i> , 2022, 247, 118885.	3.1	12
48	Synthesis of Layered Sodium Manganese Phosphate via Low Heating Solid State Reaction and Its Properties. <i>Chinese Journal of Chemistry</i> , 2010, 28, 2394-2398.	4.9	11
49	A facile surface passivation strategy for $\text{Na}_2\text{SiF}_6\text{:Mn}^{4+}$, Li^+ phosphors to achieve high moisture resistance and luminescent thermal stability. <i>Journal of Luminescence</i> , 2022, 243, 118643.	3.1	11
50	Magnetic properties and crystallization kinetics of $\text{Zn}_0.5\text{Ni}_0.5\text{Fe}_2\text{O}_4$. <i>Rare Metals</i> , 2011, 30, 621-626.	7.1	10
51	Improvement in luminescent properties and thermo-optical conversion mechanism of $\text{Na}_2\text{SiF}_6\text{:Mn}^{4+}$, K^+ @ QDs. <i>RSC Advances</i> , 2021, 11, 23023-23035.	3.6	10
52	The formation of KF induced red-emitting phosphors $\text{K}_2\text{TiF}_6 \cdot \text{BaF}_2\text{:Mn}^{4+}$ by cation exchange. <i>Journal of Luminescence</i> , 2017, 188, 307-312.	3.1	9
53	Non-isothermal kinetics of thermal decomposition of $\text{NH}_4\text{ZrH}(\text{PO}_4)_2 \cdot \text{H}_2\text{O}$. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 104, 685-691.	3.6	8
54	Non-isothermal kinetics study with isoconversional procedure and DAEM: Thermal decomposition of $\text{LaPO}_4\text{:Ce,Tb} \cdot 0.5\text{H}_2\text{O}$. <i>Materials Chemistry and Physics</i> , 2013, 142, 453-458.	4.0	8

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55	Coating synthesis and enhanced photoluminescence of NaCl@LiLa(MoO ₄) ₂ :Eu ³⁺ . Materials Letters, 2017, 208, 77-81.	2.6	8
56	Water resistance, thermal stability, luminescence enhancement of core-double shell structure K ₂ TiF ₆ :Mn ⁴⁺ phosphor. Journal of Luminescence, 2022, 244, 118728.	3.1	8
57	Synthesis and regulation of Li ⁺ -LiZnPO ₄ ·H ₂ O via a solid-state reaction at low-heating temperatures. Materials Research Bulletin, 2009, 44, 1428-1431.	5.2	7
58	Nanocrystalline LiMn ₂ O ₄ preparation and kinetics of thermal process of precursor. Journal of Thermal Analysis and Calorimetry, 2013, 112, 1391-1399.	3.6	7
59	Magnetic Nanocrystalline Mg _{0.5} Zn _{0.5} Fe ₂ O ₄ : Preparation, Morphology Evolution, and Kinetics of Thermal Decomposition of Precursor. Journal of Superconductivity and Novel Magnetism, 2014, 27, 511-518.	1.8	7
60	Simple coating synthesis and enhanced luminescence behaviour of LiLa(MoO ₄) ₂ :Eu ³⁺ @NaF. Materials Research Bulletin, 2018, 103, 181-185.	5.2	7
61	Conversion of thermal energy to light energy and energy transfer in KGdF ₄ : Eu ³⁺ , Tb ³⁺ phosphors. Inorganic Chemistry Communication, 2021, 127, 108549.	3.9	7
62	Selective Synthesis of a Hexagonal Co(II)-Substituted Sodium Zincophosphate via a Simple and Novel Route. Chinese Journal of Chemistry, 2010, 28, 50-54.	4.9	6
63	Synthesis of Spinel MnCo ₂ O ₄ by Thermal Decomposition of Carbonates and Kinetics of Thermal Decomposition of Precursor. Journal of Superconductivity and Novel Magnetism, 2014, 27, 1249-1256.	1.8	6
64	Nonisothermal kinetics study with advanced isoconversional procedure and DAEM. Journal of Thermal Analysis and Calorimetry, 2014, 115, 237-245.	3.6	6
65	Thermochemical Study on the Chiral Sodium Zincophosphate Nanocrystalline. Chinese Journal of Chemistry, 2006, 24, 453-456.	4.9	5
66	Preparation of Ammonium Cerium Phosphate via Low-temperature Solid State Reaction and Its Catalysis for Benzyl Acetate Synthesis. Chinese Journal of Chemistry, 2010, 28, 378-382.	4.9	5
67	Nanocrystalline ZrO ₂ preparation and kinetics research of phase transition. Rare Metals, 2012, 31, 51-57.	7.1	5
68	Application of simplified version of advanced isoconversional procedure in non-isothermal kinetic study. Journal of Thermal Analysis and Calorimetry, 2013, 113, 649-657.	3.6	5
69	Synthesis of CeO ₂ by thermal decomposition of oxalate and kinetics of thermal decomposition of precursor. Journal of Thermal Analysis and Calorimetry, 2014, 117, 499-506.	3.6	5
70	Synthesis of a new phosphor (LaPO ₄ :Ce, Li, Mn) and kinetics study for thermal process of its precursor. Advanced Powder Technology, 2015, 26, 861-867.	4.1	5
71	Enhancement of zero phonon line for Na ₂ TiF ₆ :Mn ⁴⁺ , Li ⁺ phosphors induced by Li ⁺ . Journal of Materials Science: Materials in Electronics, 2019, 30, 14646-14656.	2.2	5
72	Synthesis of (La _{0.8} Y _{0.2})PO ₄ : Sm ³⁺ , Eu ³⁺ , Na ⁺ and kinetics mechanism study with Z(1±) master plots method for thermal process of its precursor. Journal of Thermal Analysis and Calorimetry, 2019, 136, 2487-2494.	3.6	5

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73	Eu ³⁺ , Sm ³⁺ Co-Doped La _{0.8} Y _{0.2} PO ₄ : A Novel and Potential Red-Emitting Phosphor for UV-Based White Light-Emitting Diodes. <i>Science of Advanced Materials</i> , 2016, 8, 1093-1100.	0.7	4
74	Synthesis of Nano-Lamellar KZnPO ₄ via Solid-State Reaction and its Data Mining Technology. <i>Integrated Ferroelectrics</i> , 2013, 147, 78-84.	0.7	3
75	Synthesis of Perovskite Pr _{1.1} MnO _{3.15} and Phase Evolution and Magnetic Properties. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014, 27, 2751-2756.	1.8	2
76	A novel energy transfer inducing strong enhancement of electric dipole transition in Na ₃ Mo ₁₂ PO ₄₀ :Eu ³⁺ phosphors. <i>Materials Research Express</i> , 2017, 4, 086305.	1.6	2
77	Synthesis of Gd(III)-MOF: Dy ³⁺ phosphor and kinetics study of its thermal decomposition. <i>Journal of Thermal Analysis and Calorimetry</i> , 0, , 1.	3.6	2
78	Negative thermal quenching of K ₃ AlF ₆ :Mn ⁴⁺ @GQDs phosphors caused by enhancement of the conversion of heat energy into light energy. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 26384-26396.	2.2	2
79	A new type of zero thermal quenching red emitting phosphor \hat{I}^2 -NaYF ₄ :Eu ³⁺ for NUV LEDs. <i>Journal of Solid State Chemistry</i> , 2022, , 123099.	2.9	2
80	Novel splitting of excitation and emission spectra of K ₂ TiF ₆ :Mn ⁴⁺ phosphors induced by graphene quantum dots. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 485-495.	2.2	1
81	Formation and enhancement of negative thermal quenching in emission of KGdF ₄ :Eu ³⁺ , Yb ³⁺ @GQDs. <i>RSC Advances</i> , 2021, 11, 36222-36229.	3.6	1
82	Preparation and ultraviolet-visible ray transmission property of nanocrystalline InPO ₄ . <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 115, 1705-1709.	3.6	0
83	Standard Molar Formation Enthalpy of NH ₄ Fe(HPO ₄) ₂ . <i>Integrated Ferroelectrics</i> , 2014, 154, 89-96.	0.7	0
84	Kinetics Study with Rigorous Nonlinear Methods for Thermal Decomposition of Polysaccharide Iron Complex. <i>Food Biophysics</i> , 2014, 9, 277-284.	3.0	0